

OPERATOR MANUAL

Seaming machine + filler



MODEL: **2000/2L+MICROBREW**
RS10 SERIAL Nr.: **M9946**
CUSTOMER: **HOYNE BREWING CO.**



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MANUFACTURER:	CFT Packaging S.p.A.
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1.1 INTRODUCTION

General information

This manual is intended as a guide for the correct and safe use of the machine's operator panel. Every observation in this booklet is an important contribution for improving the services that CFT Packaging S.p.A. offers to its clients.

In this manual you will find all the information necessary for the correct use of the operator panel. You must therefore carefully read this manual before any type of operation.

The manual is an integral part of the system, and must be saved for the entire duration of its operation and must go with it in any property transfer; and for this it is recommended that it be placed in a safe and protected place, far from all that can cause its rapid deterioration.

A good policy is to keep a copy of the manual close to the machine, for quick reference, and another copy in a sealed and protected place.

This manual provides the operator with all the explanations concerning the operation, the electric and electronic maintenance of the machine mentioned on the cover.

This literature does not provide any information concerning mechanic or pneumatic operations. You can find information about the machine mentioned on the cover in the (mechanic) instruction and maintenance handbook herewith enclosed.

Addressees

This manual is intended for operators appointed to the operating use of the machine.

Validity of documentation

The maximum duration of validity of this documentation is 10 years, unless significant alterations are made to the machine, or system, that require a new updated version. At the end of the ten-year period, ownership of this documentation is transferred to the customer, who is responsible for maintenance, together with ownership of the machine.

Responsibility

Any harm caused to people or property deriving from non-observance of the indications contained in this manual cannot be attributed to CFT Packaging S.p.A., which therefore declines all responsibility.

This manual belongs to CFT Packaging S.p.A. and whole or partial reproduction or dissemination is forbidden. It is therefore forbidden to reproduce parts of photographs, illustrations, text or any other contents of the manual.

Updates

CFT Packaging S.p.A. reserves the faculty to amend and update this manual without having to intervene on previous versions. The data and information given below may therefore be subject to amendments and/or upgrades.

Language

The Italian copy of this manual is defined as the "original language version" The Italian version is therefore the version of the manual in the original language and has not been subject to interpretations or variations in meanings through translations.

Other language versions are available on request.

**IMPORTANT****QUALITY OF ILLUSTRATIONS**

In some cases, the illustrations or pictures in the manual may not exactly match the actual machine but they can still be referred to with respect to the information provided. For example, guards, covers, etc. could have been omitted or removed to make the illustration easier to understand..

STRUCTURE OF CONTENTS

The information regarding the system has been treated as clearly and exhaustively as possible; we have not listed all of the prohibited actions because of their large number. Therefore all the actions that are not expressly indicated in this manual are to be considered prohibited and not authorized.



1.2 MANUFACTURER'S RESPONSABILITY

The system has been built according to applicable safety regulations and is fit for the use for which it was intended during design and manufacture.

Any other use is therefore to be considered improper and dangerous.

Any harm to property or people caused by improper, erroneous or careless use of the machine cannot therefore be considered the manufacturer's responsibility.

The manufacturer may not be considered responsible for harm to property or people arising from inadequate training on the use of the system. This manual must be given to the operator and carefully read, as appointed, qualified staff only are authorized to use it.

Non-observance of the provisions indicated in this manual, with consequent harm to people or property, may not be attributed to the manufacture, which declines all responsibility.

1.3 MANUAL LAYOUT

This manual has been structured to facilitate easy consultation.

The general index gives easy access to the desired chapter; at the start of each chapter there is another index to facilitate the identification of the specific topic.

The general index indicates the edition of each chapter, which is also specified on the header of each page together with the chapter number and title. The chapter number is also shown at the foot of the page.

Page numbering starts from 1 for each chapter and is constituted by the current page number and the total pages of the chapter in question.

The manual is also provided with photographs and drawings to facilitate the understanding of the topics dealt with. Some of these may differ slightly from the actual appearance of the machine, without prejudice to the reliability and accuracy of their content.

Symbols are also used in the manual to attract attention to particular indications or warnings.

Here below is a list of symbols used in this manual:



DANGER: refers to a danger situation that, if not avoided, will be sure cause of irreversible damages or death.



WARNING: refers to a danger situation that, if not avoided, could be cause of irreversible damages or death.



CAUTION: refers to a danger situation that, if not avoided, could be cause of moderate damages.



IMPORTANT NOTE: refers to useful information.



USE SAFETY EYEWEAR.



WEAR SAFETY HELMET.



WEAR PROTECTION GLOVES.



USE SAFETY FOOTWEAR.



WEAR EAR MUFFLES.



“ADMIN” PASSWORD LEVEL: indicates that the password level necessary for viewing the page of the operator panel is the Administrator level “9”.



“MANU” PASSWORD LEVEL: indicates that the password level necessary for viewing the page of the operator panel is the Maintenance technician level “8”.



“OPER” PASSWORD LEVEL: indicates that the password level necessary for viewing the page of the operator panel is the Operator level “7”.



1.4 DOCUMENTATION ASSESSMENT REPORT

Due to the extreme importance that the company places on their customers' demands and due to the continuous analysis it carries out on the assessment reports of its work, please find below a documentation assessment report in which it is possible to signal any discrepancies or inaccuracies found in the documentation itself.

**TECHNICAL DOCUMENTATION ASSESSMENT REPORT**

DOCUMENT CODE	TYPE OF DOCUMENT	EDITION

ASSESSMENT

DISCREPANCIES OR INACCURACIES FOUND		
Chapter ref.:		
Paragraph ref.:		
Illustration ref.:		
Text ref.:		

DISCREPANCIES OR INACCURACIES FOUND		
Chapter ref.:		
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2.1 ELECTRIC AND ELECTRONIC SAFETY DEVICES

2.1.1 Safety microswitch

A SAFETY MICROSWITCH is installed on every moving guard. Whenever a guard is open, this device causes an EMERGENCY STOP.



WARNING

Never tamper with the safety microswitches operation by effecting electrical and mechanical modifications. Never use the machine if protections are not assembled and closed and if microswitches are not operating.

2.1.2 Emergency push buttons

The machine is supplied with red mushroom-shaped emergency push buttons on a yellow background causing a sudden machine stop which prevails on any other operations.

Such buttons must be used:

- in case of imminent danger or mechanical accident
- to protract the machine stop when brief interventions are required.

Such button must be pushed in case of :

- maintenance interventions;
- operations requiring operators to enter and stay inside the danger area.

2.1.3 Main switch

The main switch is located on the electric control board, used to provide or cut the electric feeding to the electric and electronic components of the machine.

This switch must be turned on in the following cases:

- maintenance interventions
- operations that require the operator to access and stay within the dangerous zone.

2.1.4 General air switch

The machine is equipped with a general air switch; pulling this switch turns off the machine's pneumatic air circuit.

This switch must be pulled in the following cases:

- maintenance interventions
- operations that require the operator to access and stay within the danger zone.

2.1.5 Visual and acoustic signalator

A multifunctional column is placed inside the external keyboard with the following equipments:

- red light: to signal the emergency state of the machine
- red light: to signal the running state of the machine
- siren: to signal the imminent start of the machine.

2.2 ELECTRIC CONNECTION

2.2.1 System preconditions

Before carrying out the electric connection to the line check the following:

- the electrical wires used, and the voltage and the power supplied, correspond to the specifications indicated on the electrical diagram for the machine;
- masses are connected to the protection circuit (visual check) and all active parts are protected, minimum IP20 (visual check);
- the short circuit intensity foreseen to the connection terminals of the main switch is compatible with its interruption value;
- there is continuity in the protection circuits whose resistance must be lower than 0,1 ohm (if necessary check this as per the procedures mentioned by IEC 17-13/1 regulation);
- the differential devices work properly, when supplied;
- no electric wire is disconnected (i.e. due to transport); if one or more are, reconnect them according to the number code shown on them (see the wiring diagram if needed);
- all the grounding wires are connected.

2.2.2 Electric connection

Connect the electric feeding line upstream to the main switch on the machine electric control board can now be connected.

After carrying out the electric connection to the line check the following:

- the feeding tension is 400 V on the inlet terminals (L1 - L2 - L3) in the electric control board;
- the earthing line is connected to the relevant bar (lying under the terminal box) marked by symbol;
- all control selectors are on 0 (OFF).

Then close the door of the electric control board and turn the main switch on ON (1); once this operation has been effected, the white warning light indicating tension presence turns on.

2.3 PRELIMINARY VERIFICATIONS BEFORE START UP

2.3.1.1 Check the motors rotation direction



Such operation must be performed exclusively by a skilled and qualified electrician.



The rotation direction tests on the drive units installed must be very brief to prevent the machine mechanic gears from getting damaged.

Check the rotation direction of all the motor operating as follows:

- turn the main switch to Pos.1 (ON);
- push the "Alarms reset" button;
- push the "Start" button;
- activate the MANUAL operation cycle as indicated in par. "Operation cycles" then activate the machine's various devices using the TOOLS commands.

Invert the phase cycle direction

If the motor turns in the opposite direction from the normal one, invert the phase cycle direction as follows:

- turn the main switch on pos. 0 (OFF);
- open the door of the electric control box;
- select the wire feeding the utility in question;
- disconnect two phase conductors and invert their position in the terminal box;
- fix the wires and close the electric control box;
- now test the rotation direction again, as previously described and check if it has inverted.

2.3.1.2 Product supply valve

To check the good functioning of the product valve use the manual movement on the relative menù of the operating panel.

If the product valve turns in the opposite side respect the instructions, you may reverse the air feeding pipes of the cylinder.

2.3.1.3 Level control

To test the good functioning of this device, activated the product infeed (manual function), and make sure that when the product level has attained the maximum level probe, the alarm indicator "Product lacking" turns off and the supply valve closes.

2.3.1.4 Pneumatic circuit

Check the filter group of the pneumatic circuit and its connections. There must be no condensed water residuals in the small tank (purge the group by the lower screw if necessary).

Check also the air pressure on the relevant gauge (it must be about 6/7 bar). Adjust infeed pressure by means of the air-adjustment cock on the filter group.



Before inverting the air connection pipes of the pneumatic cylinders, make sure to close the infeed air in the filter group by the relevant sliding disconnecter placed near the air hook-up and turn the main switch on pos.0.

Invert the pipes feeding air to the cylinder

If the cylinder moves in the opposite direction from what operated during the previous tests, proceed as follows:

- cut the electric feeding by turning the main switch on the electric control board on (0 (OFF));
- pull the relevant sliding air-disconnector on the filter unit infeed of the machine; check, by the pressure gauge, that there is no more air circulation and that the circuit used to feed the electrovalves and cylinders is completely empty;
- then invert the cylinder inlet pipes;
- now test the cylinder movement again and make sure the inversion has been achieved.

2.3.1.5 Cleaning

Before being shipped, the machines have been cleaned. However before being started, they need to be cleaned again.

To carry out this operation see the use and maintenance instruction manuals (mechanics).



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3.1 CHECK THE OPERATION OF SAFETY DEVICES



If what is described in the following procedures does not occur when starting the safety systems, a maintenance electrician must be called to intervene and the machine must not be started until the problem has been solved.

3.1.1 Check the operation of the emergency buttons

- Make sure that the automatic or manual cycle of the machine has been operated. See Chap. "Operation cycle" to operate one of the two.
- push the red mushroom shaped emergency button on the machine control button board, making sure to stop the machine cycle.
- To reset the emergency state of the machine unlock the mushroom button pressed and press the button "Reset".

If the machine is provided with more emergency buttons check their functioning by the same procedure above listed.

3.1.2 Check the operation of the main switch

This switch is placed on the machine electric control board.

- Turn the main switch on pos. 1 (ON) and check that the white warning light "Line" turns on.
- Turn the main switch on pos. 0 (OFF) and make sure the white warning light "Line" turns off.

3.1.3 Check the operation of the air disconnecting device

-Pull the sliding disconnecting device placed at the air inlet. Check, by the pressure gauge, that there is no more passage of air and that the circuit used to feed electrovalves and cylinders has been completely emptied.

3.1.4 Safety microswitch

- Make sure that the automatic or manual cycle of the machine has been operated; See Chap. "Operation" to operate one of the two.
- Open the movable protection; the machine cycle stops and the red lamp placed on the column is activated.
- To reset the state of emergency of the machine close the mobile protection opened formerly and press the button "reset".

Now follow the same steps to test the operation of the safety devices of the other moving guards.



3.1.5 Sound alarm

Start the machine operation cycle on automatic or manual mode; To operate the machine on either mode see Chap. "Operation" and check that a sound alarm is produced before its start.



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4.1 OPERATOR PLACES

"Operator places" are areas occupied by the staff in charge of guarding the machine during its normal operation.

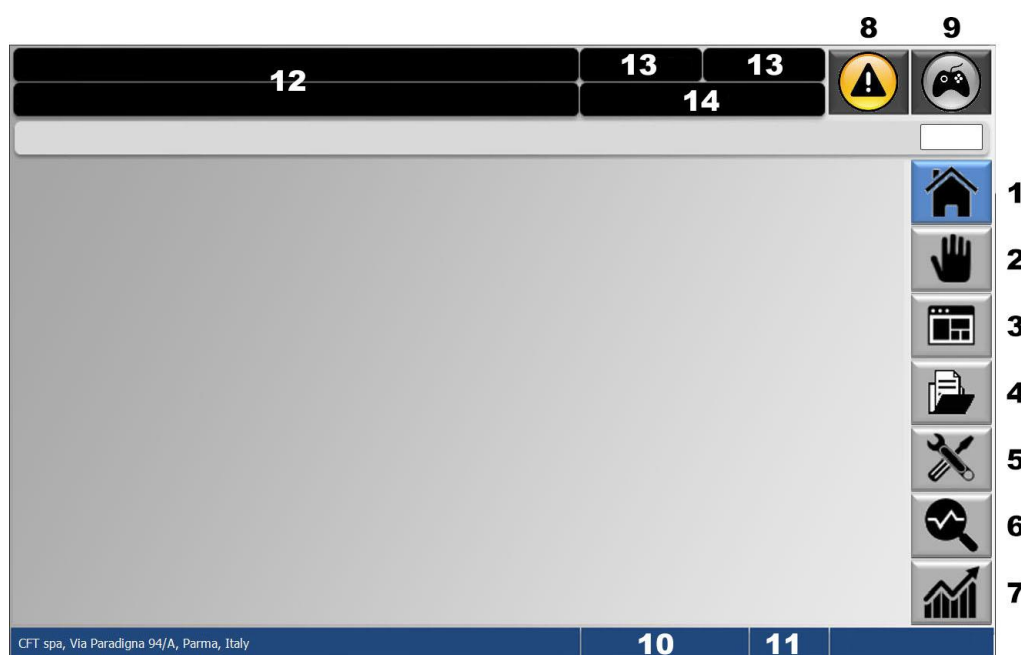
The machine's area of surveillance does not represent any risk to the operator as it is outside of the danger zone

The operator's position for the normal use of the machine is in front of the push-button panel.

4.2 CONTROL DEVICES

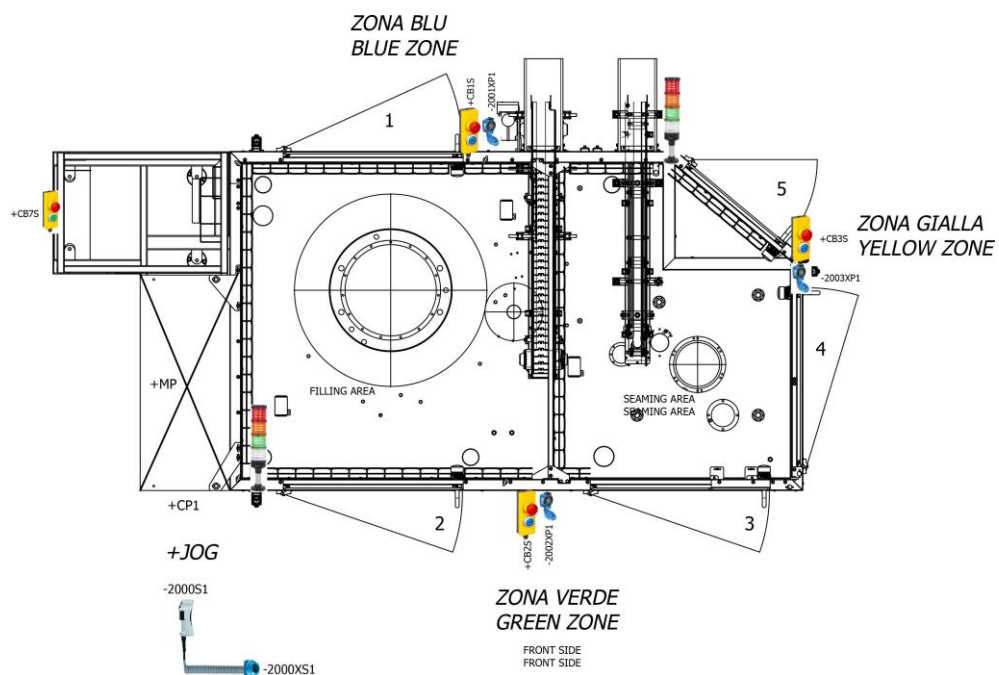
The machine is provided with an electric control board including various selectors, lamps, buttons, switches and an alphanumeric keyboard with display.
The placing of the buttons formerly enumerated are represented in the wiring diagram.

Other control panels can be positioned along the outer perimeter of the machine.
Below is an example of the structure of the operator panel screens, including the description of the keys on the navigation toolbar.



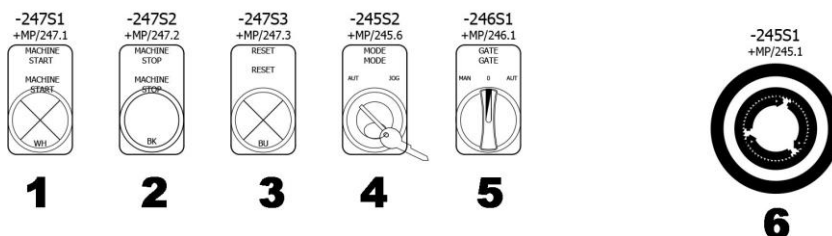
- 1) HOME (Main)
- 2) MANUAL CONTROL MENU
- 3) MACHINE PROCESS LAYOUT MENU
- 4) SELECTION MENU/RECIPE MODIFICATION
- 5) PARAMETERS MENU
- 6) ALARMS
- 7) PRODUCTION MENU
- 8) ALARMS
- 9) SHORTCUT; MACHINE MODE MANAGEMENT
- 10) PASSWORD ENTRY
- 11) LANGUAGE CHANGE
- 12) ACTIVE ALARMS AND SIGNALS
- 13) PRODUCTION DATA
- 14) IDENTIFICATION NAME OF THE WORKING RECIPE LOADED

4.2.1 Layout of control panels



4.2.2 Main push-button panel

A push-button panel housing various selector switches, lights, push-buttons and a touch screen display, is provided for machine operation.



(1) START MACHINE

Use this luminous white button to start up the machine and begin the work cycle.
If the button is lit up and steady, the machine is in automatic operating mode.
If the button is flashing, the machine is in manual operating mode.
If the button is off, no work cycle is currently being run.

(2) STOP MACHINE

Use this black button to stop the machine.

(3) ALARM RESET

Use this luminous blue button, after having solved all triggered alarms, to clear the alarms and reset conditions for machine start-up.
If the button is lit and steady, an alarm is active and machine stop must be reset.
If the button is not lit up, the machine is running regularly.

(4) MACHINE

Use this key selector switch to enable (JOG) or disable (AUT) the operation of the push-button panel for the jog mode of the machine.

**(5) GATE**

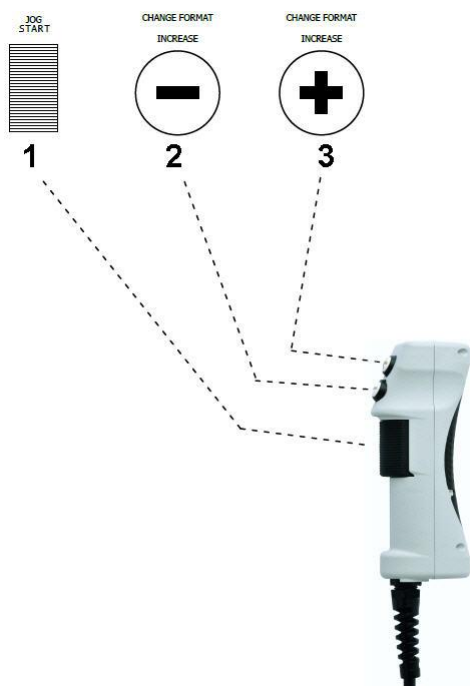
Use this selector to set the system for the stop of machine entry containers to automatic (AUT) or manual (MAN) mode or to disable the system (0).

(6) EMERGENCY

Use this red mushroom button to immediately stop the machine.

Once safe operating conditions have been reinstated, the mushroom button must be released by pressing the alarm RESET button and the machine START button.

4.2.3 Jog push-button



(1) JOG RUN

Use this button to start the machine in the JOG mode.

(2+3) FORMAT CHANGEOVER

Use the push buttons to lift or lower the machines according to the height of the container to be treated.

4.2.4 Door unlocking button panel



(1) EMERGENCY

Use this red mushroom button to immediately stop the machine.

Once safe operating conditions have been reinstated, the mushroom button must be released by pressing the alarm RESET button and the machine START button.

(2) UNLOCK DOOR

Press the push button to execute door opening request.

4.2.5 SKID button panel**(1) EMERGENCY**

Use this red mushroom button to immediately stop the machine.

Once safe operating conditions have been reinstated, the mushroom button must be released by pressing the alarm RESET button and the machine START button.

(2) PRIMING

Use this green button to drain the pipes after a machine washing cycle.

Use this button only after the modulating valve for product infeed is set to "0" and after the machine is completely emptied of all containers.

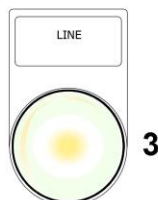
4.2.6 Electrical panel push-button panel



=DIAG+QE-1Q1
=DIAG+QE/1.1



=DIAG+QE-42S2
=DIAG+QE/42.1



WH
=DIAG+QE-46H9
=DIAG+QE/46.9

(1) MAIN SWITCH

Use this main switch to tension the machine.

(2) EMERGENCY

Use this red mushroom button to immediately stop the machine.

Once safe operating conditions have been reinstated, the mushroom button must be released by pressing the alarm RESET button and the machine START button.

(3) LINE

A white LED indicating that the electric panel is live when it is on.

4.3 OPERATION CYCLES

The machine features different operation modes:

- manual cycle
- jogging cycle
- automatic cycle.

Before activating the mentioned cycles, be sure that:

- make sure the emergency push buttons are not pressed and if they are, release them
- all protective safety covers must be closed and correctly locked
- the main switch on the electrical control panel is in the ON position (1)
- press the alarm reset button
- make sure that all anomaly signal lights/alarms are off.

Safety devices included: all.

Safety devices excluded: none.



WARNING

Do not start the machine if any alarm is on.

The operator or the maintenance technician must solve the problem which caused the alarm, before starting to use the machine.

4.3.1 Automatic cycle

Use this cycle mode for production.

To start the machine's automatic cycle you must:

- press the ALARM button on the display to check that there is no active alarm, otherwise solve the problem
- press the "Alarm reset" button on the home button panel
- press the "Start machine" button on the home button panel until the machine's siren stops; this will start the machine in automatic mode.

4.3.2 Manual cycle

The "MANUALS" menu on the operator's panel enables the user to run in manual mode each individual device constituting the machine.

With the mobile button panel (JOG) it is possible to carry out some of the machine's movements by enabling the pulse cycle.

4.3.3 Jogging mode

Use push button panel to let the machine jog; this cycle mode should only be used during maintenance.

Safety devices on: emergencies.

Safety devices off: doors safety.

Turn the "MACHINE" key selector to JOG.

If you press the jog button on the mobile button panel and if no alarms are present, the machine will start after a pre-set time.

This mode will allow you to turn the machine in the pre-set "jog" speed, even when the guards are opened but should be used only by authorised maintainers.

The same procedure is also used for machine size changeover, after the operation concerned (e.g. machines' height adjustment) has been enabled from the operator panel.

4.4 PRODUCTION START

Make sure that the machines are correctly set accordingly to the size.

After having executed the automatic cycle as indicated in Par. Functioning cycles you have to select the functioning mode AUT of the following devices:

- CONTAINER-STOP (optional)
- PRODUCT INLET.

To get further information please read the Chap. USING THE DISPLAY.

4.4.1 Control of the product level probes

Product minimum or medium level uncovered.

The machine container-stop device is closed, the alarm "Lack of product" is activated", and the product supplied inside the tank.

Maximum level engaged.

The product feeding into the hopper is interrupted, the CONTAINER-STOP device opens and the machine carousel starts rotating.

Medium level probe uncovered.

The opening of the product feeding valve is operated so that the product retruns to engage the maximum level probe.



Product temperature programming (Optional).

Thanks to the Touch Sreen it is possible to activate the control of the infeed temperature. If you operate this function, you need to set the minimum temperature threshold of the product by the thermoregulator on the electric control board. To carry out this operation see the manual pertaining to the thermoregulator here with attached.

Temperature recorder (Optional).

The temperature recorder on the electric control board detects the product temperature in the hopper constantly. For further information about the temperature controller see the operator manual DPR100 herewith enclosed.



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**WARNING**

Do not start the machine if any alarm is on.

The operator or the maintenance technician must solve the problem which caused the alarm, before starting to use the machine.

**WARNING**

Access to some pages is password-protected.

Modifying the parameters contained inside could cause the machine to malfunction.

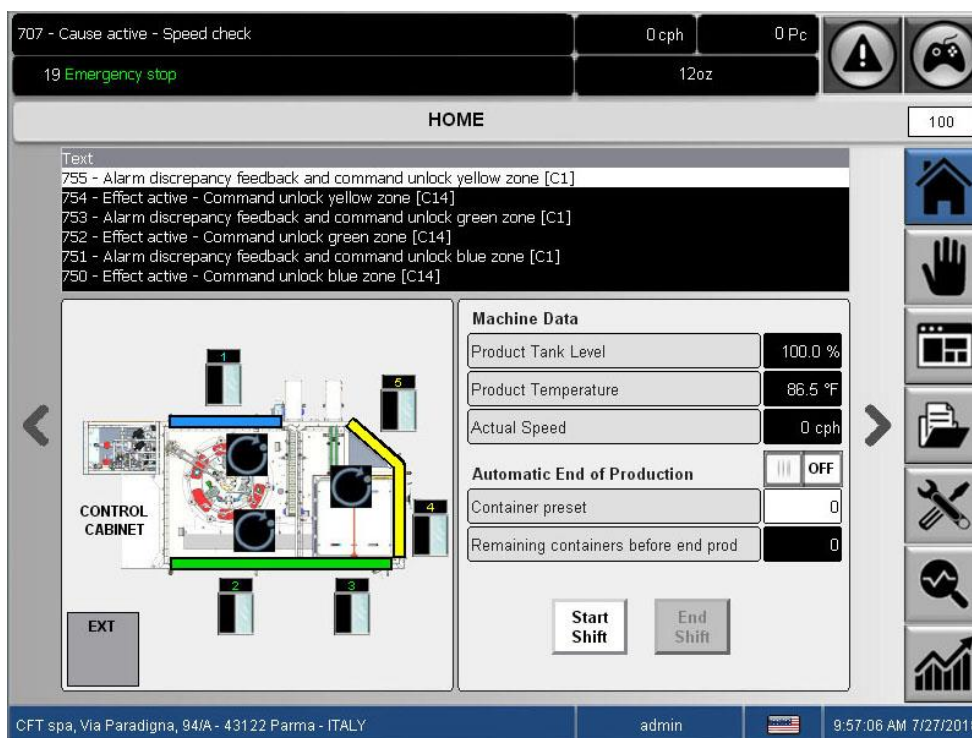
Before attempting any type of intervention or maintenance on board the machine, consult the Chapter "SAFETY WARNINGS" located in the maintenance and use manual (mechanical).

**IMPORTANT**

Based on the message of the active alarm, you must assess what type of maintenance technician is necessary to remedy the problem by consulting the Chapter "PERSONNEL QUALIFICATION AND PROTECTION" located in the Maintenance and Use Manual (mechanical).

5.1 SCREEN AT STARTUP

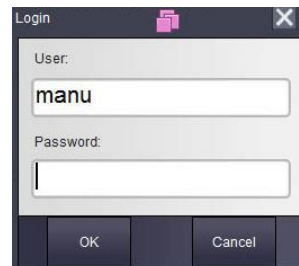
When the electrical panel is turned on, the following screen will appear on the touch screen. Lightly press the keys on the display to perform a command.



5.2 TOUCH SCREEN PANEL

5.2.1 Entering the password

The touch screen is protected by a password that is communicated to the machine manager and which allows access to the "protected" pages from which a number of specific parameters associated with operation can be accessed.



When the password is entered, press the button again to access the respective page.

After the keyboard has been unused for a few minutes you will have to go back to insert the password again.



5.2.2 Entering the values

After clicking inside a value to be changed, the alphanumeric keyboard is displayed.

- Insert the desired value by pressing the relevant keys.
- Confirm the value by pressing the Enter key.



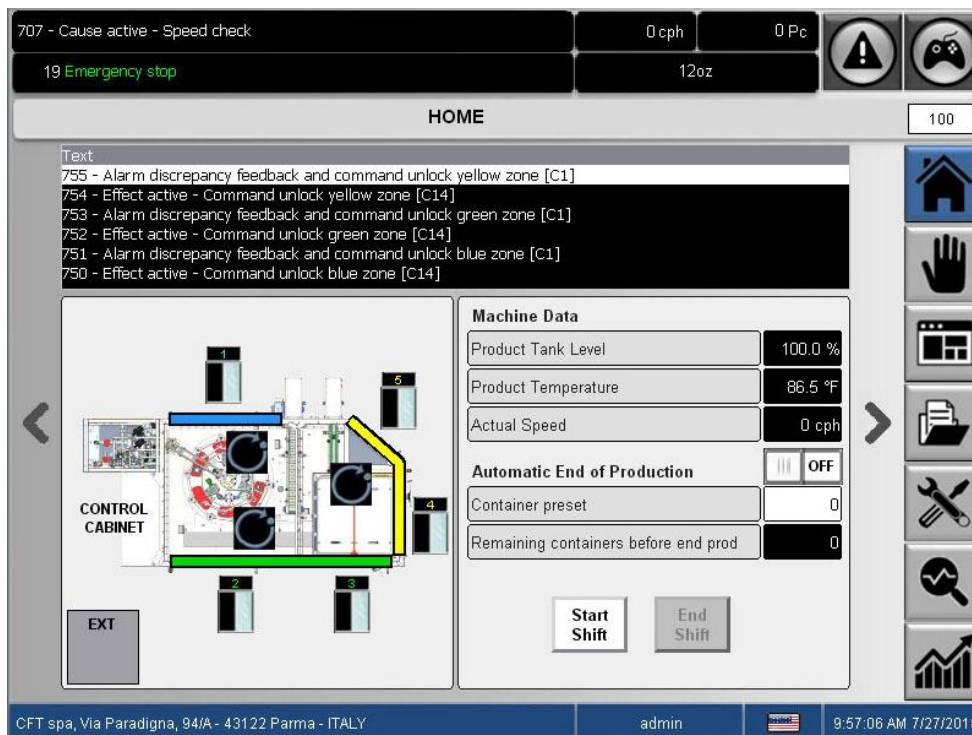
OTHER FUNCTIONS ON THE KEYPAD

- To remove the keyboard display press the "ESC" button.
- To delete one or more pressed buttons press the "BSP" button.
- To move with the cursor inside a screen, press the "arrow" keys.



5.2.3 "HOME" main page - page 1

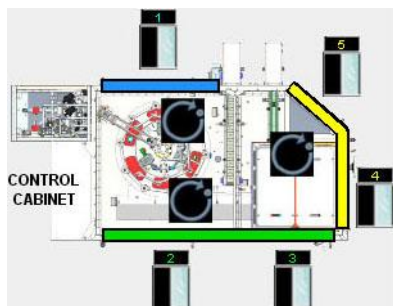
Accessibility with password level: free.



Page function:

this is the main page where the machine general conditions are displayed. At the top of every screen page, the last activated alarm, the machine operating condition, the machine production speed and the recipe in use are displayed.

ALARMS LIST:	display of the last activated alarms.
PRODUCT TANK LEVEL:	display of product tank filling value, expressed in %; readout is performed by the level sensor.
PRODUCT TEMPERATURE:	display of product's current temperature value.
CURRENT SPEED:	display of production current speed.
PRODUCTION AUTOMATIC STOP (ON/OFF):	If activated (ON) the filler produces the number of containers set in the field below "Container Preset" (Lot).
CONTAINER PRESET:	display of the number of containers for the "Lot" functioning.
CONTAINERS LEFTOVER BEFORE THE END OF PRODUCTION:	the number of the leftover containers to be filled before the production is over is displayed.
START/END SHIFT:	press the push buttons to start or stop the hour counter of the containers produced.



This graphic symbol represents machine's plan; the appearance of the "door" icon indicates that the safety door has been opened. The presence of the open or closed padlock (which can be displayed inside the graphic symbol) indicates if the doors of the corresponding areas are blocked or unlocked.



: next page (2).

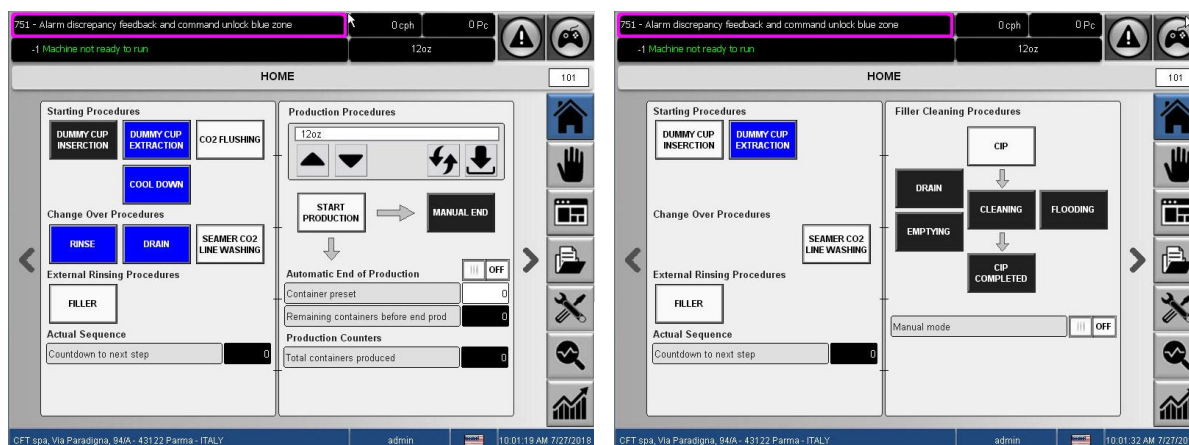


: previous page (3).

5.2.3.1 "HOME - PROCEDURE" main page - page 2

Accessibility with password level: free.

Feasible modifications only with password level:



Page function:

setting of the procedures to be carried out at the beginning and during the machine operation cycles.

DUMMY CUP INSERCTION/EXTRACTION:	press the push buttons to activate/deactivate dummy cans' insertion/extraction procedure.
CO2 FLUSHING:	press the push button to execute machine fluxing procedure with CO2.
COOL DOWN:	press the push button to cool the machine following a hot washing.
RINSE:	press the button to start the rinsing procedure in rinser.
DRAIN:	press the button, all the product contained in the tank is discharged into the tub.
SEAMER CO2 LINE WASHING:	press the push button to execute seamer's CO2 circuit washing.
FILLER OUTSIDE WASHING:	press the button to activate filler's outside washing procedure.
COUNTDOWN TO NEXT STEP:	display of the number of remaining steps before the end of the new washing cycle.
PRODUCTION PROCEDURE:	select the wished recipe from the window menu and press the "Recipe Download" push-buttons to activate it.
PRODUCTION START:	press the push-button to start the production procedure (tank pressurisation, product loading, etc...)
MANUAL END:	press the button to manually stop production cycle.
PRODUCTION AUTOMATIC STOP (ON/OFF):	If activated (ON) the filler produces the number of containers set in the field below "Container Preset" (Lot).
CONTAINER PRESET:	display of the number of containers for the "Lot" functioning.
CONTAINERS LEFTOVER BEFORE THE END OF PRODUCTION:	the number of the leftover containers to be filled before the production is over is displayed.



FILLED CONTAINERS:	display of the number of produced containers.
FILLER CLEANING PROCEDURES:	press CIP push button to start machine washing procedure. It is possible to perform the procedure in automatic or manual mode. Automatic: the filler executes the operations the CIP required through exchange signals. Manual: no management of exchange signals; on the panel, the operator selects the following operations to be performed: -Cleaning -Emptying -Drain -Flooding -Cip Completed



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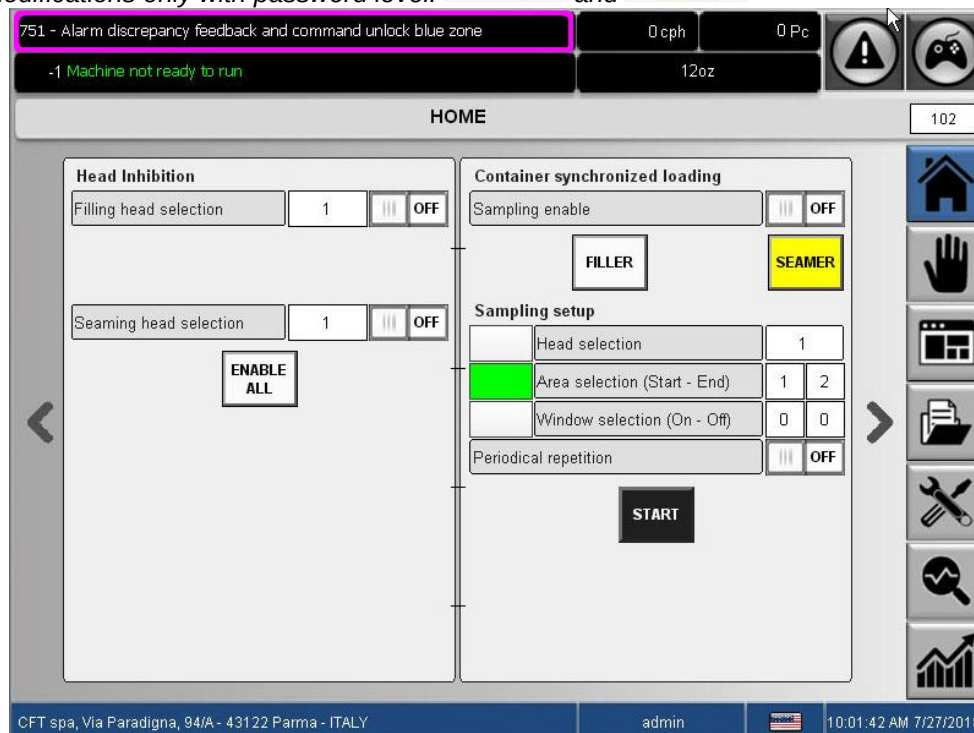
5.2.3.2 "HOME - SAMPLING" main page - page 3

Accessibility with password level: free.

Feasible modifications only with password level:



and



Page function: it manages the containers sampling.

HEAD DISABLING:	If activated (ON), it allows the disabling of the indicated filling head. The container next to the head does not enter from the screw feeder.
SEAMER HEAD SELECTION:	If activated (ON), it allows the disabling of the indicated seaming head. The container next to the head does not enter from the screw feeder.
ENABLE ALL:	press the push button to enable all seaming heads.
SYNCHRONISED CONTAINERS LOADING:	select the turret (FILLER/SEAMER) where the sampling should be taking place. the entry screwfeeder loads the containers corresponding to the performed parametrization (only on the filling heads from 1 to 4).
HEAD SELECTION:	allows the sampling of the single selected (FILLER/SEAMER).
AREA SELECTION (START/STOP):	allows the sampling of a portion of heads, referred to the selected turret.
WINDOWS SELECTION (START/STOP):	allows the casual sampling of a number of set containers.
PERIODICAL REPETITION:	If activated (ON) the sampling is repeated until the operator himself does not interrupt it (OFF).
START:	press the button to start the set sampling.



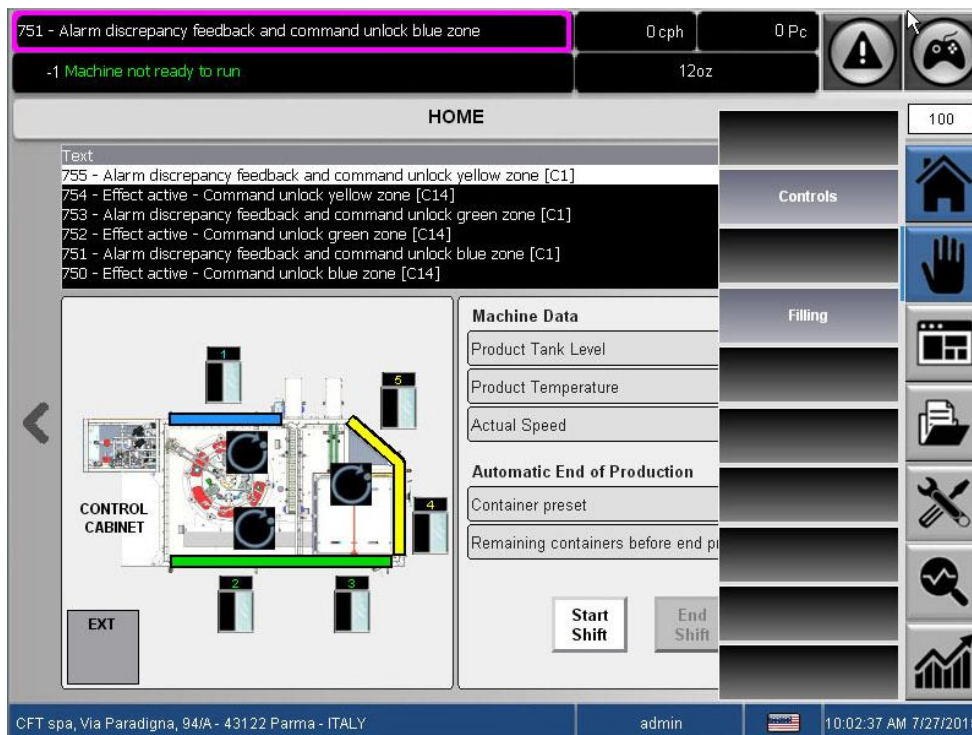
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5.2.4 "MANUAL MODES" MENU



Accessibility with password level: free.



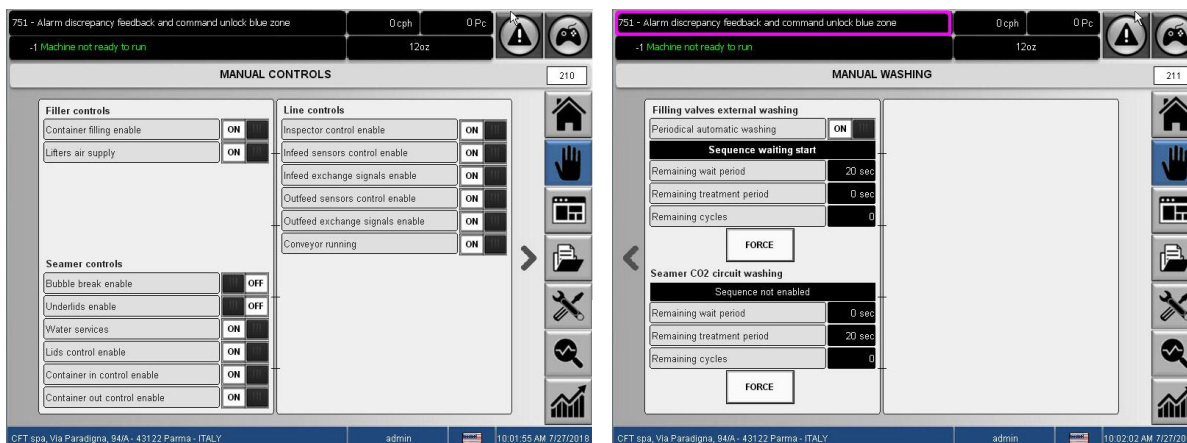
Page function:

this page gives access to the sub-menus for the manual controls managing the machine's devices and groups.

5.2.4.1 “MANUAL” sub-menu - manual checks

Accessibility with password level: free.

Feasible modifications only with password level:



Page function: here you can manage the operation of some of the machine's devices and functions.

FORCE: use this button to force the status of the corresponding functions or devices.



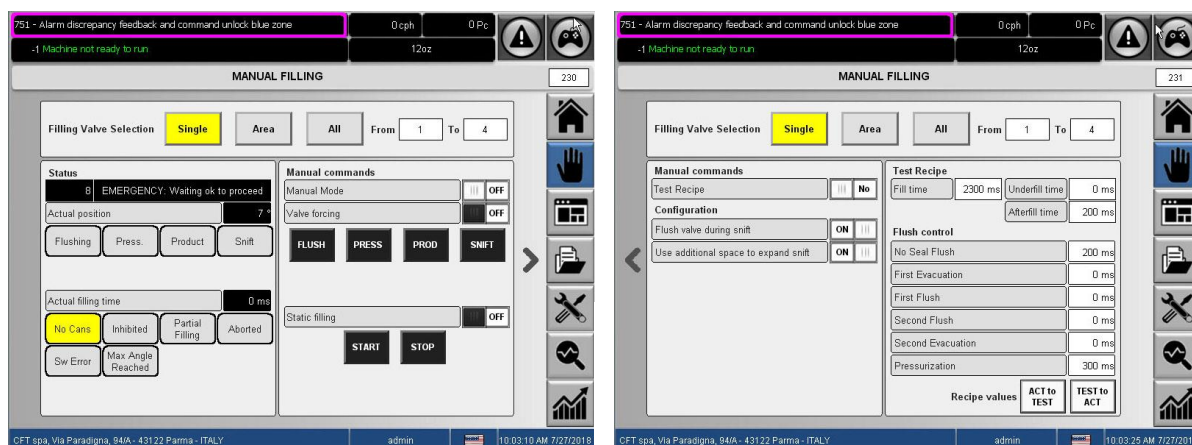
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: previous page.

5.2.4.2 “MANUAL” sub-menu - filler manual checks

Accessibility with password level: free.

Feasible modifications only with password level:



Page function: here you can manage the operation of some of the machine's devices and functions.

SINGLE / AREA / ALL:	use the push-buttons to manage one or more filling valves at the same time.
STATUS:	display of selected valve's "status".
MANUAL COMMANDS:	when manual mode is selected, valves' manual forcing (Valve forcing) or filling cycle's static execution (Static Filling) may be chosen.
TEST RECIPE:	When test recipe is enabled, a dedicated recipe can be applied to the valves selected.
CONFIGURATION:	Press ACT to Test push button to initialize test recipe with the recipe activated. Press TEST to ACT push button to apply test recipe to all valves.

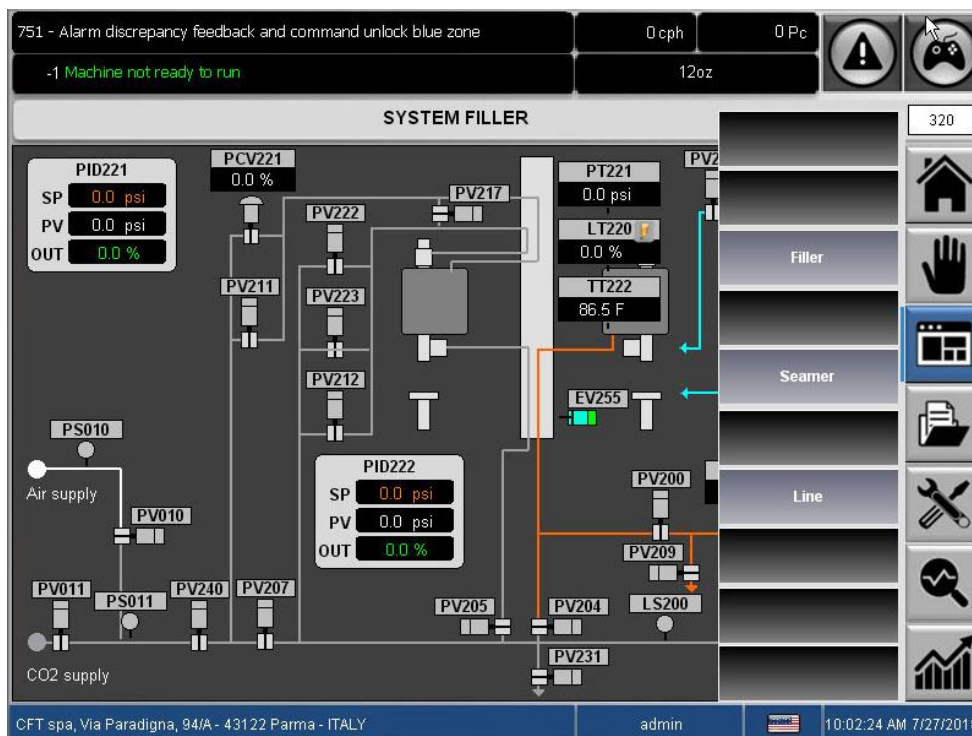


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5.2.5 "MACHINES PROCESS LAYOUT" Menu [WASHINGS4]

Accessibility with password level: free.

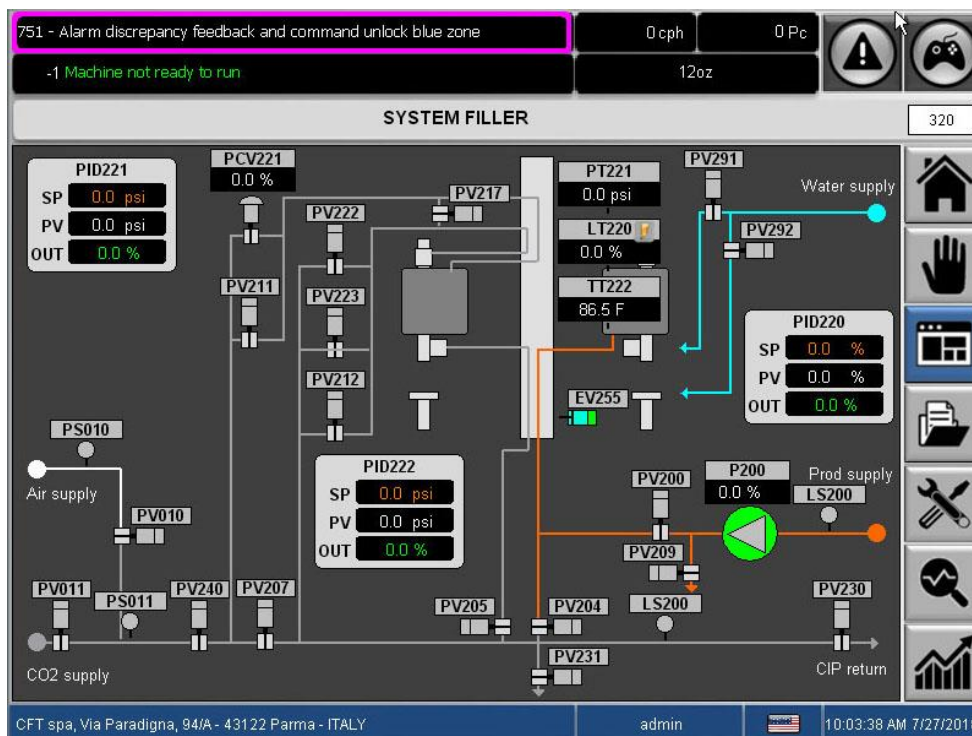


Page function:

it is possible to display and manage the functioning of every single machine or the whole line.

5.2.5.1 "MACHINES PROCESS LAYOUT" submenu - filler

Accessibility with password level: free.



Page function:

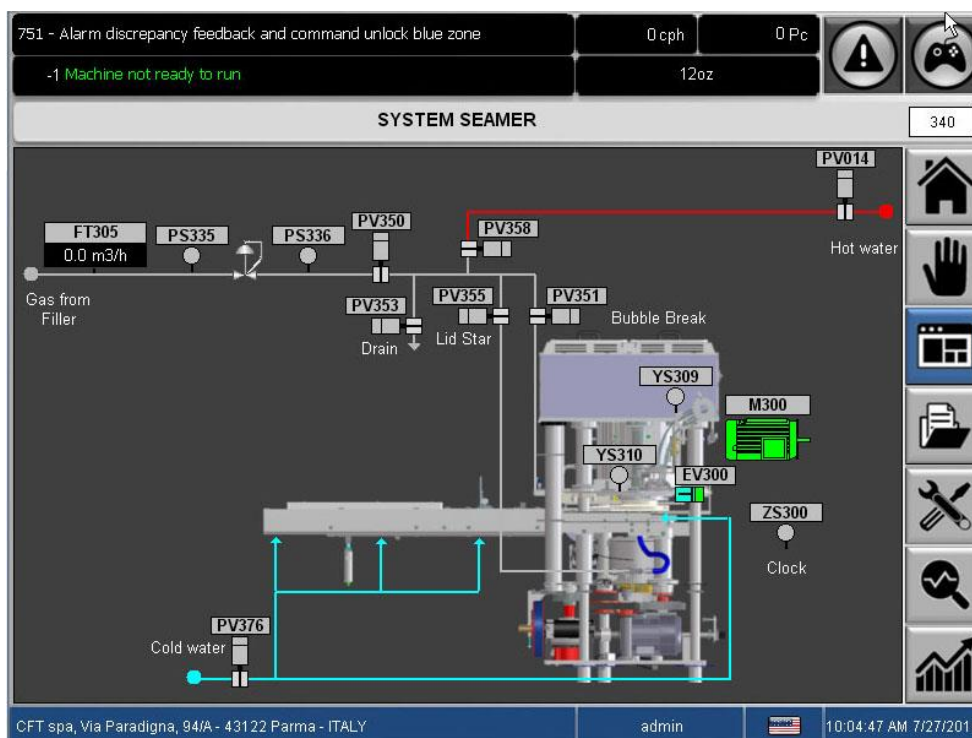
the functioning condition of the system and of devices such as valves, pumps etc... can be displayed and managed.

DEVICES:

press on the single device to display the corresponding pop-up and manage its operation.

5.2.5.2 "MACHINES PROCESS LAYOUT" submenu - seamer

Accessibility with password level: free.



Page function:

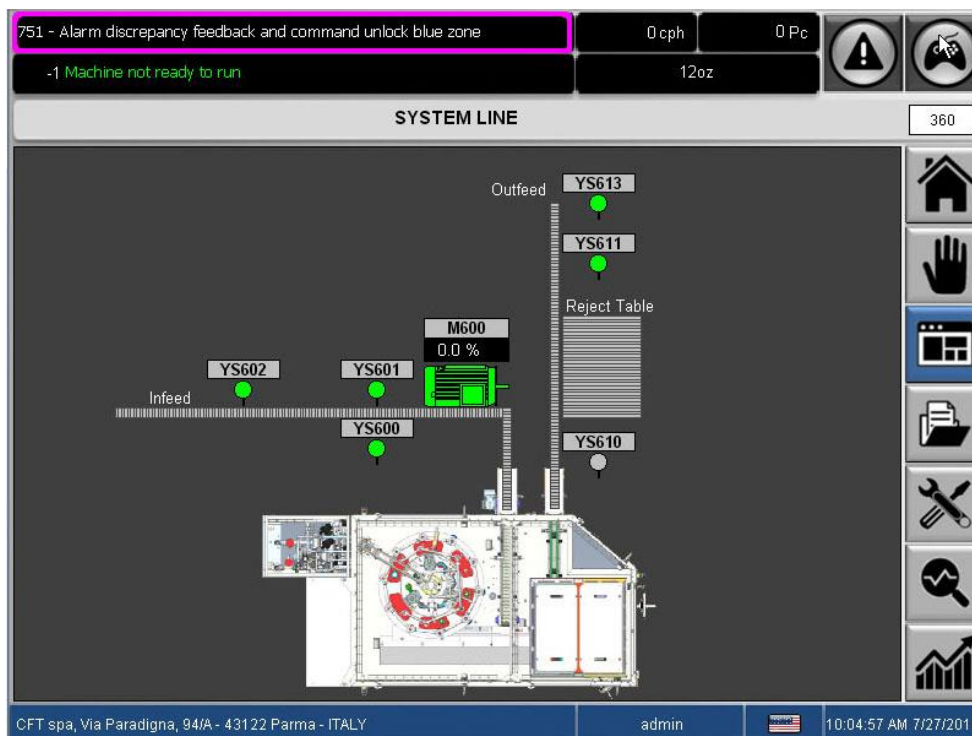
the functioning condition of the system and of devices such as valves, pumps etc... can be displayed and managed.

DEVICES:

press on the single device to display the corresponding pop-up and manage its operation.

5.2.5.3 "MACHINES PROCESS LAYOUT" submenu - line lay-out

Accessibility with password level: free.



Page function:

the functioning condition of the system and of devices such as valves, pumps etc... can be displayed.

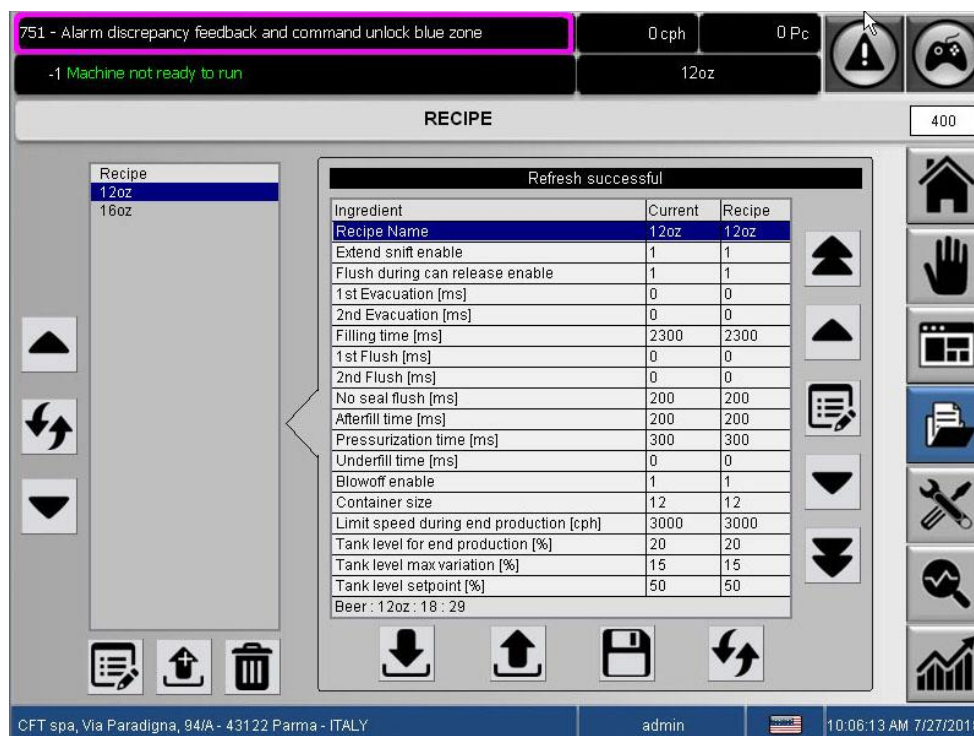
DEVICES:

press on the single device to display the corresponding pop-up and manage its operation.

5.2.6 "CHANGE RECIPE" menu



Accessibility with password level:



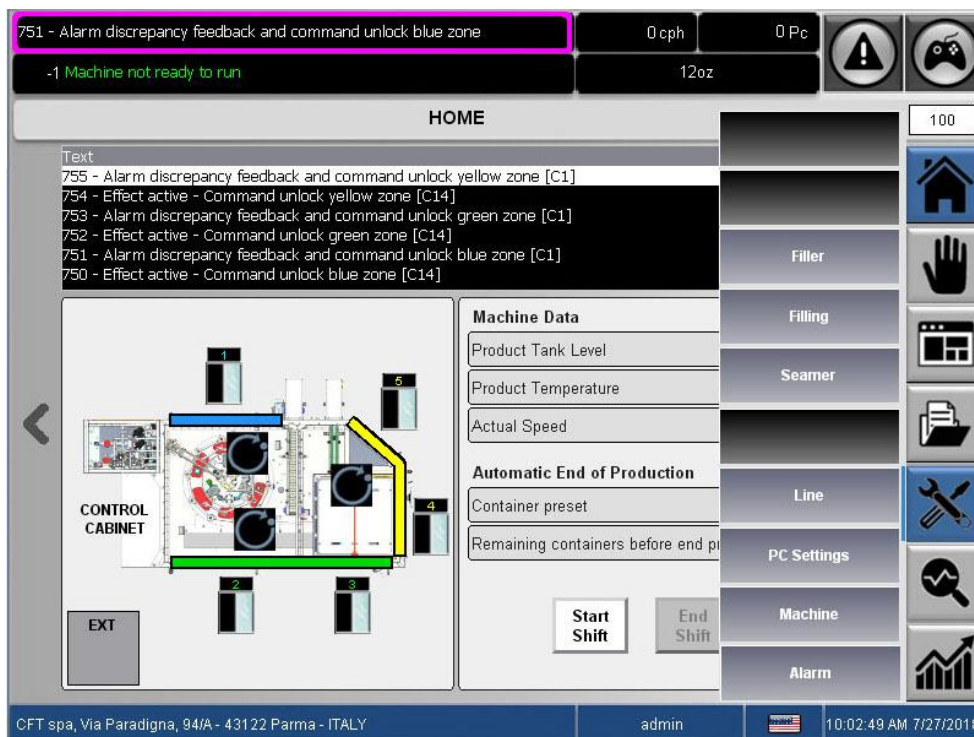
Page function:

here you can change the values characterizing every single work recipe; contact the manufacturer for further instructions before changing these parameters.

5.2.7 "PARAMETRS" menu



Accessibility with password level: free.

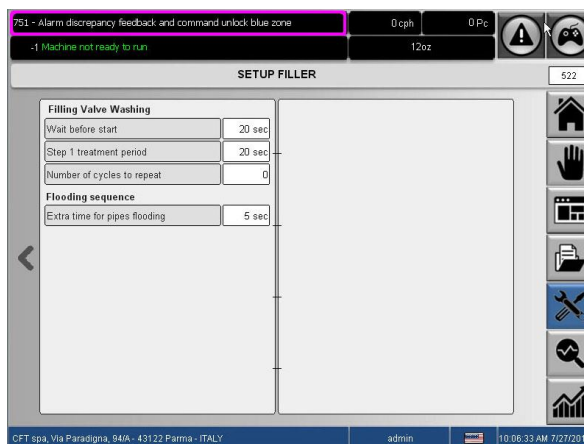
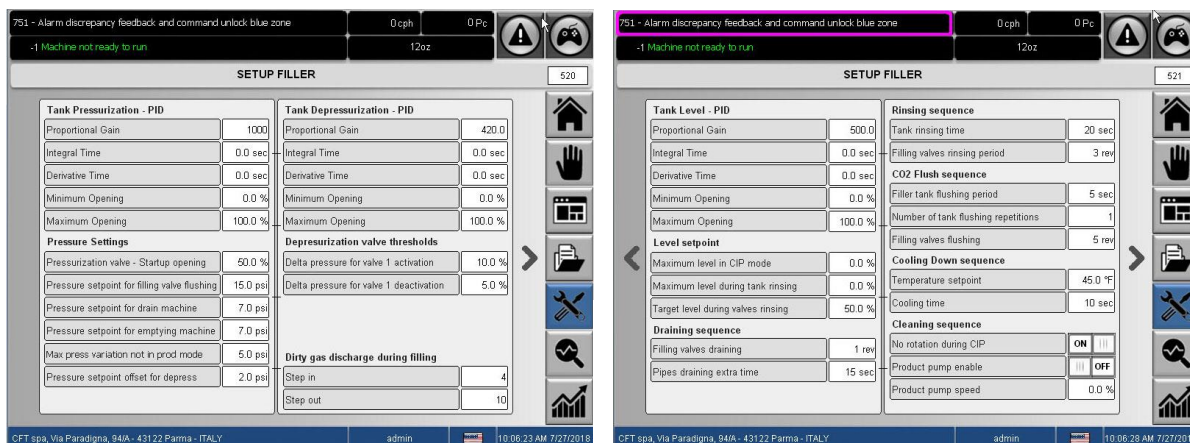


Page function: on this page the main operation parameters are managed.

5.2.7.1 "PARAMETERS" submenu - filler

Accessibility with password level: free.

Feasible modifications only with password level:



Page function: in this page you can manage the filler operation parameters.



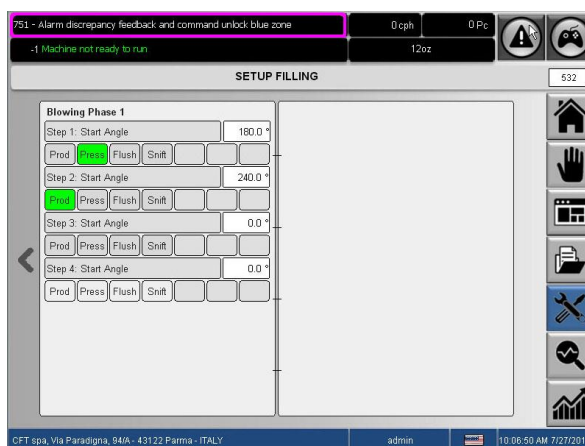
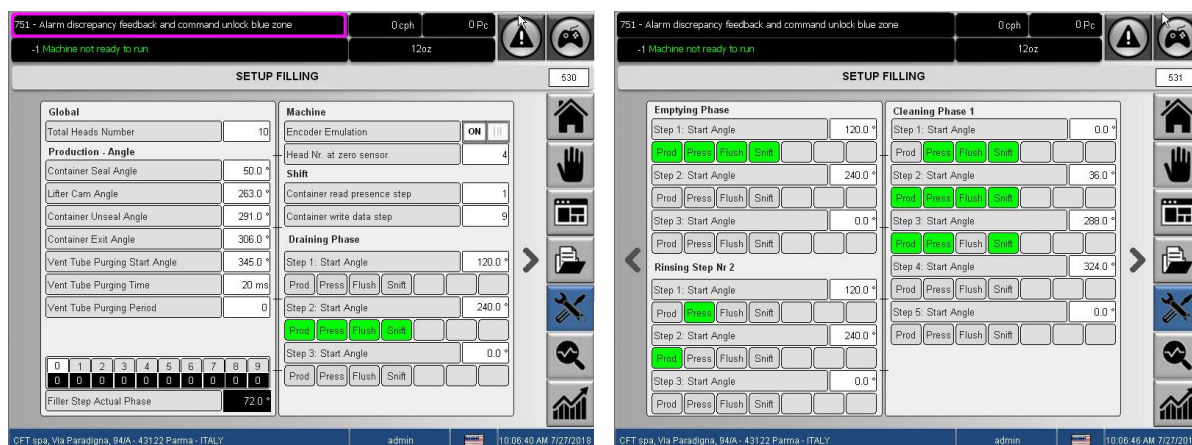
: next page.

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5.2.7.2 "PARAMETERS" submenu - production parameters

Accessibility with password level: free.

Feasible modifications only with password level:



Page function: in this page you can manage the filler operation parameters.



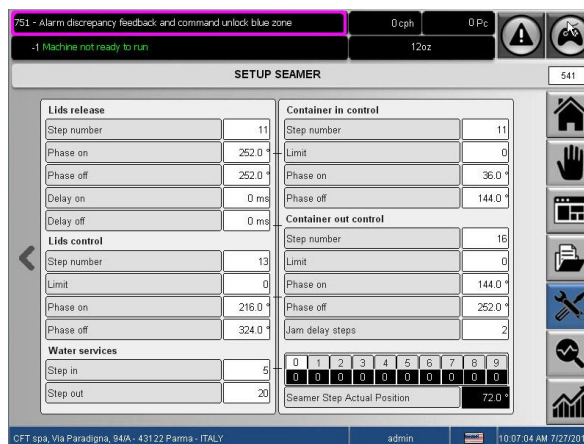
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5.2.7.3 "PARAMETERS" submenu - seamer

Accessibility with password level: free.

Feasible modifications only with password level:



Page function: in this page You can manage seamer operation parameters.



: next page.



: previous page.

5.2.7.4 "PARAMETERS" submenu - line set-up

Accessibility with password level: free.

Feasible modifications only with password level:



751 - Alarm discrepancy feedback and command unlock blue zone

0 cph 0 Pc

! ⚙

-1 Machine not ready to run

12oz

SETUP LINE
560

Infeed - Container presence ●

YS 600 - Filter On 500 ms

YS 600 - Filter Off 50 ms

Infeed - Container fall down ●

YS 601 - Filter On 50 ms

YS 601 - Filter Off 150 ms

Infeed - Nominal accumulation ●

YS 602 - Filter On 3000 ms

YS 602 - Filter Off 100 ms

Machine Speed

Slow down speed from Infeed 50.0 %

Slow down speed from Outfeed 40.0 %

Control Delay

Outfeed Jam delay steps 2

Outfeed - Exit Jammed ○

YS 610 - Filter On 500 ms

YS 610 - Filter Off 50 ms

Outfeed - Exit free ●

YS 611 - Filter On 1000 ms

YS 611 - Filter Off 3000 ms

Stop machine for exit full OFF

Outfeed - Nominal accumulation ●

YS 613 - Filter On 1000 ms

YS 613 - Filter Off 3000 ms

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CFT spa, Via Paradigna, 94/A - 43122 Parma - ITALY

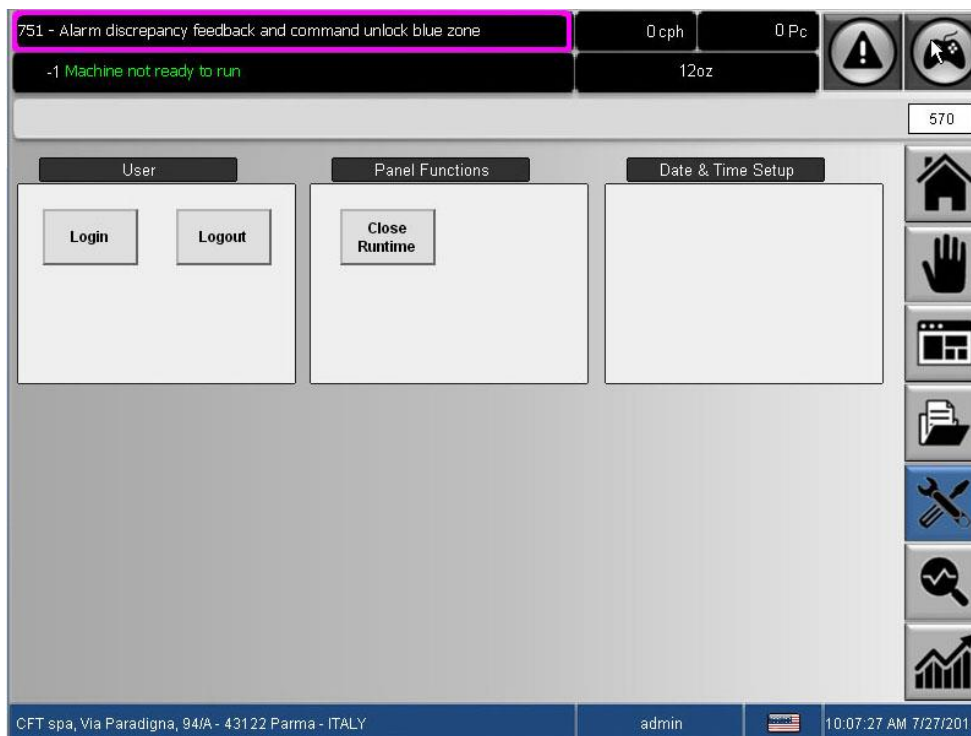
admin

🇺🇸 10:07:13 AM 7/27/2018

Page function: in this page you can manage the whole line operation parameters.

5.2.7.5 "PARAMETRS" submenu - setup system

Accessibility with password level: free.

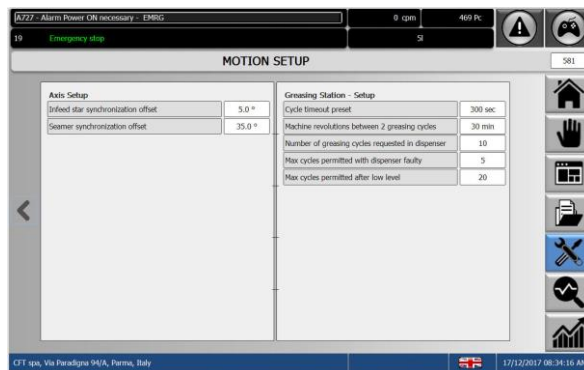
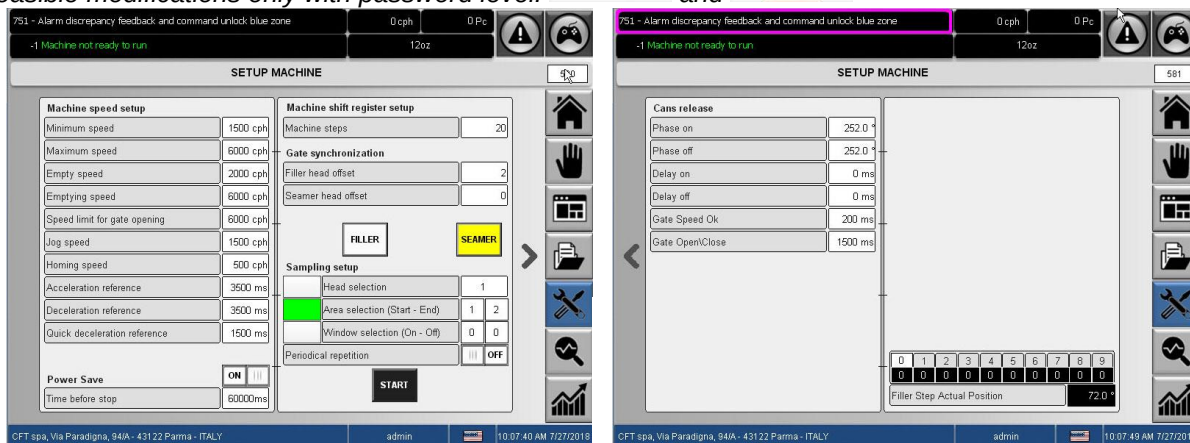


Page function: from this page you can manage the operator panel functions.

5.2.7.6 "PARAMETERS" submenu - machine setup

Accessibility with password level: free.

Feasible modifications only with password level:



Page function: from this page you can manage the parameters concerning machine speed.



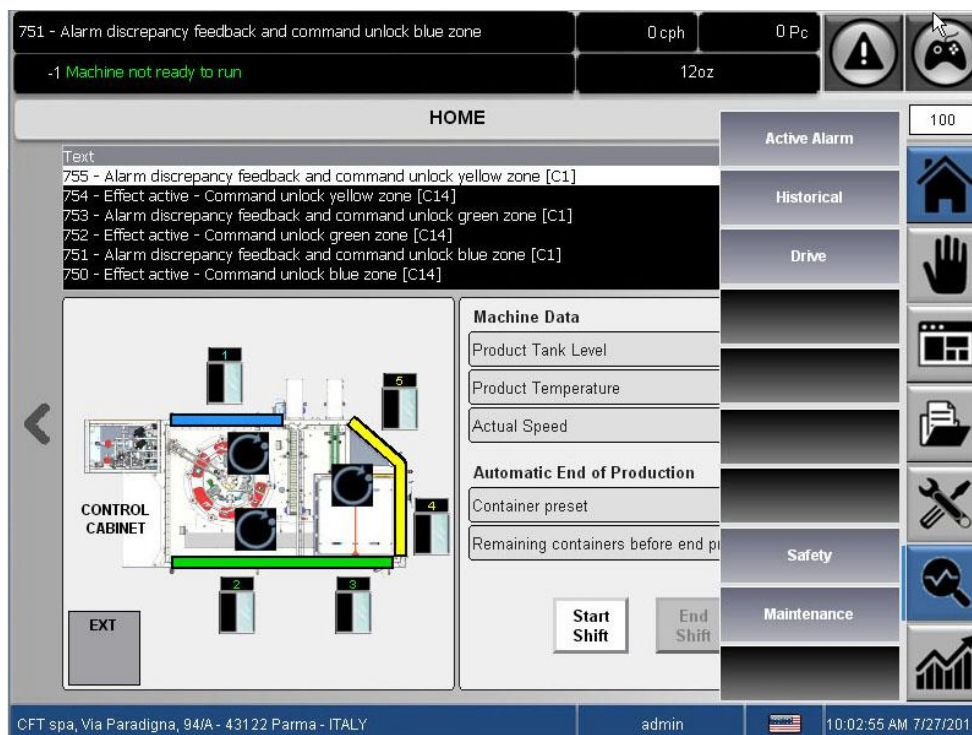
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5.2.8 "ALARM" menù



Accessibility with password level: free.



Page function:

in these pages it is possible to display and manage the various alarms that arise in the machine.

5.2.8.1 "ALARMS" submenu - alarms active

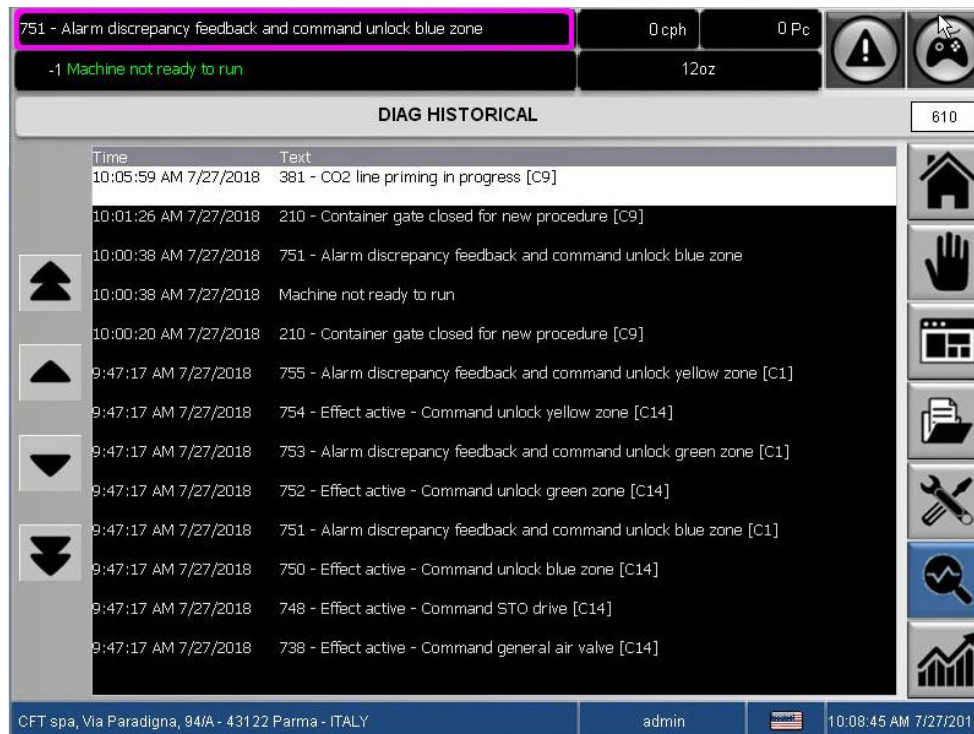
Accessibility with password level: free.



Page function: in these pages it is possible to display the latest activated alarms.

5.2.8.2 "ALARMS" submenu - alarms history

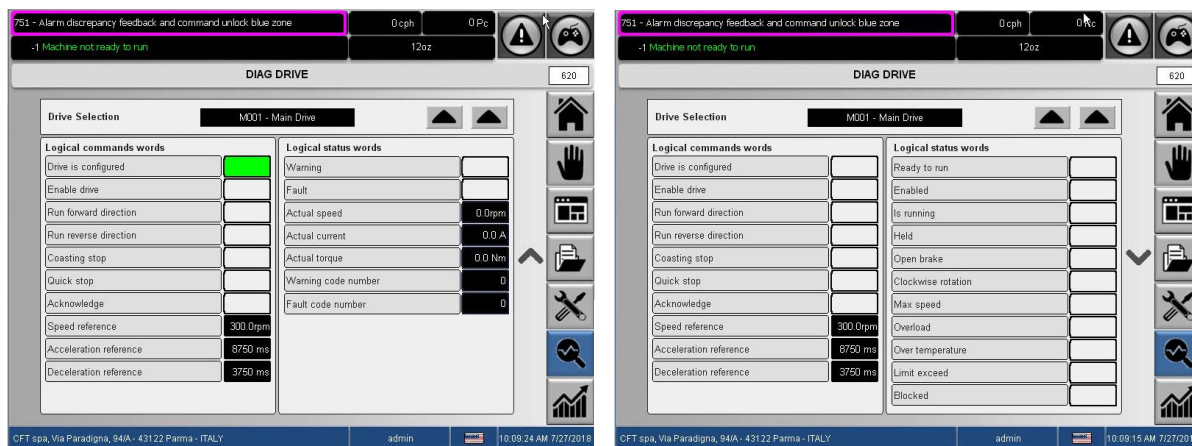
Accessibility with password level: free.



Page function: in these pages it is possible to display the activated alarms history.

5.2.8.3 "ALARMS" submenu - drive status

Accessibility with password level: free.



Page function:

In these pages, it is possible to perform an inverters diagnostics. Select from the window menu the inverter to monitor.



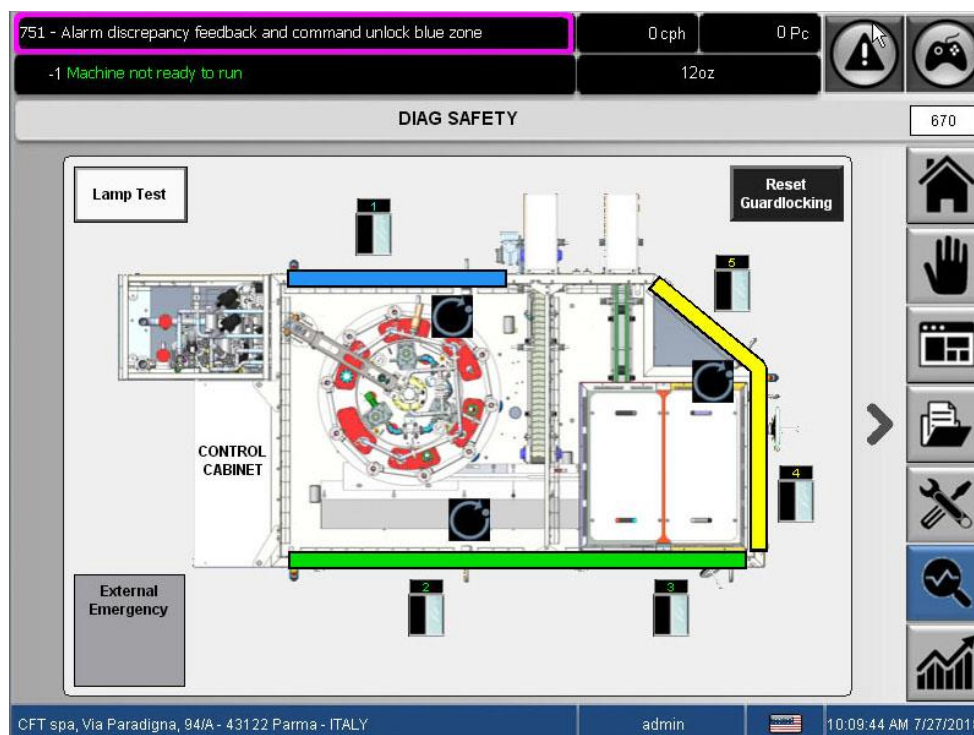
: next page.

: previous page.

5.2.8.4 "ALARMS" submenu - safety diagnostics

Accessibility with password level: free.

Feasible modifications only with password level:



Page function: from this page You can diagnose machine safety circuits.

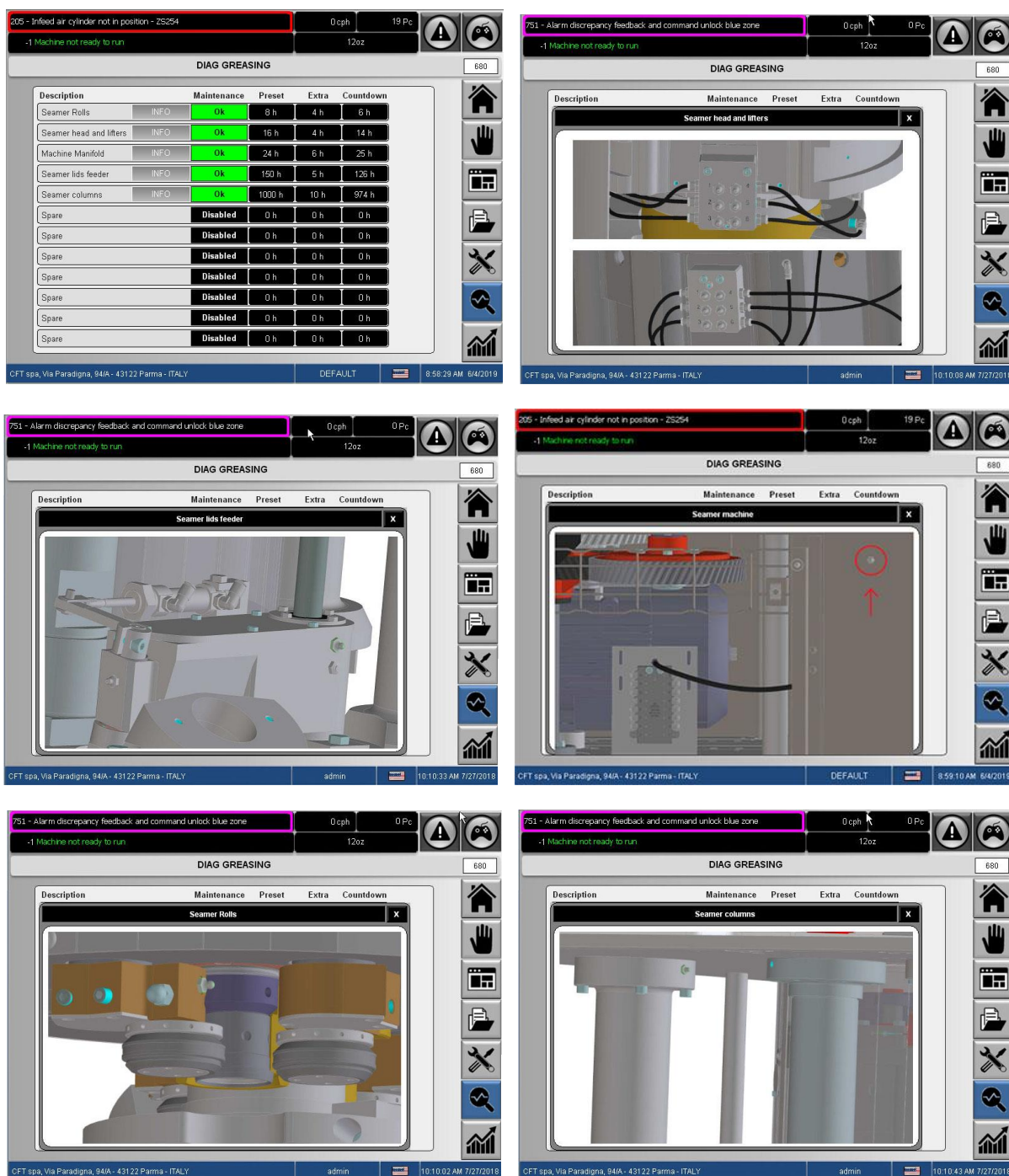
LAMP TEST: Push button for the testing of all the lamps on the machine.

RESET GUARDLOCKING: Push button activating the procedure detecting a new safety key

5.2.8.5 "ALARMS" submenu - maintenance diagnostics

Accessibility with password level: free.

Feasible modifications only with password level:



Page function:

from these pages You can verify the condition of the ordinary maintenance activities required by the machine.

MAINTENANCE CONDITION:	Ok = no activity required. Required = activity required, but production allowed. Needed = Activity needed, machine rotation prohibited. By pressing info You can display the details concerning the activity to be executed. If such activity should be required, a push button confirming activity execution will be displayed.
PRESET:	frequency required in maintenance intervention.
EXTRA:	display of an extra time allowing to go on with the production even if no maintenance has been performed. When such interval expires as well, machine will stop.
COUNTDOWN:	time remaining until machine stop.



: next page.



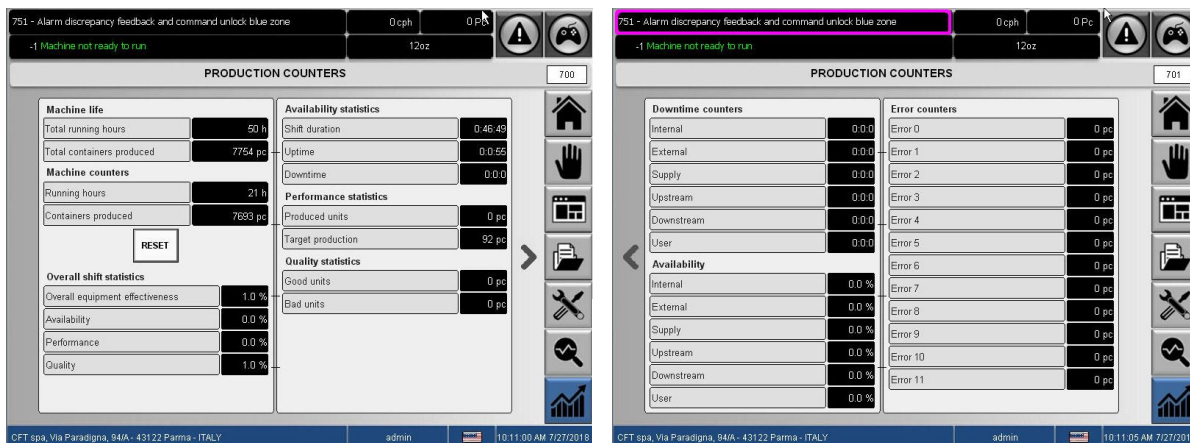
: previous page.

5.2.9 "PRODUCTION" Menu



Accessibility with password level: free.

Feasible modifications only with password level:



Page function: on this page the data relating to production can be displayed.

RESET: press the push-button to reset the values of the maintenance hours counters.



: next page.

: previous page.



5.2.10 "ALARMS" Menu

Accessibility with password level: free.

No.	Time	Date	Text
51	16:38:41	09/10/2017	STB - Container gate closed in manual
778	16:38:41	09/10/2017	EMRG - 1oo2 hardware discrepancy open request selector orange zone
777	16:38:41	09/10/2017	EMRG - 1oo2 hardware discrepancy iog pushbutton orange zone
776	16:38:41	09/10/2017	EMRG - 1oo2 hardware discrepancy doors closed and locked orange zone
775	16:38:41	09/10/2017	EMRG - 1oo2 hardware discrepancy emergency pushbutton orange zone
774	16:38:41	09/10/2017	EMRG - 1oo2 hardware discrepancy open request selector blue zone
773	16:38:41	09/10/2017	EMRG - 1oo2 hardware discrepancy iog pushbutton blue zone
772	16:38:41	09/10/2017	EMRG - 1oo2 hardware discrepancy doors closed and locked blue zone

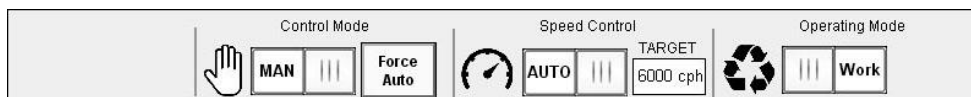
Page function: press the push-button to display the last activated alarms.

5.2.11 "SHORTCUT" Menu



Accessibility with password level: free.

Feasible modifications only with password level:



Page function: press the push-button to display some of the manual controls of the machine.

CONTROL MODE:	press the push-button to enable the controls in manual mode.
FORCE AUTO:	press the push-button to force all the controls in automatic mode.
SPEED CONTROL:	If it is enabled in "MAN" mode, the machine speed is controlled manually, using the relevant "Target" value displayed nearby. If it is enabled in "AUTO" mode, the machine speed will take as reference the "Target" value, but such value will change automatically according to the machine needs or to the production line.



INDEX

6 - MACHINE STOP

6.1	AUTOMATIC / MANUAL CYCLES STOP	78
6.2	EMERGENCY STOP	78
6.3	STOP FOR PROCESSING END.....	78
6.4	STOPPING THE MACHINE FOR LONG PERIODS.....	78

6.1 AUTOMATIC / MANUAL CYCLES STOP

To stop the automatic or manual cycle of the machine you have to push the red stop button placed on the electric control board.

If you want to switch the machine off, cut feeding tension putting on 0 (OFF) the main switch placed on the electric control board.

When the machine detects any operation anomalies, it stops immediately and automatically. The machine stops, as it detects that doors are open.

6.2 EMERGENCY STOP

Push one of the red mushroom-shaped buttons on yellow background to stop the machine for emergency reasons.

Use emergency buttons in the following cases:

- on imminent danger or mechanical accident
- in order to protract machine stop, when adjustments or brief mechanical interventions must be carried out.

The immediate stop of the machine prevails on any other functions and operations. Power electrical feeding to actuators is cut and the air interception valve stops pneumatic feeding, too. Only electrical feeding to control devices remains.

To reset the functioning you have to unlock the emergency mushroom, so complete the process to reset the active alarms.

6.3 STOP FOR PROCESSING END

- Wait for all the products to come out.
- Disable all the active devices.
- Press the red STOP button.
- Turn the main power switch to (0).

6.4 STOPPING THE MACHINE FOR LONG PERIODS

The power supply batteries of the PLC have an average duration of approximately two years: if the machine stop has more or less the same duration, replace the batteries before they go flat. The replacement must be implemented according to the procedure indicated in the PLC supplier's manual.



When the buffer battery of the PLC is removed all parameters of the machines and format (recipes) are lost. Thus a specialized technician must intervene to put the machine back into service.

**INDEX****7 - MAINTENANCE AND REPAIR**

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7.1 GENERAL WARNINGS



Before any maintenance operation, you must turn off the power to the machine using the main switch located on the electrical control panel.

Before any maintenance operation you must lock the main switch to the "0" position using a padlock.

Even after putting the main switch to "0", the machine's power cable and the main switch will continue to be live.

After having turned the main switch to "0", wait about five minutes before working on the machine.

Defects or damages which are encountered during maintenance activities must be eliminated immediately or must be subject to a report for a future repair. In the case of obvious danger for the operator or for the machine, the equipment must be stopped immediately; the machine must not be started again until the defect is repaired.

If maintenance operations not specifically stipulated in this manual are necessary, you must contact the manufacturing company which must provide all information necessary.

7.2 QUALIFICATION OF OPERATORS APPOINTED TO PERFORMING MAINTENANCE

Strictly assign maintenance and repair tasks to a skilled mechanic duly trained and very familiar with the machine and the content of this manual.



Technical staff responsible for making tests and/or repairs should be reminded the following general rules:



- never perform work when you are tired or not perfectly fit for the work



- never perform work under bad or insufficient illumination of the area



- before accessing enclosed parts of the machine make sure to have portable illumination lights available



- always provide full compliance with the applicable "safety and prevention rules on workplaces".

7.3 MAINTENANCE

7.3.1 Summary table of periodic maintenance operations

EVERY WEEK	EVERY 1000 HOURS OF WORK	EVERY 2 MONTHS	EVERY 4 MONTHS	EVERY 6 MONTHS	MAINTENANCE	REF.
					Every 6 months check if power contactors are worn.	
					Every 6 months check that the differential protecting the electric feeding line to the machine is working properly.	
					Every 6 months check protection circuit and grounding.	
					Every 2 months check that photocells are put in light properly; clean their reflecting mirrors and the optical parts.	
					Every 4 months clean the filters of the fans / exchangers in the electric control boxes.	

7.4 ALARMS LIST

ALARM DESCRIPTION	CAUSE
24V DC Thermal overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit
AC Auxiliary voltage thermal overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit
Main voltage thermal overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit
Cabinet cooling system thermal overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit
Air pressure too low	CAUSE: Air supply pressure is below the required threshold. ACTION: Check the air supply circuit for pressure losses
24V DC Rotating Carousel Thermal overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit
Rotating cabinet cooling system thermal overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit



ALARM DESCRIPTION	CAUSE
Main power not present (UPS mode)	CAUSE: The machine's power supply is interrupted, now running with UPS. ACTION: Restore power supply to the machine
UPS battery too low	CAUSE: UPS battery has a low charge. ACTION: Save any progress and shut down the machine
Air filter clogged	CAUSE: Solid impurities in the air have clogged the filter. ACTION: Perform filter maintenance
CO2 supply pressure too low	CAUSE: CO2 supply pressure is below the required threshold. ACTION: Check the CO2 supply circuit for pressure losses
Pneumatic spring filling valve pressure Too Low	CAUSE: Pressure in the filling valve springs' circuit is below the required threshold. ACTION: Check the supply and circuit for pressure losses
N2 supply pressure too low	CAUSE: N2 supply pressure is below the required threshold. ACTION: Check the N2 supply circuit for pressure losses
Utility device in manual mode or in simulation	CAUSE: User has manually commanded a utility device. ACTION: Restore automatic operation of the device
CO2 Infeed valve not in position	CAUSE: The valve may be obstructed, command circuit interrupted or sensor missaligned or faulty. ACTION: Check the valve and sensor to perform any necessary maintenance or replacements
N2 Infeed valve not in position	CAUSE: The valve may be obstructed, command circuit interrupted or sensor missaligned or faulty. ACTION: Check the valve and sensor to perform any necessary maintenance or replacements
Hot Water Infeed valve not in position	CAUSE: The valve may be obstructed, command circuit interrupted or sensor missaligned or faulty. ACTION: Check the valve and sensor to perform any necessary maintenance or replacements
Cold Water Infeed valve not in position	CAUSE: The valve may be obstructed, command circuit interrupted or sensor missaligned or faulty. ACTION: Check the valve and sensor to perform any necessary maintenance or replacements
Steam Infeed valve not in position	CAUSE: The valve may be obstructed, command circuit interrupted or sensor missaligned or faulty. ACTION: Check the valve and sensor to perform any necessary maintenance or replacements
Greasing pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Machine greasing cycle fault	CAUSE: Greasing cycle not detected by sensor, pressure may be low or sensor faulty. ACTION: Check the greasing circuit for losses or lack of priming, check sensor
Grease low level	CAUSE: Grease tank level too low or sensor failure. ACTION: Replenish tank, check sensor positioning and functioning
Too many greasing cycles failed	CAUSE: Greasing cycle not detected by sensor, pressure may be low or sensor faulty. ACTION: Check the greasing circuit for losses or lack of priming, check sensor
Too many greasing cycles with low level	CAUSE: Grease tank level too low or sensor failure. ACTION: Replenish tank, check sensor positioning and functioning
Gate closure for synchro loading	CAUSE: Synchronized loading was selected by user. ACTION: Turn off synchronized loading



ALARM DESCRIPTION	CAUSE
At least one filling head inhibited	CAUSE: Filling head inhibited by user. ACTION:
At least one rinsing/blowing nozzle inhibited	CAUSE: Rinsing/blowing nozzle inhibited by user. ACTION:
At least one seaming head inhibited	CAUSE: Seaming head inhibited by user. ACTION:
At least one capping head inhibited	CAUSE: Capping head inhibited by user. ACTION:
Container gate closed in manual	CAUSE: Gate selector is in force close position. ACTION:
Container gate opened in manual	CAUSE: Gate selector is in force open position. ACTION:
Container blocked in wormscrew	CAUSE: Wormscrew safety sensor detected a container blockage. ACTION: Remove any damaged containers from machine and restart
Machine lighting thermal overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit
Machine container infeed synchronization sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Machine infeed container sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Shift Register device in manual or in simulation	CAUSE: User has manually commanded a shift register device. ACTION: Restore automatic operation of the device
Maintenance Required - See Page 680 on Diagnostic Menu	CAUSE: A maintenance counter will elapse shortly. ACTION: Finish batch, perform maintenance promptly and confirm done
Maintenance Necessary - See Page 680 on Diagnostic Menu	CAUSE: A maintenance counter has elapsed. ACTION: Perform maintenance and confirm done before restarting operation
No flow detected on laminar flow fans	CAUSE: Air filters may be clogged, fans or sensor faulty. ACTION: Check air filter, fans and sensor
Pre-Filter clogged (Check diagnostic page)	CAUSE: Solid impurities in the air have clogged the filter. ACTION: Perform filter maintenance
Absolute filter clogged (Check diagnostic page)	CAUSE: Solid impurities in the air have clogged the filter. ACTION: Perform filter maintenance
Laminar flow motor fan fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Laminar flow motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Laminar flow motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual



ALARM DESCRIPTION	CAUSE
Rinser device in manual mode or in simulation	CAUSE: User has manually commanded a rinser device. ACTION: Restore automatic operation of the device
Can Wash Treatment Flow Switch off	CAUSE: Can wash treatment circuit obstructed or low supply pressure. ACTION: Check circuit for obstructions or pressure losses
Can Rinser Chute not in position	CAUSE: Chute may be jammed or piston faulty. ACTION: Check can chute
Rinser water pressure too low on 1st Stream	CAUSE: Loss of pressure in the circuit or supply pressure too low. ACTION: Check circuit and supply for losses
Rinser water pressure too low on 2nd Stream	CAUSE: Loss of pressure in the circuit or supply pressure too low. ACTION: Check circuit and supply for losses
Container Not Blowed	CAUSE: Nozzle(s) obstructed, sensor not aligned or faulty. ACTION: Check that nozzles are blowing, sensor is correctly positioned and operating correctly
Too Many Containers Not Blowed	CAUSE: Nozzle(s) obstructed, sensor not aligned or faulty. ACTION: Check that nozzles are blowing, sensor is correctly positioned and operating correctly
Too Many Containers Same Head Not Blowed	CAUSE: Nozzle obstructed. ACTION: Check nozzle for obstructions or damage, replace if necessary
Blowing Test in Progress	CAUSE: . ACTION:
At Least One Blowing Nozzle NOT Work	CAUSE: Nozzle obstructed. ACTION: Check nozzle for obstructions or damage, replace if necessary
Blower pressure probe in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Rinser pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Rinser pump motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Rinser pump motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Rinser tank level too low	CAUSE: Lack of sufficient supply. ACTION: Check supply circuit for losses or obstructions
Blower ionizer fault	CAUSE: Unit may be damaged. ACTION: Check unit manual for diagnostics
Blower ionizer local isolator off	CAUSE: Unit was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the unit
Rinser/Blower aspirator motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Rinser/Blower aspirator motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Rinser/Blower aspirator motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual



ALARM DESCRIPTION	CAUSE
Nozzle Not Aspired	CAUSE: Nozzle(s) obstructed, sensor not aligned or faulty. ACTION: Check that nozzles are aspiring, sensor is correctly positioned and operating correctly
At Least One Aspiration Nozzle don't Work	CAUSE: Nozzle obstructed. ACTION: Check nozzle for obstructions or damage, replace if necessary
Blower vacuum probe in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Blower vacuum too low	CAUSE: Pressure is above the required setpoint. ACTION: Check vacuum circuit for losses
Rinser water temperature sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Rinser water temperature too low	CAUSE: Value is below the required setpoint. ACTION: Wait for heating
Rinser height sensor in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Rinser height pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Rinser height adjustment system locked	CAUSE: Sensors detect locked position of height adjustment blocks. ACTION: Unlock to allow height adjustment
Rinser height adjustment system unlocked	CAUSE: Sensors detect unlocked position of height adjustment blocks. ACTION: Lock after completing height adjustment
Machine stop for Rinser height adjustment	CAUSE: Machine rotation suspended for height adjustment. ACTION: Complete height adjustment procedure
Rinser height adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Rinser height adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Rinser height adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Machine emptying for Rinser height adjustment	CAUSE: To avoid crushing containers, machine empties before adjusting height. ACTION:
Filler device in manual mode or in simulation	CAUSE: User has manually commanded a filler device. ACTION: Restore automatic operation of the device
Purge tank not in position	CAUSE: . ACTION: Place tank in correct position
Dummy cup feedback error	CAUSE: Dummy cups jammed or sensor not aligned. ACTION: Make sure all dummy cups are completely inserted or extracted and that feedback sensors work properly
CO2 inlet pressure out of range	CAUSE: Over or underpressure from supply. ACTION: Check supply circuit for problems
Filler product inlet valve out of position	CAUSE: Valve jammed or feedback sensors not aligned. ACTION: Check valve opens and closes completely and sensors work properly



ALARM DESCRIPTION	CAUSE
Lack of product for product pump	CAUSE: Supply is not ready or circuit obstructed. ACTION: Wait for product and check supply circuit for obstructions or losses
Product pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Product pump local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Product pump motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Process infeed manifold not ok	CAUSE: Manifold may be obstructed. ACTION: Check the unit's user manual
Product shaker motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Product shaker local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Product shaker motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Return pump flow missing	CAUSE: Circuit may be obstructed. ACTION: Check the return circuit for obstructions
Return pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Return pump local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Return pump motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Recovery tank sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler tank pressure sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler tank level sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler hot water temperature sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Vacuum pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Vacuum pump local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Vacuum pump drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Filler vacuum sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Product tank temperature sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection



ALARM DESCRIPTION	CAUSE
Product infeed temperature sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Product return temperature sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Too many containers lost at filler infeed	CAUSE: Containers may be falling out of the guides before the filler infeed presence check. ACTION: Check the containers' path for issues
Too many containers lost at filler outfeed	CAUSE: Containers may be falling out of the guides before the filler outfeed presence check. ACTION: Check the containers' path for issues
Container shape not good on filler	CAUSE: Container not loaded correctly on filler. ACTION: Check the container handling between the infeed star and filler
Container burst	CAUSE: Too much pressure exerted or container faulty. ACTION: Lower pressure
Machine stop for head control after bottle burst	CAUSE: Bottle burst. ACTION: Check the integrity of the filling heads after burst before restarting
Bottles burst sensor not in position	CAUSE: Sensor not reading. ACTION: Check correct position and connection
Filler height trasmitter in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler height pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler height adjustment system locked	CAUSE: Blocks are in lock position. ACTION: Unlock before adjusting height
Filler height adjustment system unlocked	CAUSE: Blocks are in unlock position. ACTION: Block after adjusting height
Filler height adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Filler height adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Filler height adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Seamer device in manual mode or in simulation	CAUSE: User has manually commanded a seamer device. ACTION: Restore automatic operation of the device
Seamer conveyor limit switch not engaged	CAUSE: An obstruction caused the limit switch to disengage. ACTION: Check for mechanical obstructions and remove them before rearming the switch
Seamer joint limit switch not engaged	CAUSE: An obstruction caused the limit switch to disengage. ACTION: Check for mechanical obstructions and remove them before rearming the switch
Too many containers lost at seamer infeed	CAUSE: Containers may be falling out of the guides before the seamer infeed presence check. ACTION: Check the containers' path for issues
Too many containers lost at seamer outfeed	CAUSE: Containers may be falling out of the guides before the seamer outfeed presence check. ACTION: Check the containers' path for issues



ALARM DESCRIPTION	CAUSE
Too many lids not released	CAUSE: Channel may be obstructed, lids min accum sensor false reading or lid release not working properly. ACTION: Check lid channel, sensor and release
Containers Jam at seamer outfeed	CAUSE: Wrong handling of containers. ACTION: Remove jammed containers before restarting machine
Seamer height trasmitter in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Seamer height pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Seamer height adjustment system locked	CAUSE: Blocks are in lock position. ACTION: Unlock before adjusting height
Seamer height adjustment system unlocked	CAUSE: Blocks are in unlock position. ACTION: Block after adjusting height
Seamer height adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Seamer height adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Seamer height adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Cylinder for 2nd operation insertion out of position	CAUSE: Mechanical jam. ACTION: Check piston and sensor
Cylinder for 2nd operation blocks out of position	CAUSE: . ACTION: Check blocks and sensor
No lids presence at infeed	CAUSE: Lack of lids. ACTION: Replenish lid supply
Lids vibrator motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Lids vibrator motor local switch of	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Lids vibrator motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Machine stop for low level in oil tank for seamer lubrication	CAUSE: Oil loss. ACTION: Check the circuit for losses, replenish tank
Machine stopped for seamer oil filter clogged	CAUSE: Impurities clogged the filter. ACTION: Carry out maintenance before resuming operation
Seamer oil pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Seamer oil pump motor local switch off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Seamer oil pump motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual

ALARM DESCRIPTION	CAUSE
Seamer pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Seamer pump local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Seamer pump motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Seamer greasing pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Too many greasing cycles failed on seamer	CAUSE: Greasing cycle obstructed or not primed. ACTION: Prime and check for obstructions
Too many greasing cycles with low level on seamer	CAUSE: . ACTION: Replenish grease
Seamer CO2 pressure too low	CAUSE: Supply low or circuit losses. ACTION: Restock supply and check circuit
Seamer CO2 flowrate too low	CAUSE: Supply low or circuit losses. ACTION: Restock supply and check circuit
Filler device in manual mode or in simulation	CAUSE: User has manually commanded a seamer device. ACTION: Restore automatic operation of the device
Recovery Tub feedback error	CAUSE: Tub not fully inserted or extracted or sensor error. ACTION: Check tub position and that sensor is working properly
Tank hatch opened	CAUSE: . ACTION: Close hatch
Filler product inlet valve out of position	CAUSE: Valve jammed or feedback sensors not aligned. ACTION: Check valve opens and closes completely and sensors work properly
Filler cip inlet valve out of position	CAUSE: Valve jammed or feedback sensors not aligned. ACTION: Check valve opens and closes completely and sensors work properly
Filler external washing valve out of position	CAUSE: Valve jammed or feedback sensors not aligned. ACTION: Check valve opens and closes completely and sensors work properly
Filler product pipe drain valve out of position	CAUSE: Valve jammed or feedback sensors not aligned. ACTION: Check valve opens and closes completely and sensors work properly
Filler piston washing nozzles out of position	CAUSE: Valve jammed or feedback sensors not aligned. ACTION: Check valve opens and closes completely and sensors work properly
Process infeed manifold not ok	CAUSE: Manifold may be obstructed. ACTION: Check the unit's user manual
Vibrator motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Brush motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Brush local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Brush motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual



ALARM DESCRIPTION	CAUSE
Return pump flow missing	CAUSE: Obstruction. ACTION: Check circuit for obstructions
Return pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Return pump local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Return pump motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Recovery tank sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Machine stop for priming	CAUSE: Priming necessary. ACTION: Perform priming procedure
Filler tank filling timeout	CAUSE: Supply circuit obstructed or sensor fault. ACTION: Check supply circuit and sensor
Filler tank pressurization timeout	CAUSE: Supply circuit obstructed, sensor fault, or pressure loss. ACTION: Check supply circuit and sensor
Filler tank pressure sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler tank level sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler column pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler column adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Filler column adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Filler column adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Filler volume trasmitter in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler volume pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler volume adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Filler volume adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Filler volume adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Too many containers lost at filler infeed	CAUSE: Containers may be falling out of the guides before the filler infeed presence check. ACTION: Check the containers' path for issues
Too many containers lost at filler outfeed	CAUSE: Containers may be falling out of the guides before the filler outfeed presence check. ACTION: Check the containers' path for issues
Container shape not good	CAUSE: Container not loaded correctly on filler. ACTION: Check the

ALARM DESCRIPTION	CAUSE
on filler	container handling between the infeed star and filler
Stirrer motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Stirrer local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Stirrer motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Filler height trasmitter in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler height pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler height adjustment system locked	CAUSE: Blocks are in lock position. ACTION: Unlock before adjusting height
Filler height adjustment system unlocked	CAUSE: Blocks are in unlock position. ACTION: Block after adjusting height
Filler height adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Filler height adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Filler height adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Capper device in manual mode or in simulation	CAUSE: User has manually commanded a capper device. ACTION: Restore automatic operation of the device
Capper air pressure too low	CAUSE: Supply problem or pressure loss in circuit. ACTION: Check supply and circuit, as well as sensor
Too many caps not released	CAUSE: Cap jam or release not working properly. ACTION: Check channel and release
Too many bottles not closed	CAUSE: Sensor malfunction or capping heads not working. ACTION: Diagnose and fix the capping problem, you may inhibit the head(s) not working to finish production before maintenance
Too many high caps on bottles	CAUSE: Sensor malfunction or capping heads not working. ACTION: Diagnose and fix the capping problem, you may inhibit the head(s) not working to finish production before maintenance
Too many foils missed	CAUSE: Sensor malfunction or cap supply quality low. ACTION: Check sensor or load caps with foil
Too many containers lost at capper infeed	CAUSE: Containers may be falling out of the guides before the capper infeed presence check. ACTION: Check the containers' path for issues
Too many containers lost at capper outfeed	CAUSE: Containers may be falling out of the guides before the capper outfeed presence check. ACTION: Check the containers' path for issues
Caps hopper blocked	CAUSE: Rotation obstructed. ACTION: Remove jammed caps and resume operation



ALARM DESCRIPTION	CAUSE
Caps hopper empty	CAUSE: . ACTION: Check cap supply
Caps hopper motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Caps hopper motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Caps hopper motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Caps jammed in channel	CAUSE: . ACTION: Remove jammed caps and resume operation
Caps supplier empty	CAUSE: . ACTION: Load caps
Caps head rotation motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Caps head rotation motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Caps head rotation motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Caps head rotation motor fan fault	CAUSE: Motor fan in fault. ACTION: Check the fan motor and its power supply
Caps head rotation motor brake fault	CAUSE: Motor brake fault. ACTION: Check the brake
UpSideDown Caps in channel	CAUSE: . ACTION: Remove upside down caps and resume operation
Capper vacuum pump motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Capper vacuum pump motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Capper vacuum pump motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Capper 1 height trasmitter in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Capper 1 height pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Capper 1 height adjustment system locked	CAUSE: Blocks are in lock position. ACTION: Unlock before adjusting height
Capper 1 height adjustment system unlocked	CAUSE: Blocks are in unlock position. ACTION: Block after adjusting height
Capper 1 height adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Capper 1 height adjustment motor local	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor



ALARM DESCRIPTION	CAUSE
isolator off	
Capper 1 height adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Capper Lock Unlock rotation valve feedback fault	CAUSE: . ACTION: Check feedback sensor
Capper Inferior\Superior NOT aligned	CAUSE: Capper turret disaligned. ACTION: Align capper turret
Caps supply motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Caps supply motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Caps supply motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Capper dust aspirator motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Capper dust aspirator motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Capper dust aspirator motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Caps ionizer fault	CAUSE: . ACTION: Check the unit's diagnostic and user manual
Caps ionizer local isolator off	CAUSE: . ACTION: Confirm that there are no safety problems and reconnect the unit
Capper 2 height trasmitter in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Capper 2 height pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Capper 2 height adjustment system locked	CAUSE: Blocks are in lock position. ACTION: Unlock before adjusting height
Capper 2 height adjustment system unlocked	CAUSE: Blocks are in unlock position. ACTION: Block after adjusting height
Capper 2 height adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Capper 2 height adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Capper 2 height adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual



ALARM DESCRIPTION	CAUSE
Container jam at machine exit	CAUSE: Wrong handling of containers. ACTION: Remove jammed containers before restarting machine
Fallen container at infeed	CAUSE: Wrong handling of containers. ACTION: Remove fallen container
Fallen container at outfeed	CAUSE: Wrong handling of containers. ACTION: Remove fallen container
Reject table full	CAUSE: . ACTION: Clear table
Line device in manual or in simulation	CAUSE: User has manually commanded a line device. ACTION: Restore automatic operation of the device
Container not oriented in wormscrew	CAUSE: Wrong handling of containers. ACTION: Position container correctly
Infeed conveyor motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Infeed conveyor motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Infeed conveyor motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Infeed conveyor motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Infeed conveyor motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Infeed conveyor motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Infeed conveyor motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Infeed conveyor motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Infeed conveyor motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Outfeed conveyor motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Outfeed conveyor motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Outfeed conveyor motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Outfeed conveyor motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Outfeed conveyor motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Outfeed conveyor motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Outfeed conveyor motor	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check

ALARM DESCRIPTION	CAUSE
fault	the motor and its power supply
Outfeed conveyor motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Outfeed conveyor motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Reset pushbutton in fault	CAUSE: . ACTION: Check wiring of reset pushbutton
Power On pushbutton in fault	CAUSE: . ACTION: Check wiring of power-on pushbutton
Speed sensor 1 detected overspeed in JOG mode	CAUSE: . ACTION: Decrease jog speed. Check speed sensor 1 position
Speed sensor 2 detected overspeed in JOG mode	CAUSE: . ACTION: Decrease jog speed. Check speed sensor 2 position
Speed sensor 1 detected overspeed in AUTO mode	CAUSE: . ACTION: Decrease automatic speed. Check speed sensor 1 position
Speed sensor 2 detected overspeed in AUTO mode	CAUSE: . ACTION: Decrease automatic speed. Check speed sensor 2 position
Both Speed sensor 1 and 2 are OFF or, machine running and one sensor detected zero speed	CAUSE: . ACTION: Check wiring of speed sensors
Cause active - Speed check	CAUSE: . ACTION: Decrease machine speed. Check wiring of speed sensors
General emergency pushbutton pressed (QE+HMI)	CAUSE: . ACTION: Release QE or HMI emergency pushbutton
Blue zone emergency pushbutton pressed	CAUSE: . ACTION: Release blue zone emergency pushbutton
Green zone emergency pushbutton pressed	CAUSE: . ACTION: Release green zone emergency pushbutton
Yellow zone emergency pushbutton pressed	CAUSE: . ACTION: Release yellow zone emergency pushbutton
Orange zone emergency pushbutton pressed	CAUSE: . ACTION: Release orange zone emergency pushbutton
Red zone emergency pushbutton pressed	CAUSE: . ACTION: Release red zone emergency pushbutton
White zone emergency pushbutton pressed	CAUSE: . ACTION: Release white zone emergency pushbutton
Cause active - Emergency pushbutton pressed	CAUSE: . ACTION: Release emergency pushbuttons
External package emergency pushbutton 1 pressed	CAUSE: . ACTION: Release external package 1 emergency pushbutton



ALARM DESCRIPTION	CAUSE
External package emergency pushbutton 2 pressed	CAUSE: . ACTION: Release external package 2 emergency pushbutton
External package emergency pushbutton 3 pressed	CAUSE: . ACTION: Release external package 3 emergency pushbutton
External package emergency pushbutton 4 pressed	CAUSE: . ACTION: Release external package 4 emergency pushbutton
Skid package emergency pushbutton pressed	CAUSE: . ACTION: Release skid package emergency pushbutton
Cause active - External emergency pushbutton pressed	CAUSE: . ACTION: Release external package emergency pushbuttons
Cause active - Handwheel door opened	CAUSE: . ACTION: Close handwheel door
Cause active - Hopper door opened	CAUSE: . ACTION: Close hopper door
Timeout access request: access request done and machine still running after 8s	CAUSE: . ACTION: Check decelerating ramp
Cause active - Access request	CAUSE: . ACTION: Close all zones and reset all request access
Cause active - Feedback effect states fault	CAUSE: . ACTION: Check wiring of feedback safety actuators (emergency contactors, valves, ...)
Alarm Power ON necessary	CAUSE: . ACTION: Safety effects could be resetted, press power-on pushbutton
Cause active - Wash door opened	CAUSE: . ACTION: Close washer package doors
Cause active - Mode changing in running	CAUSE: . ACTION: Do not switch key-mode selector until machine is running
Cause active - SS2 or SOS request	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Cause active - Motion encoder interfaces fault	CAUSE: . ACTION: Check wiring of motion encoder cables
Effect active - Command emergency logic contactors	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Alarm discrepancy feedback and command logic emergency contactors	CAUSE: . ACTION: Check wiring of main emergency contactor feedbacks

ALARM DESCRIPTION	CAUSE
Effect active - Command emergency external contactors	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Alarm discrepancy feedback and command emergency external contactors	CAUSE: . ACTION: Check wiring of external emergency contactor feedbacks
Effect active - Command emergency hopper motor	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Alarm discrepancy feedback and command emergency hopper motor	CAUSE: . ACTION: Check wiring of hopper emergency contactor feedbacks
Effect active - Command general air valve	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Alarm discrepancy command general air valve and feedback general air valve, Hot H2O valve, CO2 valve, Product valve , CIP valve	CAUSE: . ACTION: Check wiring of valves feedback
Alarm jog running not possible (mismatch open zone and jog command)	CAUSE: . ACTION: Check if the one and only zone open matches the jog plugged in
Effect active - Command SS2 motion master drive	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Fault SS2 function Motion	CAUSE: . ACTION: Check wiring of SS2 motion master feedback
Effect active - Command STO motion	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Alarm discrepancy feedback and command STO motion	CAUSE: . ACTION: Check wiring of STO motion feedback
Effect active - Command STO drive main	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Alarm discrepancy feedback and command STO drive main	CAUSE: . ACTION: Check wiring of STO drive main feedback
Effect active - Command STO drive	CAUSE: . ACTION: Restore the causes (refer to safety matrix) and then reset the effect
Alarm discrepancy feedback and command STO drive	CAUSE: . ACTION: Check wiring of STO drive feedback
Effect active - Command unlock blue zone	CAUSE: . ACTION: Close blue zone doors and reset the unlock request
Alarm discrepancy	CAUSE: . ACTION: Check wiring of guard locking feedbacks for blue



ALARM DESCRIPTION	CAUSE
feedback and command unlock blue zone	zone. Lock blue zone request and at least one door not closed
Effect active - Command unlock green zone	CAUSE: . ACTION: Close green zone doors and reset the unlock request
Alarm discrepancy feedback and command unlock green zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for green zone. Lock green zone request and at least one door not closed
Effect active - Command unlock yellow zone	CAUSE: . ACTION: Close yellow zone doors and reset the unlock request
Alarm discrepancy feedback and command unlock yellow zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for yellow zone. Lock yellow zone request and at least one door not closed
Effect active - Command unlock orange zone	CAUSE: . ACTION: Close orange zone doors and reset the unlock request
Alarm discrepancy feedback and command unlock orange zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for orange zone. Lock orange zone request and at least one door not closed
Effect active - Command unlock red zone	CAUSE: . ACTION: Close red zone doors and reset the unlock request
Alarm discrepancy feedback and command unlock red zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for red zone. Lock red zone request and at least one door not closed
Effect active - Command unlock white zone	CAUSE: . ACTION: Close white zone doors and reset the unlock request
Alarm discrepancy feedback and command unlock white zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for white zone. Lock white zone request and at least one door not closed
Effect active - Command unlock washer zone	CAUSE: . ACTION: Close washer doors and reset the unlock request
Alarm discrepancy feedback and command unlock washer zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for washer zone. Lock washer zone request and at least one door not closed
Effect active - Command SLS Motion	CAUSE: . ACTION: Mode selector in jog mode, switch to automatic mode
Fault SLS function Motion	CAUSE: . ACTION: Check wiring of SLS motion feedback
1002 hardware fault - Discrepancy general emergency pushbutton (QE+HMI)	CAUSE: . ACTION: Check wiring QE or HMI emergency pushbutton
1002 hardware fault - Discrepancy mode selector	CAUSE: . ACTION: Check wiring mode selector
1002 hardware fault -	CAUSE: . ACTION: Check wiring jog in doors open mode selector

ALARM DESCRIPTION	CAUSE
Discrepancy jog in doors open mode selector	
1002 hardware fault - Discrepancy external package emergency pushbutton 1 pressed	CAUSE: . ACTION: Check wiring external package 1 emergency pushbutton
1002 hardware fault - Discrepancy external package emergency pushbutton 2 pressed	CAUSE: . ACTION: Check wiring external package 2 emergency pushbutton
1002 hardware fault - Discrepancy external package emergency pushbutton 3 pressed	CAUSE: . ACTION: Check wiring external package 3 emergency pushbutton
1002 hardware fault - Discrepancy external package emergency pushbutton 4 pressed	CAUSE: . ACTION: Check wiring external package 3 emergency pushbutton
1002 hardware fault - Discrepancy skid package emergency pushbutton pressed	CAUSE: . ACTION: Check wiring skid package emergency pushbutton
1002 hardware fault - Discrepancy doors switch hopper	CAUSE: . ACTION: Check wiring of guard locking feedbacks for hopper zone
1002 hardware fault - Discrepancy doors switch handwheel	CAUSE: . ACTION: Check wiring of guard locking feedbacks for handwheel zone. Lock handwheel request and door not closed
1002 hardware fault - Discrepancy jog pushbutton blue zone	CAUSE: . ACTION: Check wiring of jog pushbutton blue zone. Press jog pushbutton blue zone in the right way
1002 hardware fault - Discrepancy doors closed and locked blue zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for blue zone
1002 hardware fault - Discrepancy emergency pushbutton blue zone	CAUSE: . ACTION: Check wiring of emergency pushbutton blue zone
1002 hardware fault - Discrepancy open request selector blue zone	CAUSE: . ACTION: Check wiring of open request selector blue zone
1002 hardware fault - Discrepancy jog pushbutton green zone	CAUSE: . ACTION: Check wiring of jog pushbutton green zone. Press jog pushbutton green zone in the right way
1002 hardware fault - Discrepancy doors closed and locked green zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for green zone

ALARM DESCRIPTION	CAUSE
1002 hardware fault - Discrepancy emergency pushbutton green zone	CAUSE: . ACTION: Check wiring of emergency pushbutton green zone
1002 hardware fault - Discrepancy open request selector green zone	CAUSE: . ACTION: Check wiring of open request selector green zone
1002 hardware fault - Discrepancy jog pushbutton yellow zone	CAUSE: . ACTION: Check wiring of jog pushbutton yellow zone, Press jog pushbutton yellow zone in the right way
1002 hardware fault - Discrepancy doors closed and locked yellow zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for yellow zone
1002 hardware fault - Discrepancy emergency pushbutton yellow zone	CAUSE: . ACTION: Check wiring of emergency pushbutton yellow zone
1002 hardware fault - Discrepancy open request selector yellow zone	CAUSE: . ACTION: Check wiring of open request selector yellow zone
1002 hardware fault - Discrepancy jog pushbutton orange zone	CAUSE: . ACTION: Check wiring of jog pushbutton orange zone. Press jog pushbutton orange zone in the right way
1002 hardware fault - Discrepancy doors closed and locked orange zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for orange zone
1002 hardware fault - Discrepancy emergency pushbutton orange zone	CAUSE: . ACTION: Check wiring of emergency pushbutton orange zone
1002 hardware fault - Discrepancy open request selector orange zone	CAUSE: . ACTION: Check wiring of open request selector orange zone
1002 hardware fault - Discrepancy jog pushbutton red zone	CAUSE: . ACTION: Check wiring of jog pushbutton red zone. Press jog pushbutton red zone in the right way
1002 hardware fault - Discrepancy doors closed and locked red zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for red zone
1002 hardware fault - Discrepancy emergency pushbutton red zone	CAUSE: . ACTION: Check wiring of emergency pushbutton red zone
1002 hardware fault - Discrepancy open request selector red zone	CAUSE: . ACTION: Check wiring of open request selector red zone
1002 hardware fault - Discrepancy jog pushbutton white zone	CAUSE: . ACTION: Check wiring of jog pushbutton white zone. Press jog pushbutton white zone in the right way"

ALARM DESCRIPTION	CAUSE
1002 hardware fault - Discrepancy doors closed and locked white zone	CAUSE: . ACTION: Check wiring of guard locking feedbacks for white zone
1002 hardware fault - Discrepancy emergency pushbutton white zone	CAUSE: . ACTION: Check wiring of emergency pushbutton white zone
1002 hardware fault - Discrepancy open request selector white zone	CAUSE: . ACTION: Check wiring of open request selector white zone
Motion device in manual or simulation	CAUSE: User has manually commanded a motion device. ACTION: Restore automatic operation of the device
Motion Thermal Overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit
Main motor in fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Main motor local isolator fault	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Main motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Main motor fan fault	CAUSE: Motor fan in fault. ACTION: Check the fan motor and its power supply
Rinser infeed starwheel limit switch open	CAUSE: An obstruction caused the limit switch to disengage. ACTION: Check for mechanical obstructions and remove them before rearming the switch
Rinser outfeed starwheel limit switch open	CAUSE: An obstruction caused the limit switch to disengage. ACTION: Check for mechanical obstructions and remove them before rearming the switch
Filler infeed starwheel limit switch open	CAUSE: An obstruction caused the limit switch to disengage. ACTION: Check for mechanical obstructions and remove them before rearming the switch
Filler outfeed starwheel limit switch open	CAUSE: An obstruction caused the limit switch to disengage. ACTION: Check for mechanical obstructions and remove them before rearming the switch
Capper infeed starwheel limit switch open	CAUSE: An obstruction caused the limit switch to disengage. ACTION: Check for mechanical obstructions and remove them before rearming the switch
Capper outfeed starwheel limit switch open	CAUSE: An obstruction caused the limit switch to disengage. ACTION: Check for mechanical obstructions and remove them before rearming the switch
Container blocked in infeed wormscrew	CAUSE: . ACTION: Remove container before resuming operation
Container blocked in wormscrew 2	CAUSE: . ACTION: Remove container before resuming operation



ALARM DESCRIPTION	CAUSE
Container blocked in wormscrew 3	CAUSE: . ACTION: Remove container before resuming operation
Encoder master homing necessary	CAUSE: . ACTION: Perform homing procedure
Encoder master in fault	CAUSE: . ACTION: Check sensor
Motion system not ready	CAUSE: . ACTION: Perform homing and phasing procedures as requested
Motion system in error	CAUSE: . ACTION: Check motion diagnostics
Filler cam height trasmitter in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler cam height pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
Filler cam adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
Filler cam adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
Filler cam adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
VentTube height trasmitter in fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
VentTube height pulse sensor in fault (No pulse detect)	CAUSE: Sensor fault. ACTION: Check correct position and connection
VentTube height adjustment motor fault	CAUSE: Motor may be damaged or rotation obstructed. ACTION: Check the motor and its power supply
VentTube height adjustment motor local isolator off	CAUSE: Motor was manually disconnected using local isolator. ACTION: Confirm that there are no safety problems and reconnect the motor
VentTube height adjustment motor drive fault	CAUSE: Motor drive unit is in fault. ACTION: Check the unit's diagnostic and user manual
Vacuum not present in vent tube	CAUSE: . ACTION: Check vacuum pump and circuit
Recipe not updated in filling stations	CAUSE: A recipe change was detected by modules. ACTION: Give the machine a full rotation to update modules
Test recipe is running in filling station	CAUSE: . ACTION: Accept and download recipe after aproval or discard after disaproval
Filling cylinder in error	CAUSE: May require homing. ACTION: Perform homing procedure on cylinders with error
Load cell nr. in error	CAUSE: . ACTION: Use loadcell diagnostics



ALARM DESCRIPTION	CAUSE
Maximum filling angle reached during filling	CAUSE: Filling time exceeded limit. ACTION: Adjust the recipe to fill faster or lower rotation speed
Skimmer heater thermal overload	CAUSE: Possible electrical failure, diagnostic needed. ACTION: Diagnose possible problems and close circuit
Skimmer heater temperature sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection
Skimmer temperature sensor fault	CAUSE: Sensor fault. ACTION: Check correct position and connection





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8.1 WIRING DIAGRAM



CFT S.p.A
Via Paradigna, 94/A
43122 - Parma - Italy
Phone. +39 0521 277111
info@cft-group.com

CUSTOMER: HOYNE BREWING CANADA
MACHINE TYPE: FILLER + SEAMER
MODEL: MBW RS10 + 2000/2
SERIAL NUMBER: M9947 + M9948
COMMISSION: 18A873

MANUFACTURER: CFT S.p.A
PROJECT NUMBER: 6-6570277
PLACE OF INSTALLATION: CANADA

CREATED ON: 30/08/2019
LAST MODIFY: 20/04/2020

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			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
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			VER.	F.Tedeschi						
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M9948	MP	392	[+MP] INPUT MODULE		30/08/2019	GCagna
	MP	397	[+MP] SAFETY OUTPUT		30/08/2019	GCagna
	MP	398	[+MP] SAFETY OUTPUT		30/08/2019	GCagna
	MP	414	[+MP] OUTPUT MODULE		20/11/2019	GCagna
	MP	415	[+MP] OUTPUT MODULE		20/11/2019	GCagna
	MP	416	[+MP] OUTPUT MODULE		20/11/2019	GCagna
	MP	417	[+MP] OUTPUT MODULE		20/11/2019	GCagna
	MP	430	[+MP] OUTPUT MODULE		30/08/2019	GCagna
	MP	431	[+MP] OUTPUT MODULE		30/08/2019	GCagna
	MP	434	[+MP] OUTPUT MODULE		30/08/2019	GCagna
	MP	435	[+MP] OUTPUT MODULE		30/08/2019	GCagna
	MP	445	[+MP] ANALOG OUTPUT MODULE		20/11/2019	GCagna
	MP	450	[ITC] SAFETY		30/08/2019	GCagna
	MP	460	[ITC] INFEED CONVEYOR		20/11/2019	GCagna
	MP	462	[ITC] OUTFEED CONVEYOR		04/10/2019	GCagna
	MP	468	[ITC] PRODUCT SUPPLY		30/08/2019	GCagna
	MP	469	[ITC] H2O SUPPLY		02/09/2019	GCagna
	MP	470	[ITC] LEVEL CONTROL		30/08/2019	GCagna

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Higher-level function	Mounting location	Page	Page description	supplementary page field	Date	Edited by
M9948	MP	482	[ITC] CIP STATION		30/08/2019	GCagna
	MP	483	[ITC] CIP STATION		30/08/2019	GCagna
	IC	590	[+MP] OUTPUT MODULE		03/09/2019	GCagna
	FB	781	[+FB] FILLER BASE		30/08/2019	GCagna
	FB	784	[+FB] FILLER BASE		30/08/2019	GCagna
	FB	786	[+FB] FILLER BASE		30/08/2019	GCagna
	FB	787	[+FB] FILLER BASE		30/08/2019	GCagna
	FB	825	[+FB] FILLER BASE		20/11/2019	GCagna
	JB2FR	870	[+JB2FR] FILLER ROTATING BOX 2		30/08/2019	GCagna
	JB3FR	871	[+JB3FR] FILLER ROTATING BOX 3		30/08/2019	GCagna
	FR	885	[+FR] FILLER ROTATING SIDE		30/08/2019	GCagna
	FR	956	[+FR] FILLER ROTATING SIDE		30/08/2019	GCagna
	FR	957	[+FR] FILLER ROTATING SIDE		30/08/2019	GCagna
	FR	958	[+FR] FILLER ROTATING SIDE		30/08/2019	GCagna
	SE	1380	[+SE] SEAMER		30/08/2019	GCagna
	SE	1381	[+SE] SEAMER		20/11/2019	GCagna
	SE	1382	[+SE] SEAMER		20/11/2019	GCagna
	SE	1385	[+SE] SEAMER		20/11/2019	GCagna

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Higher-level function	Mounting location	Page	Page description	supplementary page field	Date	Edited by
M9948	SE	1390	[+SE] SEAMER		20/11/2019	GCagna
	OC	1600	[+OC] OUTFEED CONVEYOR		20/11/2019	GCagna
	FSK	1880	[+FSK] FILLER SKID		30/08/2019	GCagna
	FSK	1881	[+FSK] FILLER SKID		30/08/2019	GCagna
	FSK	1883	[+FSK] FILLER SKID		20/11/2019	GCagna
	FSK	1884	[+FSK] FILLER SKID		20/11/2019	GCagna
	FSK	1885	[+FSK] FILLER SKID		20/11/2019	GCagna
	FSK	1886	[+FSK] FILLER SKID		30/08/2019	GCagna
	FSK	1887	[+FSK] FILLER SKID		30/08/2019	GCagna
	FSK	1888	[+FSK] FILLER SKID		30/08/2019	GCagna
	JOG	2000	[+JOG] MACHINE JOG PLUG		30/08/2019	GCagna
	JOG	2001	[+JOG] BLUE ZONE: MACHINE JOG PLUG		30/08/2019	GCagna
	JOG	2002	[+JOG] GREEN ZONE: MACHINE JOG PLUG		30/08/2019	GCagna
	JOG	2003	[+JOG] YELLOW ZONE: MACHINE JOG PLUG		30/08/2019	GCagna
	HSD	2051	[+HSD] DOOR SAFETY SWITCH 01		30/08/2019	GCagna
	HSD	2052	[+HSD] DOOR SAFETY SWITCH 02		30/08/2019	GCagna
	HSD	2053	[+HSD] DOOR SAFETY SWITCH 03		30/08/2019	GCagna
	HSD	2054	[+HSD] DOOR SAFETY SWITCH 04		30/08/2019	GCagna

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Higher-level function	Mounting location	Page	Page description	supplementary page field	Date	Edited by
M9948	HSD	2055	[+HSD] DOOR SAFETY SWITCH 05		20/11/2019	GCagna
	HSD	2070	[+HSD] SEAMER HANDWHEEL SAFETY SWITCH		20/11/2019	GCagna
	HSD	2091	[+HSD] LIGHT TOWER 1		20/11/2019	GCagna
	HSD	2092	[+HSD] LIGHT TOWER 2		20/11/2019	GCagna
	CB1S	2101	[+CB1S] BLUE ZONE: UNLOCK DOORS KEYBOARD		20/11/2019	GCagna
	CB2S	2102	[+CB2S] GREEN ZONE: UNLOCK DOORS KEYBOARD		20/11/2019	GCagna
	CB3S	2103	[+CB3S] YELLOW ZONE: UNLOCK DOORS KEYBOARD		20/11/2019	GCagna
	CB7S	2107	[+CB7S] FILLER SKID: EMERGENCY BUTTON		20/11/2019	GCagna
REPORT	PART	4000	PARTS LIST		03/09/2019	GCagna
	PART	4001	PARTS LIST		20/11/2019	GCagna
	PART	4002	PARTS LIST		20/11/2019	GCagna
	PART	4003	PARTS LIST		20/11/2019	GCagna
	PART	4004	PARTS LIST		20/11/2019	GCagna
	PART	4005	PARTS LIST		20/11/2019	GCagna
	PART	4006	PARTS LIST		20/11/2019	GCagna
	PART	4007	PARTS LIST		20/11/2019	GCagna
	PART	4008	PARTS LIST		20/11/2019	GCagna
	CABLE	5000	SUMMARY CABLES		03/09/2019	GCagna

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Higher-level function	Mounting location	Page	Page description	supplementary page field	Date	Edited by
REPORT	CABLE	5001	SUMMARY CABLES		20/11/2019	GCagna
	CABLE	5002	SUMMARY CABLES		20/11/2019	GCagna
	CABLE	5003	SUMMARY CABLES		20/11/2019	GCagna
	CABLE	6000	CABLE DIAGRAM		03/09/2019	GCagna
	CABLE	6001	CABLE DIAGRAM		03/09/2019	GCagna
	CABLE	6002	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6003	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6004	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6005	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6006	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6007	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6008	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6009	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6010	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6011	CABLE DIAGRAM		13/12/2019	GCagna
	CABLE	6012	CABLE DIAGRAM		20/11/2019	GCagna
	CABLE	6013	CABLE DIAGRAM		20/11/2019	GCagna
	CABLE	6014	CABLE DIAGRAM		03/09/2019	GCagna

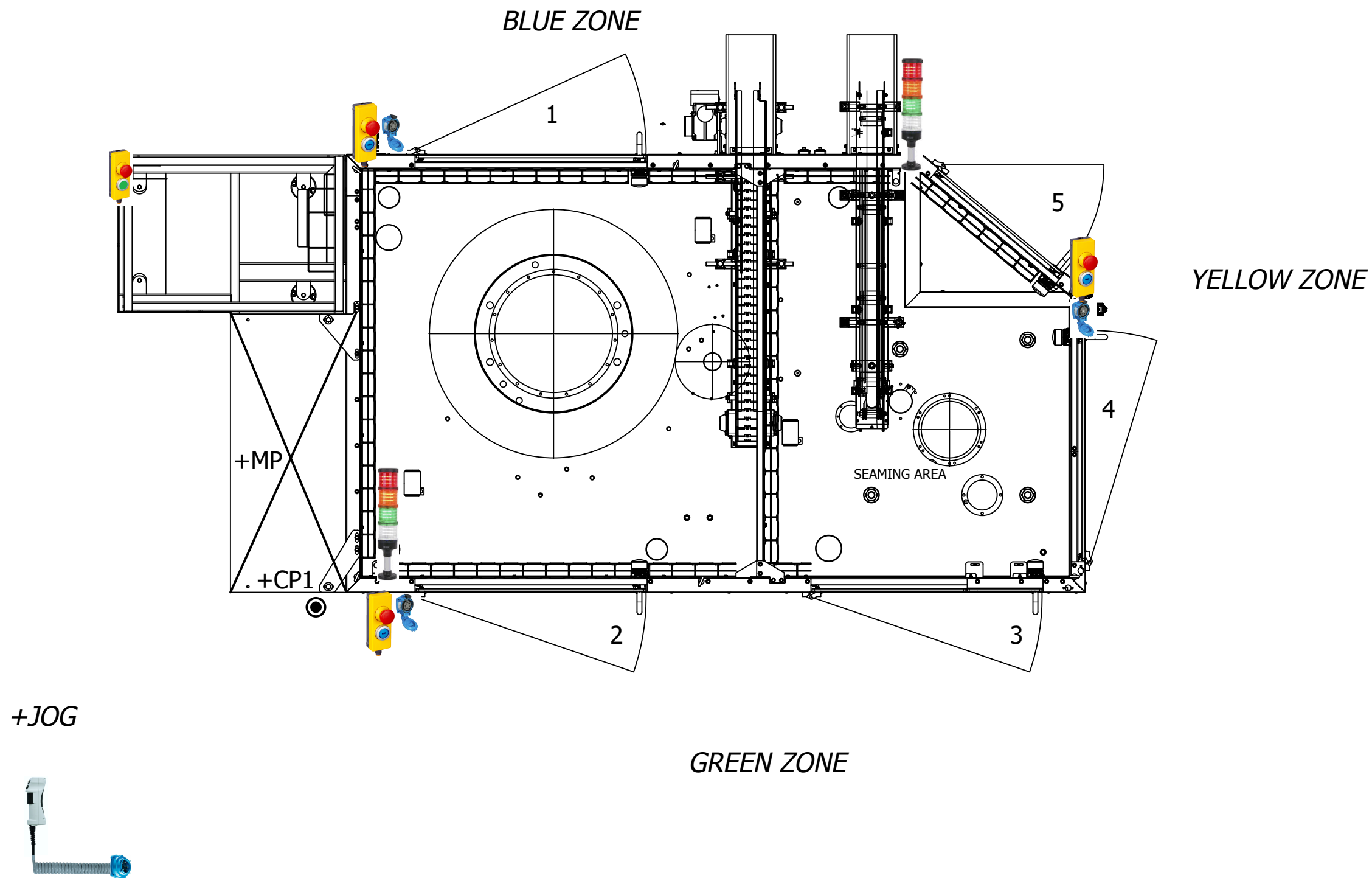
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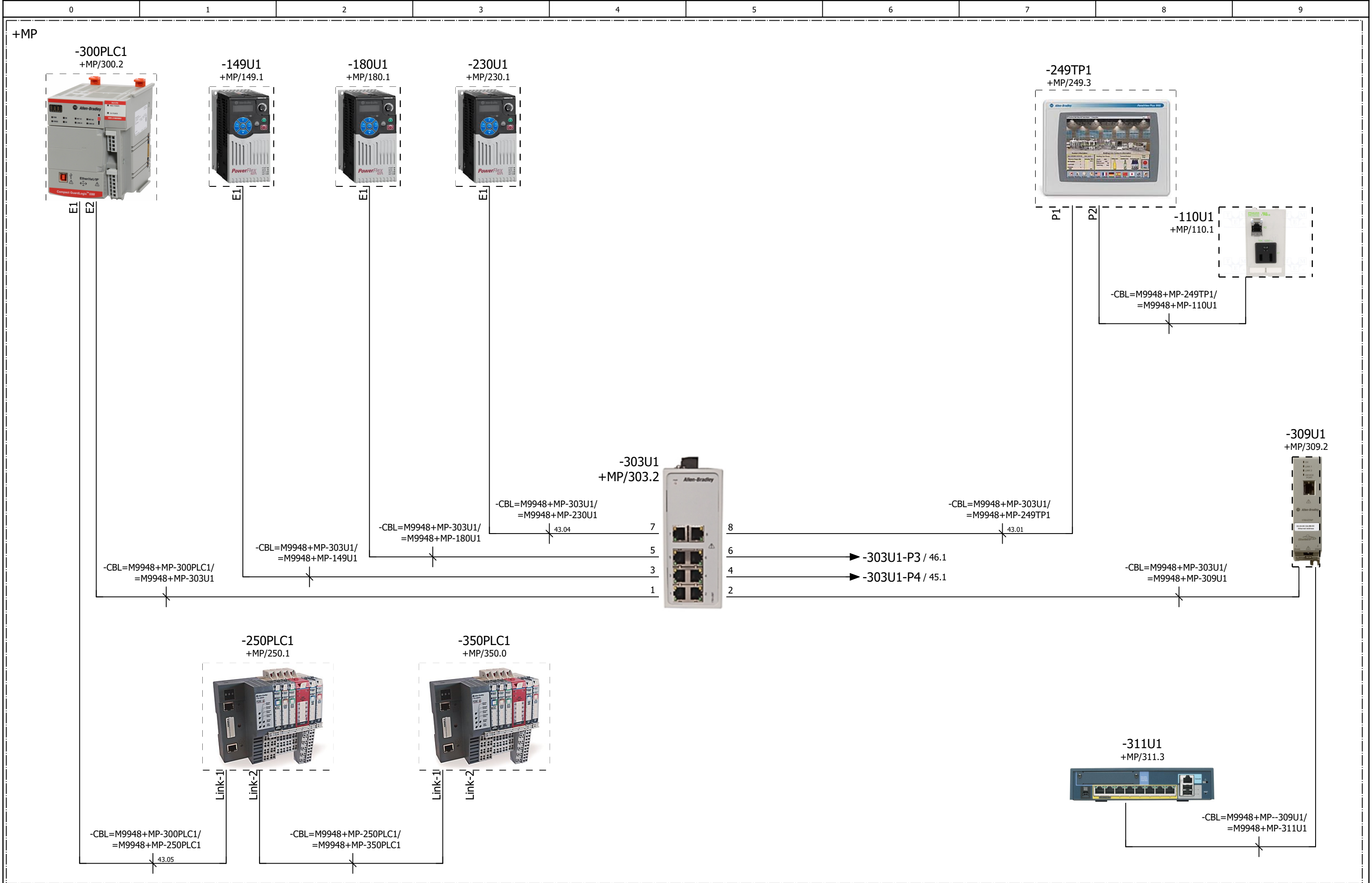
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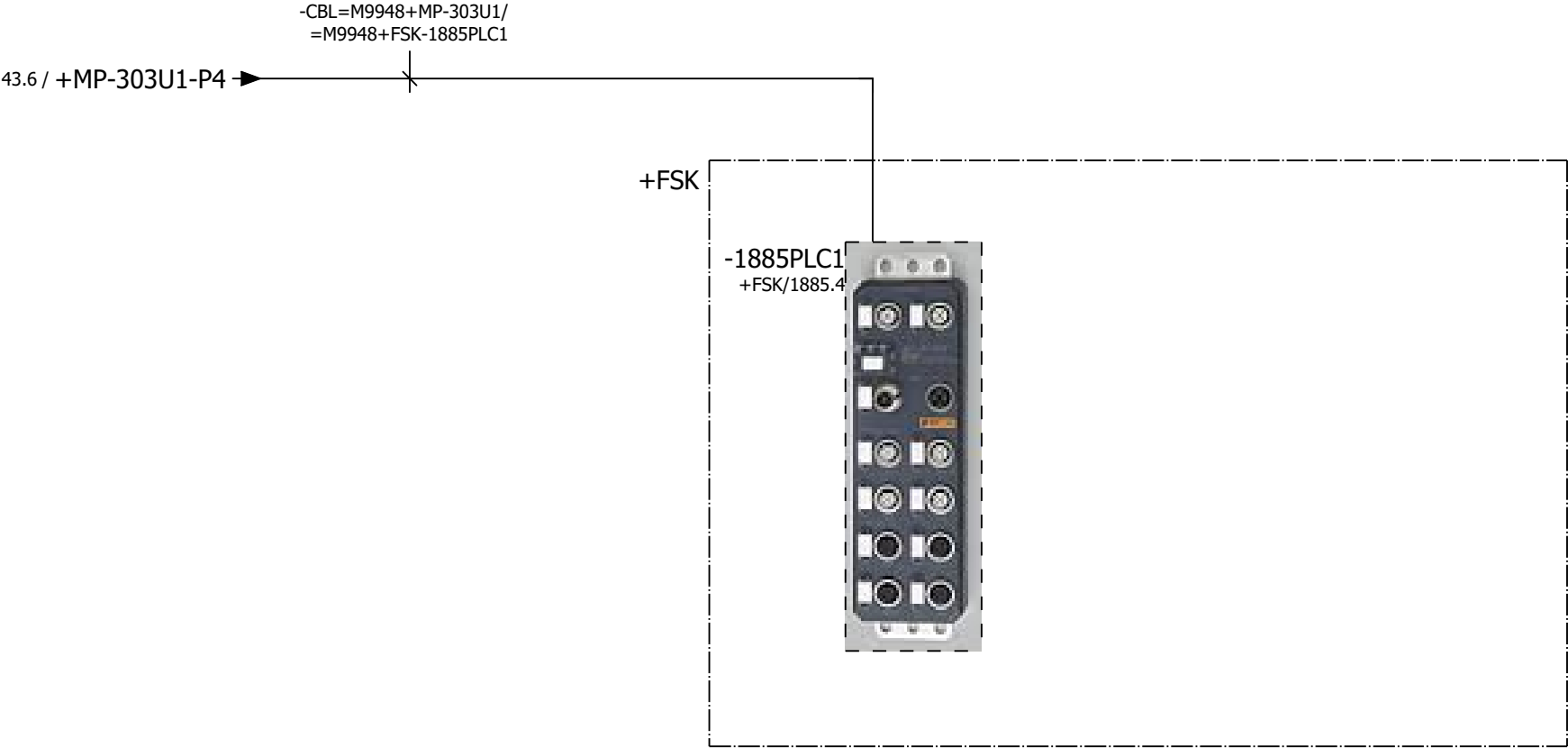
Higher-level function	Mounting location	Page	Page description	supplementary page field	Date	Edited by
REPORT	CABLE	6015	CABLE DIAGRAM		03/09/2019	GCagna
	CABLE	6016	CABLE DIAGRAM		03/09/2019	GCagna
	CABLE	6017	CABLE DIAGRAM		03/09/2019	GCagna

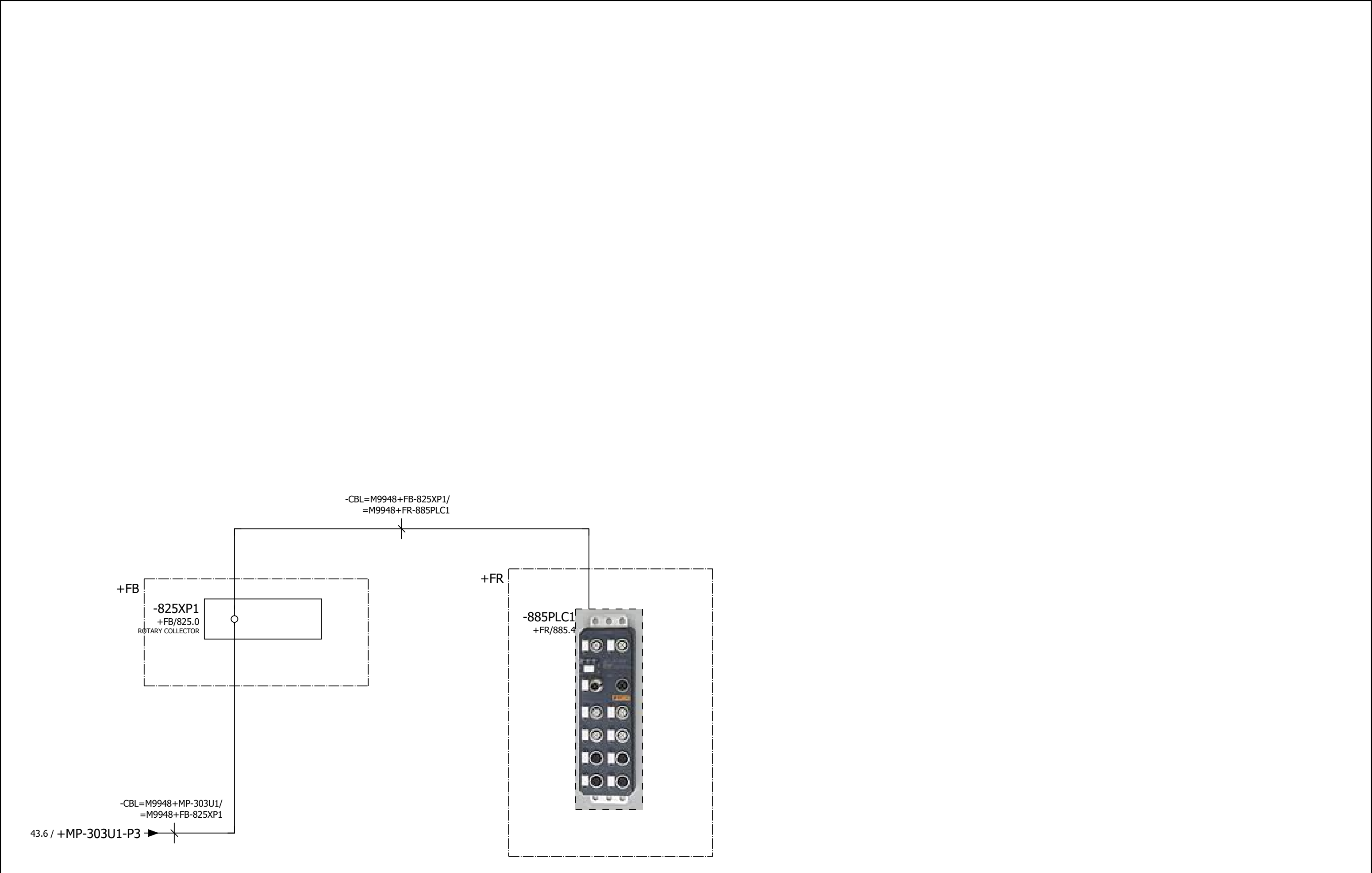
NAME PLATE UL508A

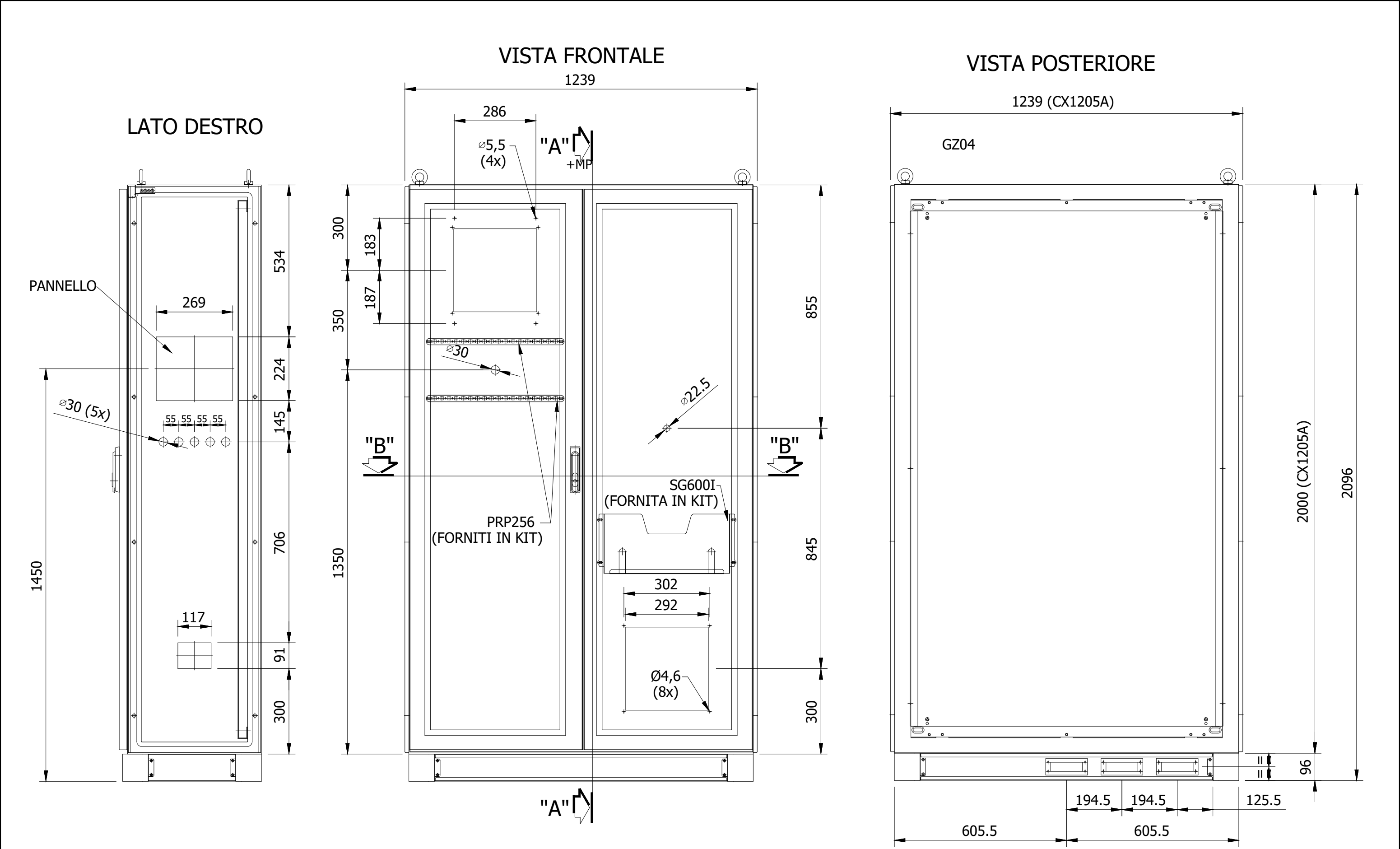
	CFT S.p.a. Via Paradigna,94/a 43122 - Parma - Italy
Voltage	480 Y/277 V
Phase,frequency	3PH+PE (480 VAC) 60 Hz
Total FLA	22,2 A
Largest motor FLA	10,30 A
Largest heater hold FLA	-
SCCR	10kA
Enclosure type	TYPE 12
Field wiring diagram	6-6570277
Industrial control panel for industrial machinery	

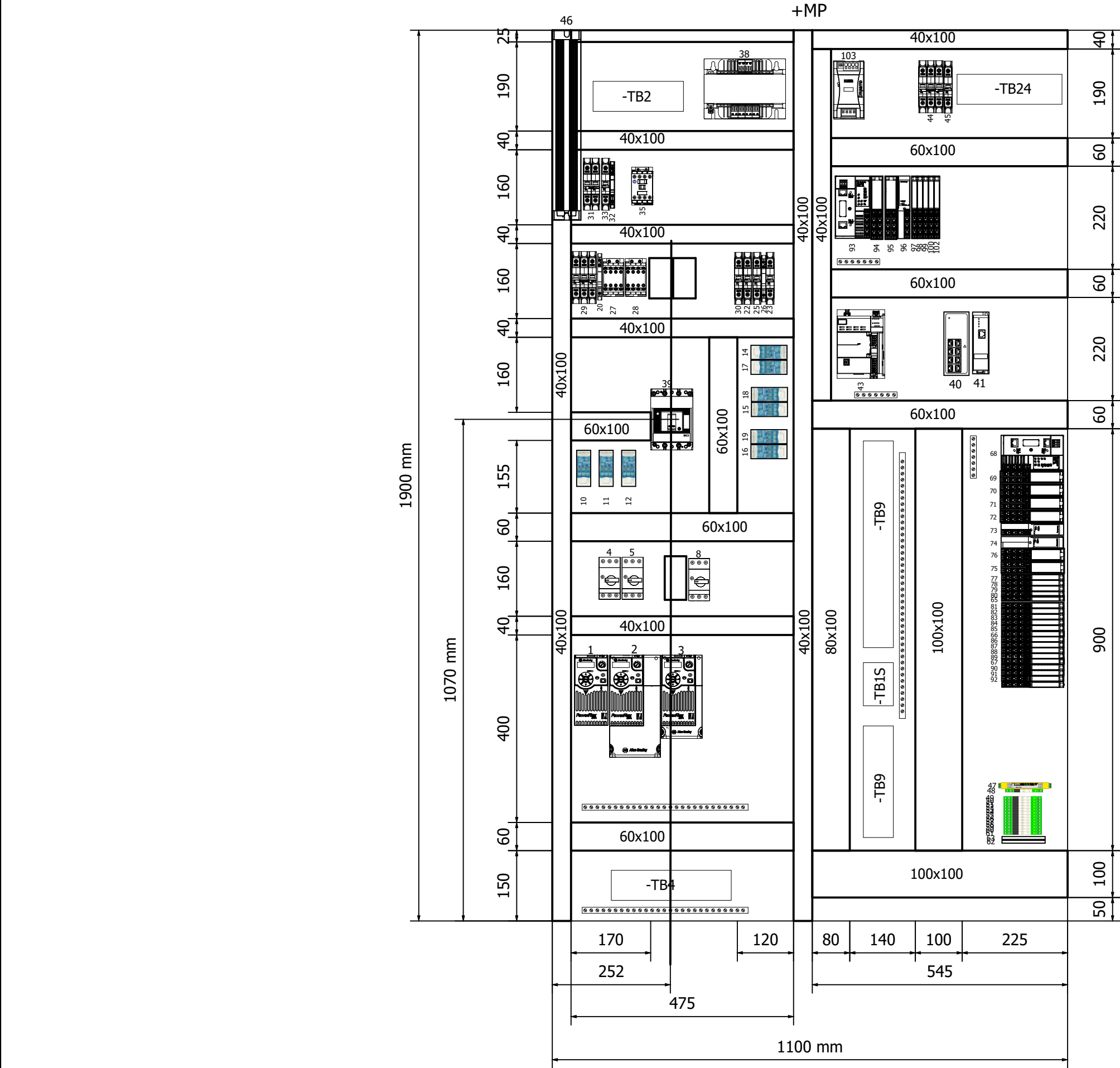










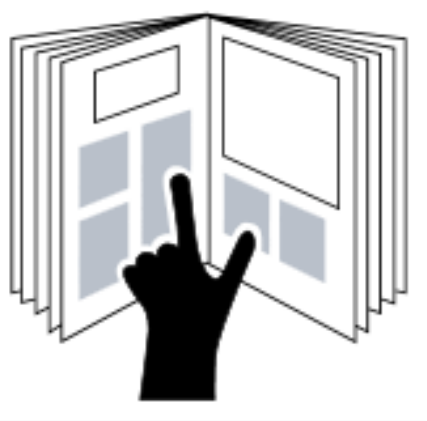


ELECTRICAL CABINET ADHESIVE

TK.LB.W0030.AEC

+MP

**WARNING**



Read and understand operator's manual before using this machine.

Failure to follow operating instructions could result in death or serious injury.

TK.LB.W0030_E_

TK.LB.W0080.AEC

+MP

**WARNING**

To maintain overcurrent, short-circuit, and ground-fault protection, the manufacturer's instructions for selection of overload and short circuit protection must be followed to reduce the risk of fire or electric shock.

If an overload or a fault current interruption occurs, circuits must be checked to determine the cause of the interruption.

If a fault condition exists, the current-carrying components should be examined and replaced if damaged, and the integral current sensors must be replaced to reduce the risk of fire or electric shock.

TK.LB.W0080_E_

TK.LB.W0030.AFC

+MP

**WARNING**



Read and understand operator's manual before using this machine.

Failure to follow operating instructions could result in death or serious injury.

TK.LB.W0030_E_

TK.LB.W0080.AFC

+MP

**WARNING**

To maintain overcurrent, short-circuit, and ground-fault protection, the manufacturer's instructions for selection of overload and short circuit protection must be followed to reduce the risk of fire or electric shock.

If an overload or a fault current interruption occurs, circuits must be checked to determine the cause of the interruption.

If a fault condition exists, the current-carrying components should be examined and replaced if damaged, and the integral current sensors must be replaced to reduce the risk of fire or electric shock.

TK.LB.W0080_E_

TK.LB.W0120.AEC

+MP



**WARNING**

Potential Arc-Flash hazards exist while working on this energized equipment.

TK.LB.W0120_E_

TK.LB.W0120.AFC

+MP



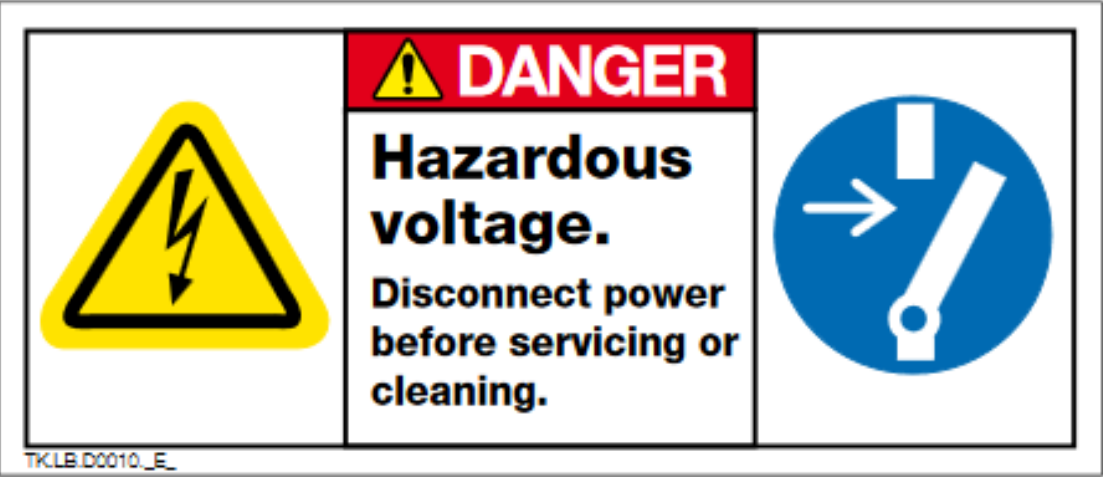
**WARNING**

Potential Arc-Flash hazards exist while working on this energized equipment.

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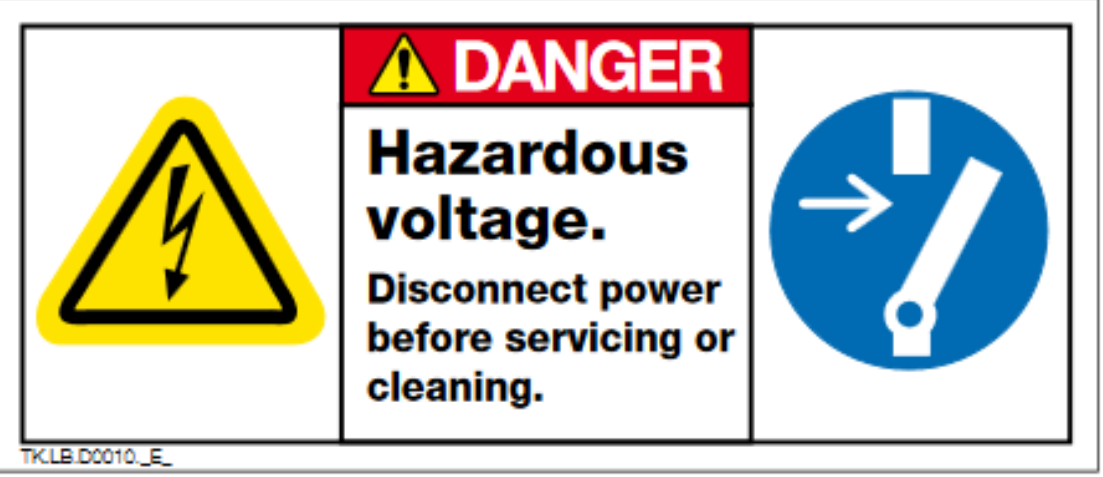
TK.LB.D0010.AEC

+MP



TK.LB.D0010.AFC

+MP



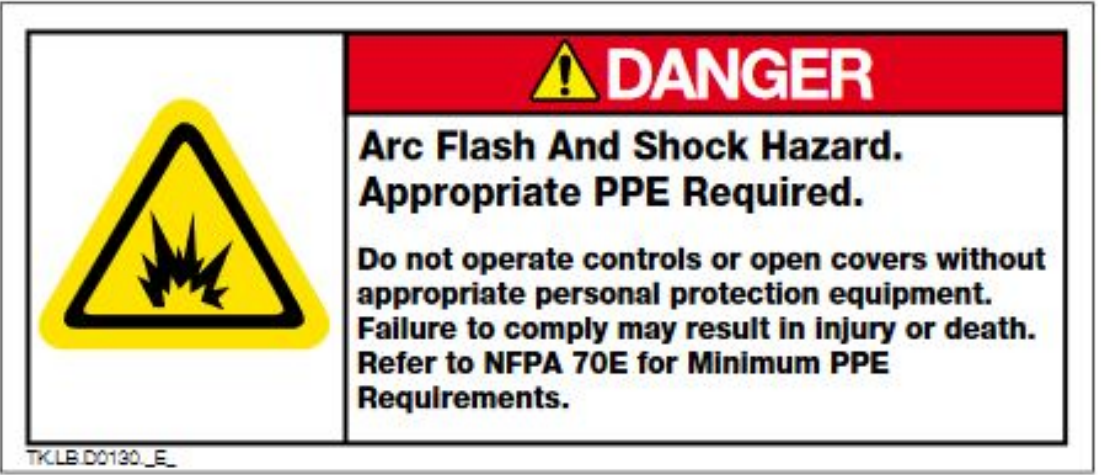
TK.LB.W0130.AEC

+MP



TK.LB.W0130.AFC

+MP



ANSI Symbol	ANSI Code	IEC 617 Symbol	IEC Code	Description
	CON		KM	Contactor contact open
	CON		KM	Contactor contact closed
	CR		KA	Relay contact open
	CR		KA	Relay contact closed
	TR		KT	Timed contact, N.O. – on delay (TDE)
	TR		KT	Timed contact, N.C. – on delay (TDE)
	TR		KT	Timed contact, N.C.– off delay (TDD)
	TR		KT	Timed contact, N.O. – off delay (TDD)
	SS		SA	Selector switch
	PB		SB	Pushbutton N.O.
	PB		SB	Pushbutton N.C.
	PB		SB	Pushbutton mushroom head
	FL		SL	Liquid level switch
	FLS		SF	Flow switch
	PS		SP	Pressure switch
	TS		ST	Temperature switch
	LS		SQ	Limit switch
	PRS		SQ	Proximity switch
	LT		HL	Indicating light
	PL		XS	Plug and socket
	CR		KA	Control relay coil
	CON		KM	Contactor coil
	M		KM	Motor starter coil
	TR		KA	Timer coil
	SOL		YV	Solenoid coil
	CTR		EC	Electromechanical counter
	CB		QF	Circuit breaker
	T1		X1	Terminals (reference)
			XT	Fused terminals (reference)
	FU		FU	Fuse, protective

Enclosure legend

F18_003

Item number	Device tag	Type number	Part number	Width	Height	Voltage	Current	Power
1	149U1	25B-D2P3N114	A-B.25B-D2P3N114	72,00 mm	152,00 mm		2.3A	
2	180U1	PF525	A-B.25B-D013N114	109,00 mm	220,00 mm		13A	
3	230U1	PF525	A-B.25B-D010N114	87,00 mm	180,00 mm		10.5	
4	149MOL1	140M-C2E-B40	A-B.140M-C2E-B40	45,00 mm	90,00 mm		2.5-4.0A	
5	180MOL1	140M-C2E-C20	A-B.140M-C2E-C20	45,00 mm	90,00 mm	AC	14.5 - 20 A	
8	230MOL1	140M-C2E-C16	A-B.140M-C2E-C16	45,00 mm	90,00 mm		10-16A	
10	108TB1	569020	ERI.569020	30,00 mm	77,00 mm			
11	108TB2	569020	ERI.569020	30,00 mm	77,00 mm			
12	108TB3	569020	ERI.569020	30,00 mm	77,00 mm			
14	102TB1	569030	ERI.569030	30,00 mm	77,00 mm			
15	102TB2	569030	ERI.569030	30,00 mm	77,00 mm			
16	102TB3	569030	ERI.569030	30,00 mm	77,00 mm			
17	102TB11	569030	ERI.569030	30,00 mm	77,00 mm			
18	102TB12	569030	ERI.569030	30,00 mm	77,00 mm			
19	102TB13	569030	ERI.569030	30,00 mm	77,00 mm			
20	108CB1	1489	A-B.1489-AMRA3	8,80 mm	99,00 mm			
22	118CB1	1489	A-B.1489-M1C060	17,60 mm	111,00 mm	AC	6A	
23	311CB1	1489	A-B.1489-M1C020	17,60 mm	111,00 mm	AC	2A	
25	186CB1	1489	A-B.1489-M1D010	17,60 mm	111,00 mm	AC	1A	
26	186CB1	1489	A-B.1489-AMRA3	8,80 mm	99,00 mm			
27	280CON1	100S-C30EJ32C	A-B.100S-C30EJ32C	44,70 mm	80,77 mm	DC		30A
28	280CON2	100S-C30EJ32C	A-B.100S-C30EJ32C	44,70 mm	80,77 mm	DC		30A
29	108CB1	1489	A-B.1489-M3D100	52,40 mm	111,00 mm	AC	10A	
30	112CB1	1489	A-B.1489-M1C010	17,60 mm	111,00 mm	AC	1A	
31	105CB1	1489	A-B.1489-M2D040	35,00 mm	111,00 mm	AC	4A	
32	105CB2	1489	A-B.1489-AMRA3	8,80 mm	99,00 mm			
33	105CB2	1489	A-B.1489-M1C130	17,60 mm	111,00 mm	AC	13A	
35	288CON3	100-C09EJ10	A-B.100-C09EJ10	44,70 mm	80,77 mm	DC		9A
38	105TL1	MST 1000-208...550/2x115	MURR.86151	174,00 mm	128,10 mm			

Enclosure legend

F18_003

Item number	Device tag	Type number	Part number	Width	Height	Voltage	Current	Power
39	100DSC1	140G	A-B.140G-H2C3-C32	90,00 mm	130,00 mm	AC	32A	
40	303U1	1783	A-B.1783-US8T	53,65 mm	135,13 mm			
41	309U1	1783	A-B.1783-NATR	35,02 mm	131,57 mm			
43	300PLC1	5069-L320ERS2	A-B.5069-L320ERS2	101,64 mm	146,75 mm			
44	103CB1	1489	A-B.1489-M3D030	52,40 mm	111,00 mm	AC	3A	
45	103CB2	1489	A-B.1489-M1C200	17,60 mm	111,00 mm	AC	20A	
46	180RES1	AK-R2-120P1K2	A-B.AK-R2120P1K2	61,00 mm	405,00 mm			
47	281CR1	PSR-PC40-2NO-1DO-24DC-SC	PXC.2700588	12,50 mm	112,20 mm			
48	284CR1	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
49	414CR1	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
50	414CR2	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
51	414CR4	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
52	415CR1	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
53	415CR4	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
54	416CR1	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
55	416CR2	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
56	416CR3	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
57	416CR4	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
58	417CR1	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
59	417CR2	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
60	417CR3	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
61	417CR4	PLC-RPT- 24DC/21	PXC.2900299	6,20 mm	80,00 mm			
62	460T1	MAZ DC/DC select	WEI.8594840000	6,10 mm	92,00 mm			
63	462T1	MAZ DC/DC select	WEI.8594840000	6,10 mm	92,00 mm			
65	350ARM1	1734-TOPS	A-B.1734-TOPS	12,00 mm	134,00 mm			
66	351ARM1	1734-TOPS	A-B.1734-TOPS	12,00 mm	134,00 mm			
67	351ARM2	1734-TOPS	A-B.1734-TOPS	12,00 mm	134,00 mm			
68	350PLC1	1734	A-B.1734-AENTR	74,00 mm	132,99 mm			
69	355PLC1	1734	A-B.1734-IB8S	25,74 mm	135,37 mm			

Enclosure legend

F18_003

Item number	Device tag	Type number	Part number	Width	Height	Voltage	Current	Power
70	356PLC1	1734	A-B.1734-IB8S	25,74 mm	135,37 mm			
71	357PLC1	1734	A-B.1734-IB8S	25,74 mm	135,37 mm			
72	358PLC1	1734	A-B.1734-IB8S	25,74 mm	135,37 mm			
73	350PWS1	1734-FPD	A-B.1734-FPD	25,40 mm	133,40 mm			
74	350PWS2	1734-EP24DC	A-B.1734-EP24DC	25,40 mm	133,40 mm			
75	397PLC1	1734	A-B.1734-OB8S	25,74 mm	135,37 mm			
76	359PLC1	1734	A-B.1734-IB8S	25,74 mm	135,37 mm			
77	367PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
78	370PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
79	371PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
80	375PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
81	383PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
82	384PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
83	385PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
84	386PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
85	388PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
86	390PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
87	392PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
88	414PLC1	1734-OB8E	A-B.1734-OB8E	12,00 mm	133,40 mm			
89	416PLC1	1734-OB8E	A-B.1734-OB8E	12,00 mm	133,40 mm			
90	430PLC1	1734-OB8E	A-B.1734-OB8E	12,00 mm	133,40 mm			
91	434PLC1	1734-OB8E	A-B.1734-OB8E	12,00 mm	133,40 mm			
92	445PLC1	1734	A-B.1734-OE4C	12,08 mm	133,00 mm			
93	250PLC1	1734	A-B.1734-AENTR	74,00 mm	132,99 mm			
94	260PLC1	1734	A-B.1734-IB8S	25,74 mm	135,37 mm			
95	280PLC1	1734	A-B.1734-OB8S	25,74 mm	135,37 mm			
96	250PWS1	1734-FPD	A-B.1734-FPD	25,40 mm	133,40 mm			
97	270PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			
98	272PLC1	1734-IB8	A-B.1734-IB8	12,00 mm	133,40 mm			

Enclosure legend

F18_003

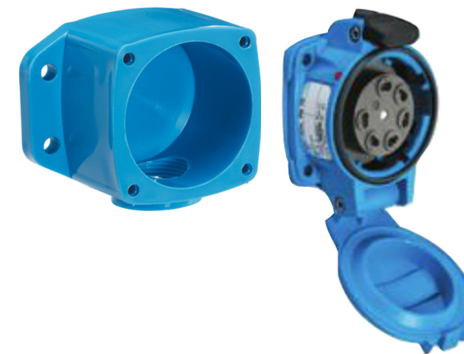
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PREVIOUS: 58

NEXT: 80

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			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	59

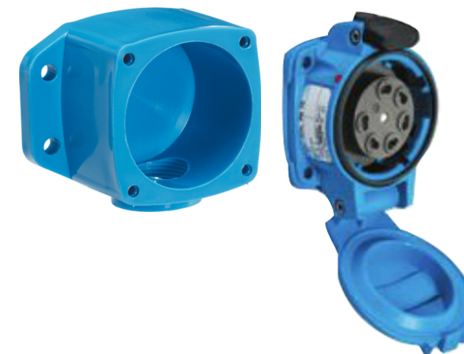
+JOG-2000S1
+JOG/2000.8



BLUE ZONE

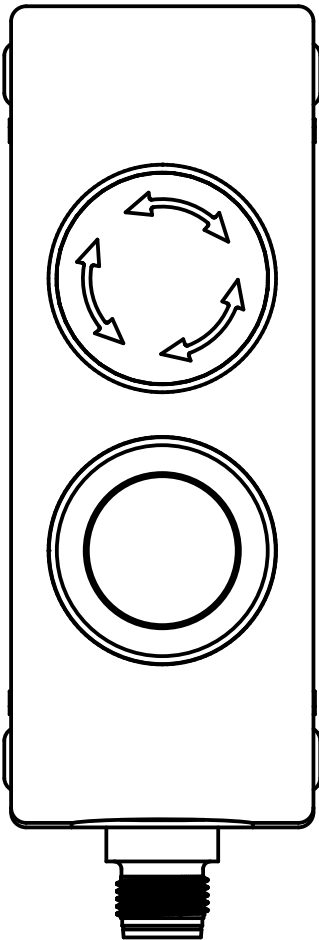
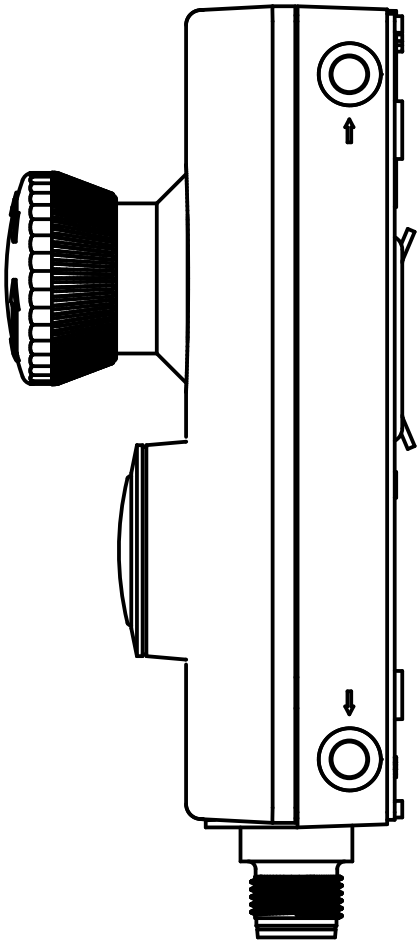


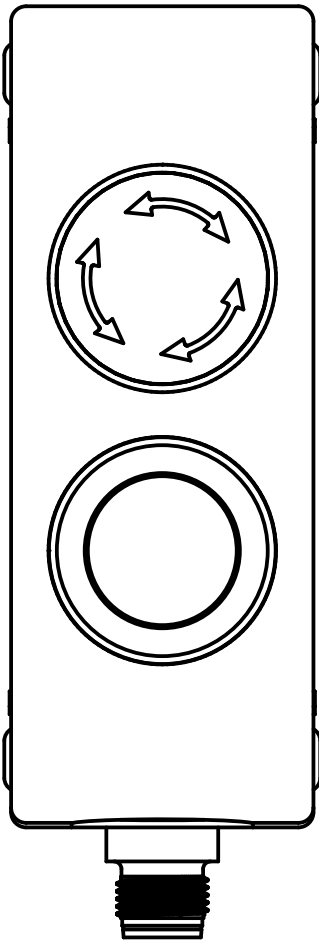
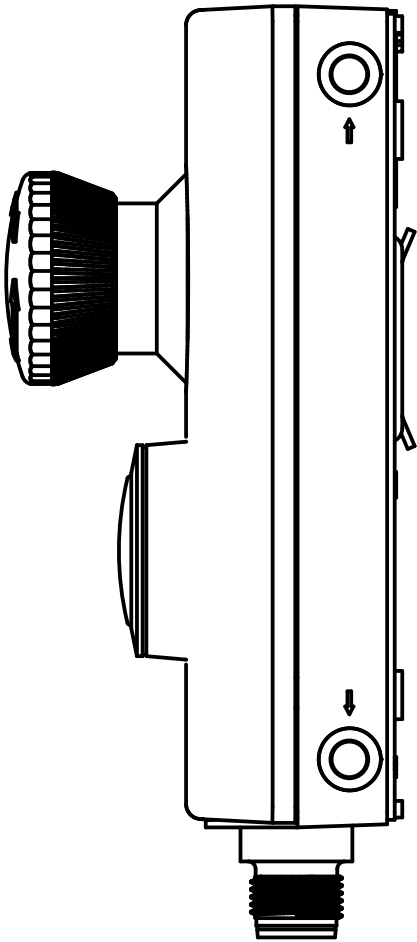
GREEN ZONE

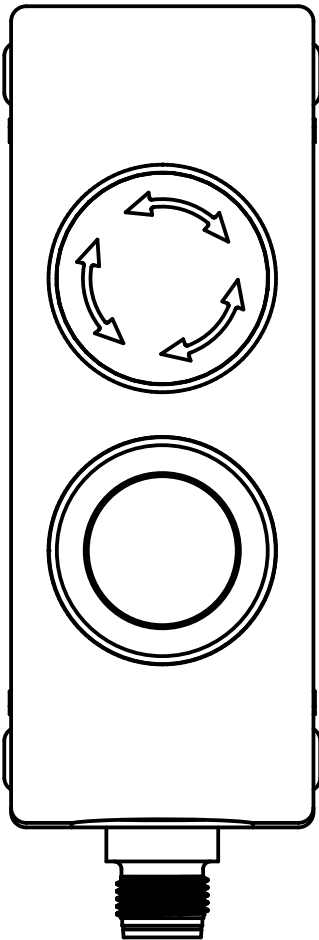
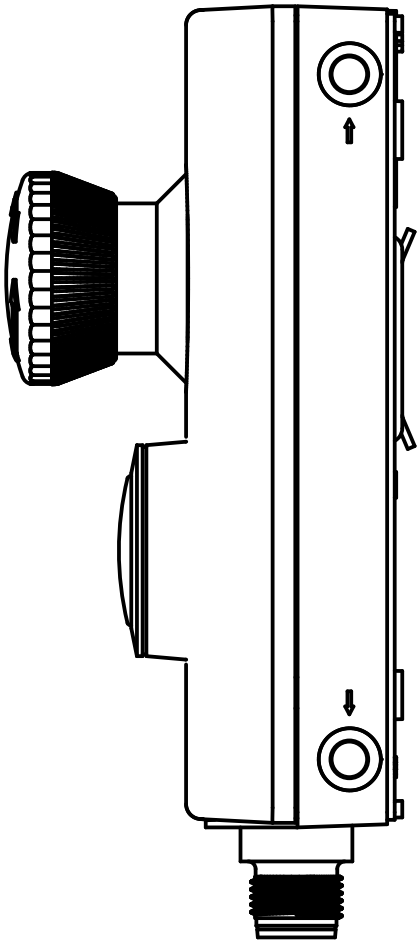
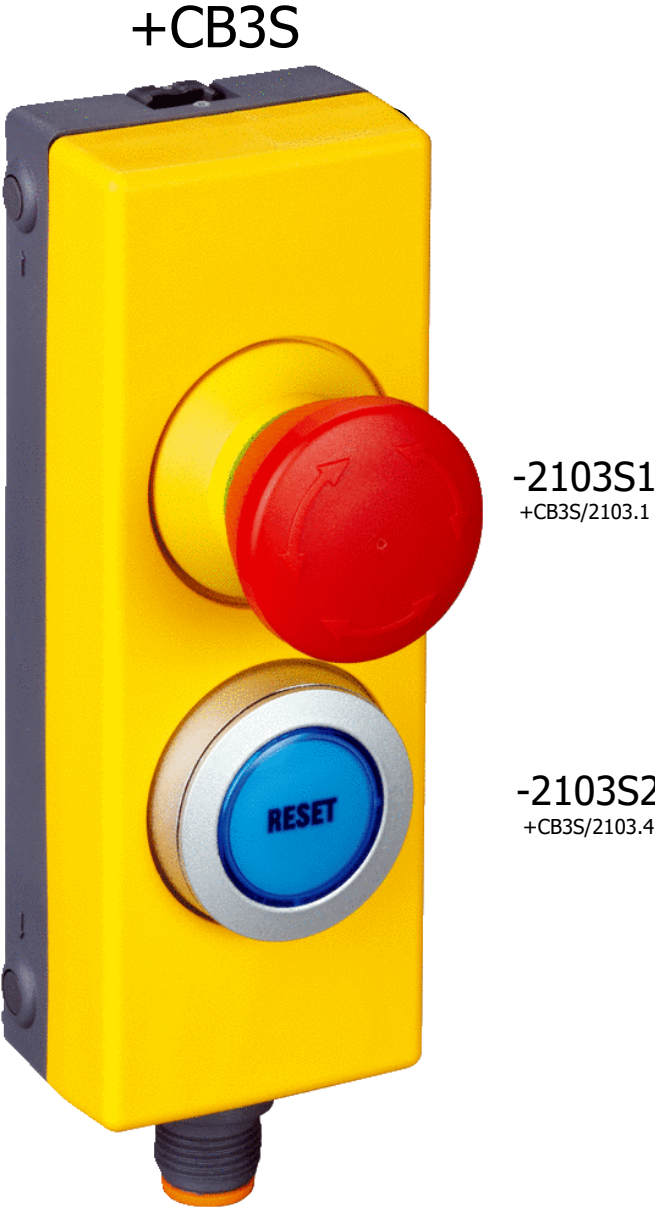


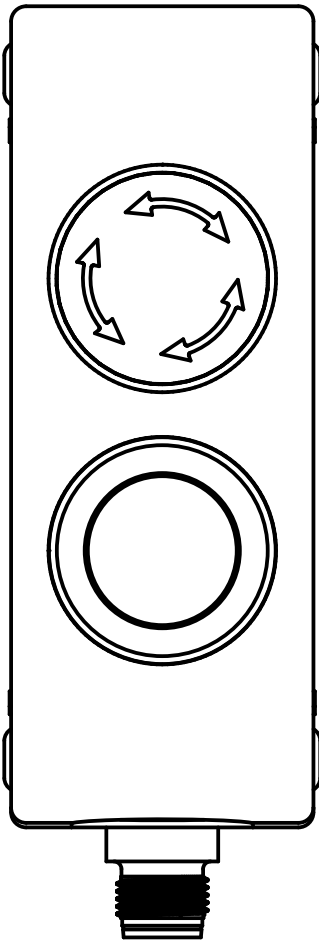
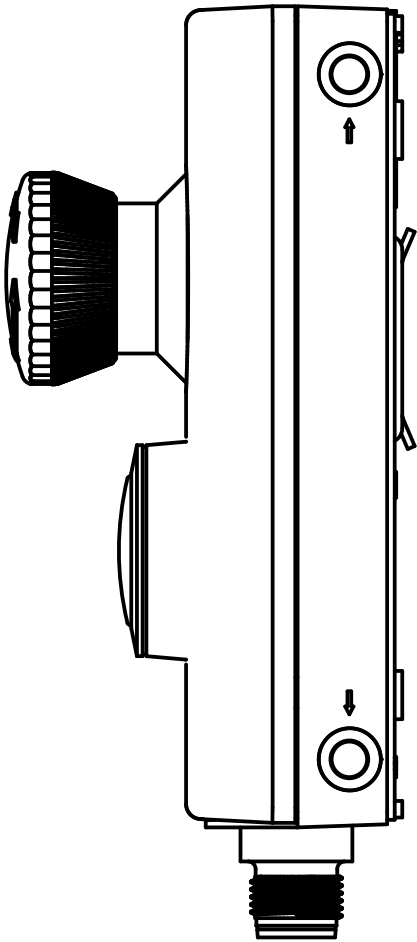
YELLOW ZONE

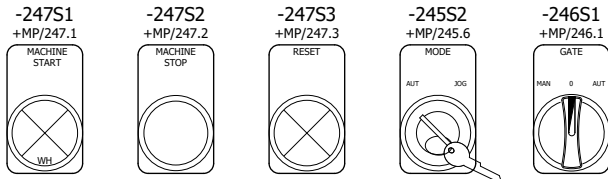
			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	+ JOG PUSHBUTTON	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ ETM
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	80



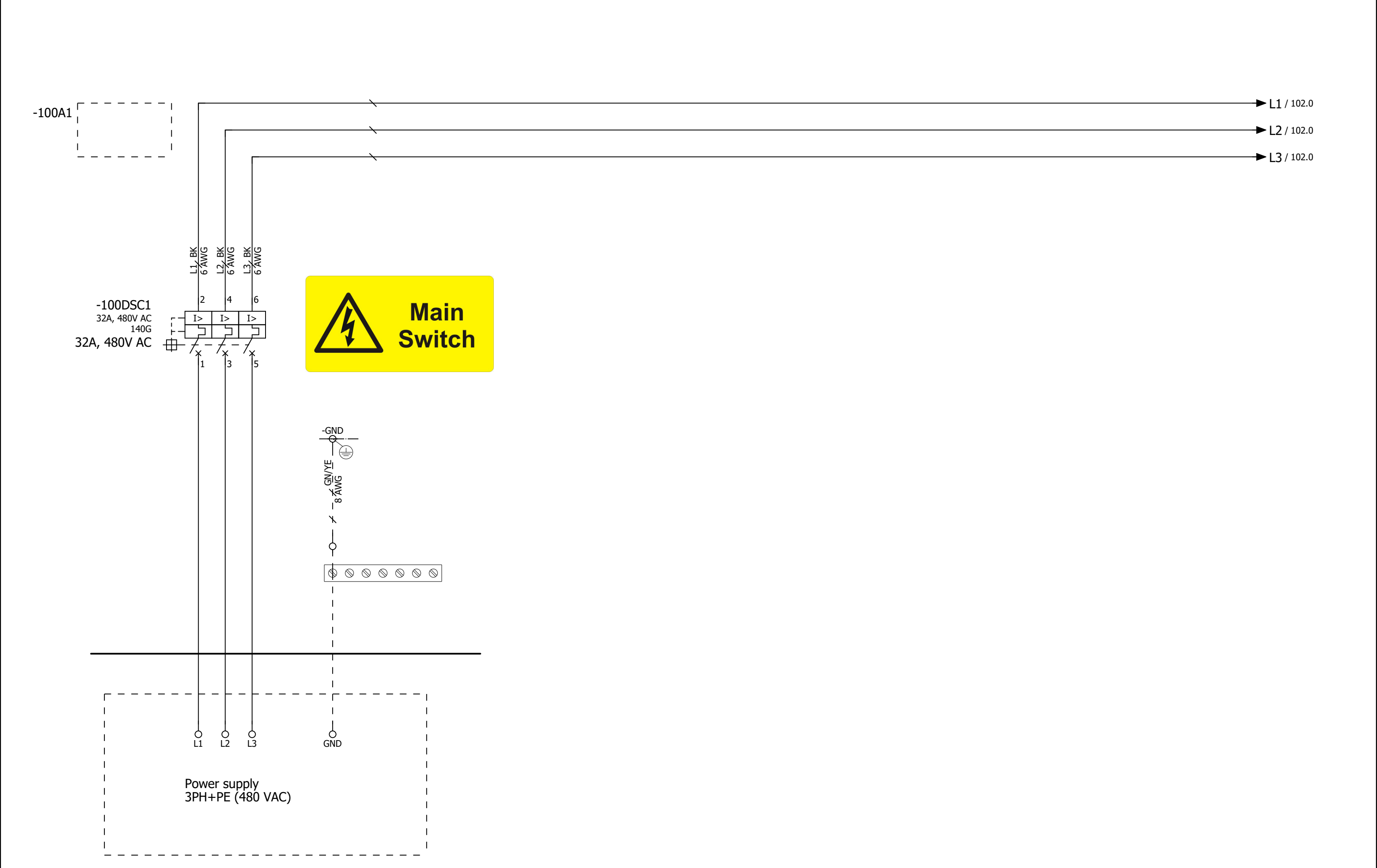


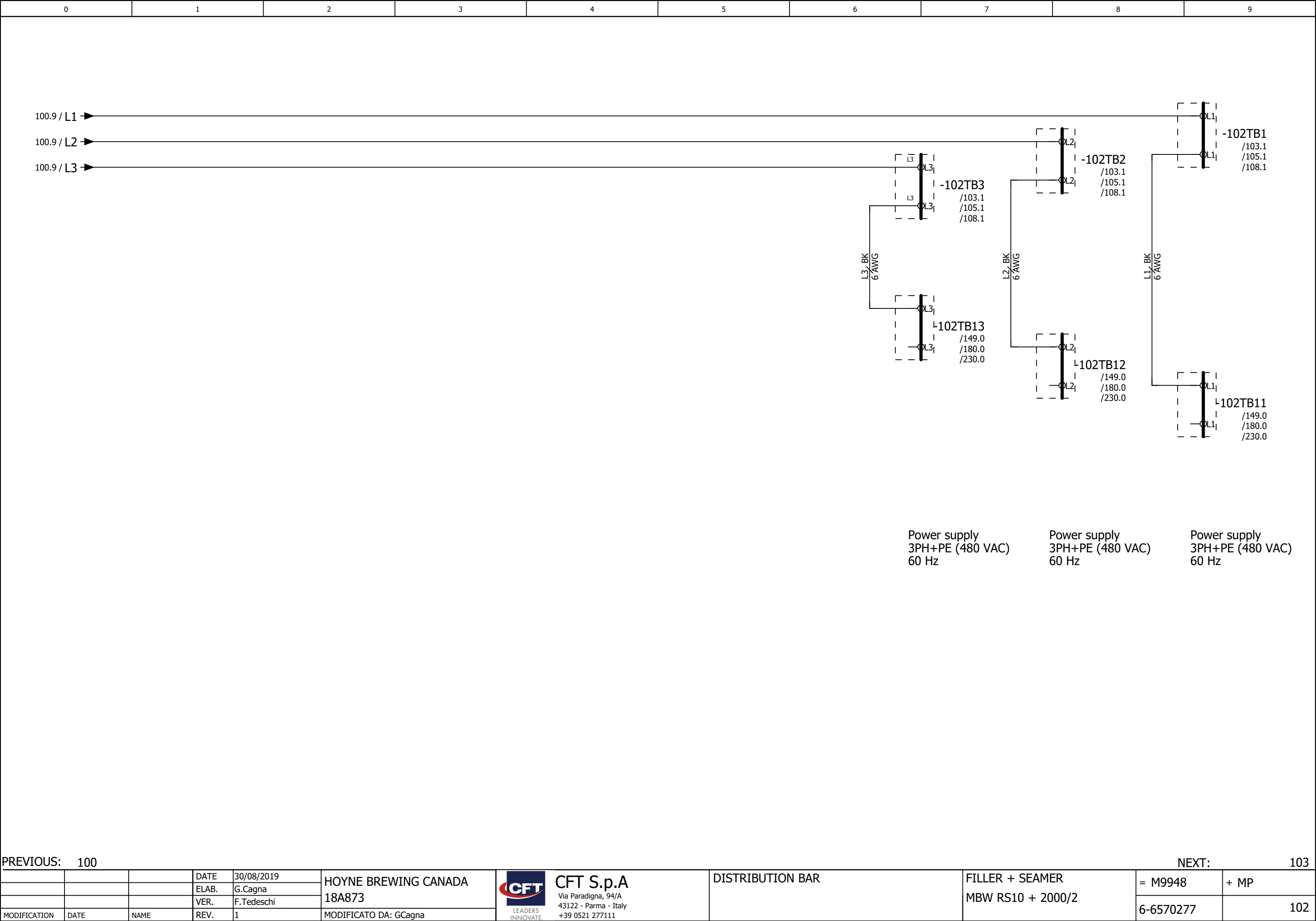


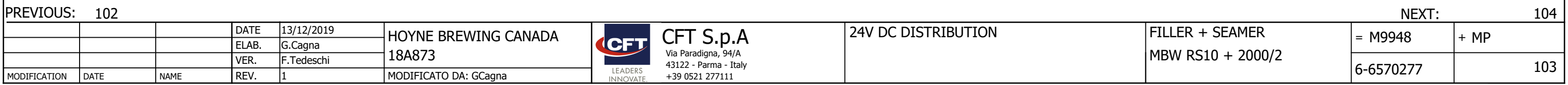


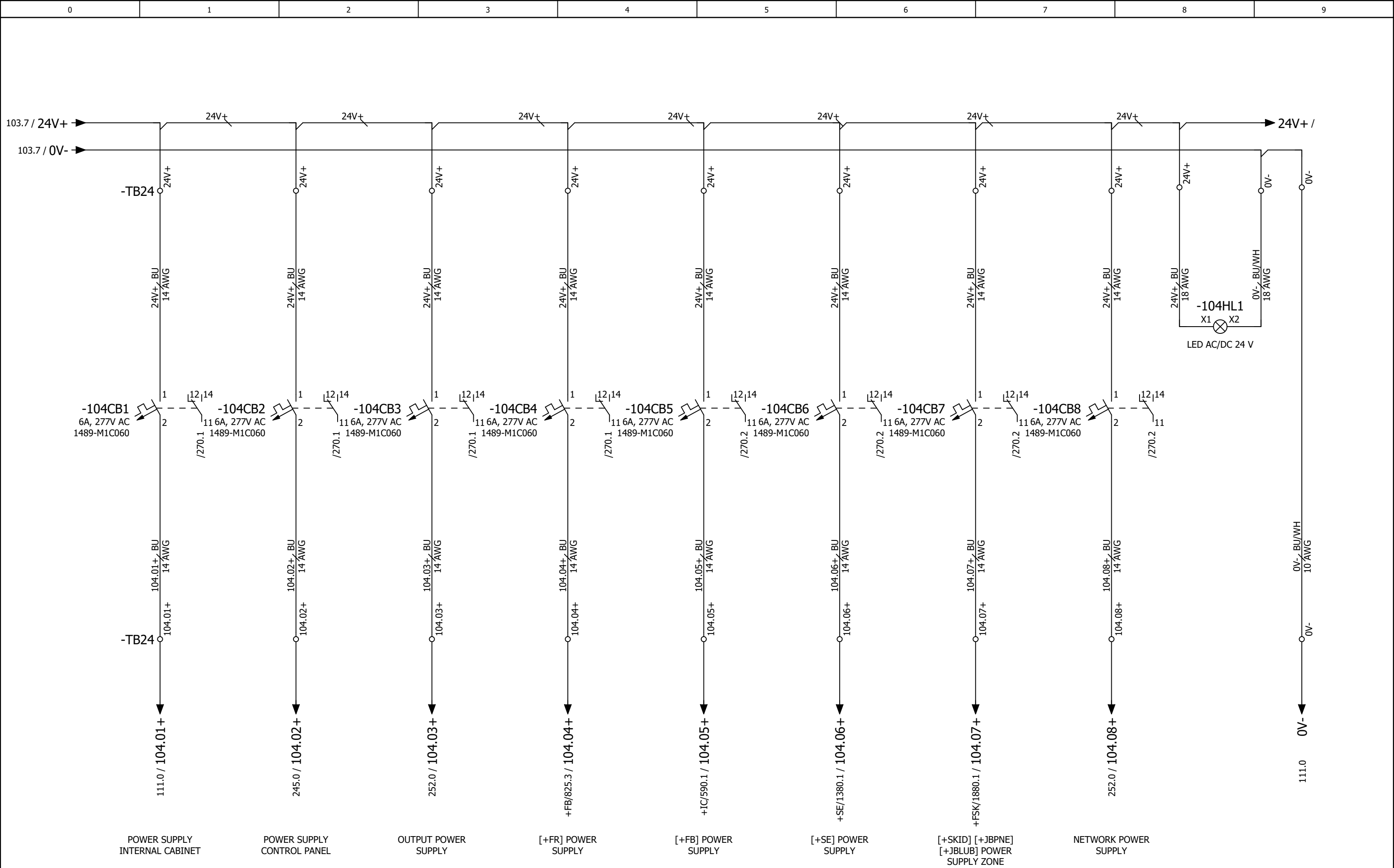


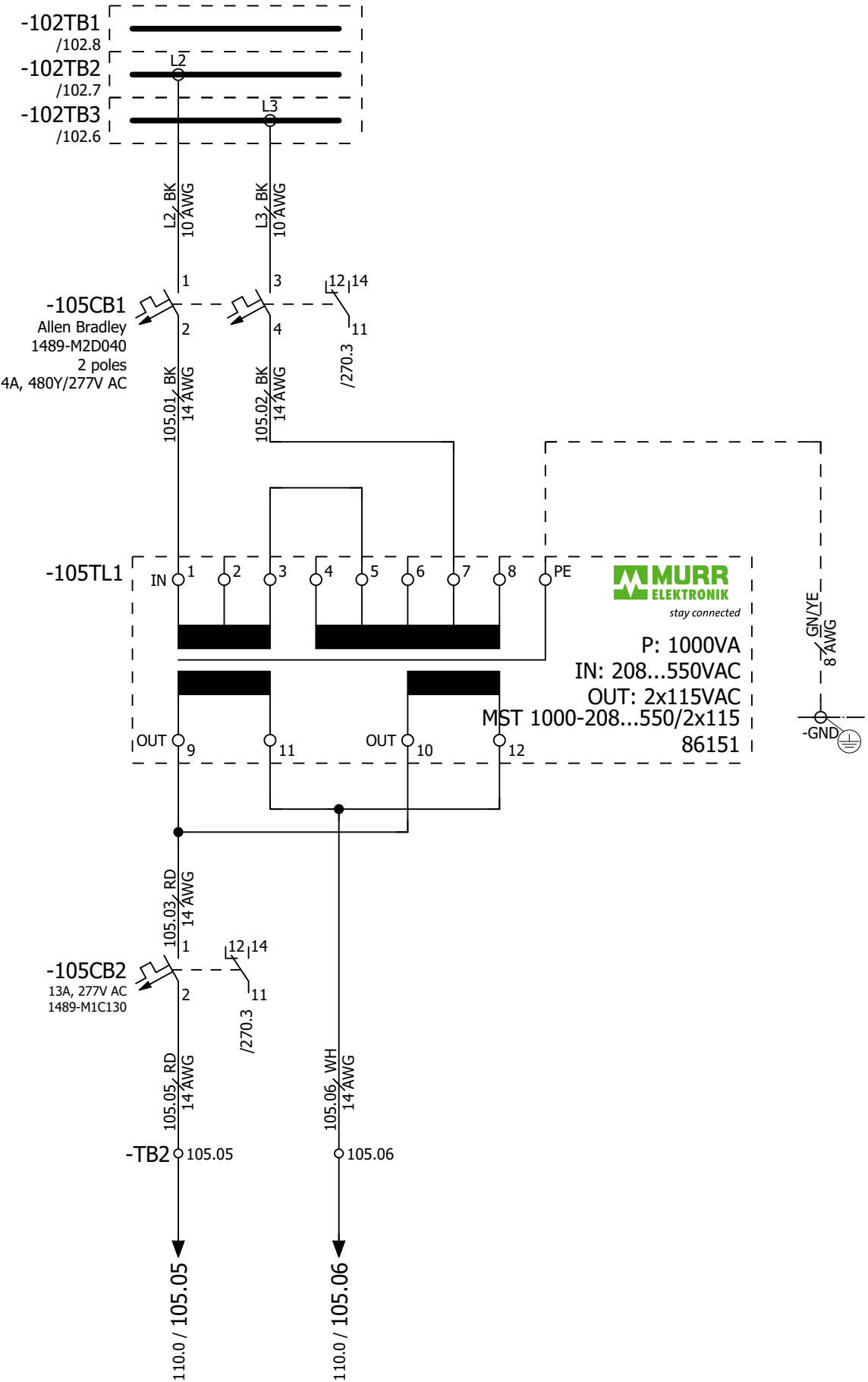
0		1		2		3		4		5		6		7		8		9							
LIGHT TOWER +HSD-2091HL1 +HSD/2091.1 -2091HL2 +HSD/2091.2 RD -2091HL3 +HSD/2091.3 OR -2091HL4 +HSD/2091.4 GN -2091HL5 +HSD/2091.5 BU -2091HS6 +HSD/2091.6 LIGHT TOWER +HSD-2092HL1 +HSD/2092.1 -2092HL2 +HSD/2092.2 RD -2092HL3 +HSD/2092.3 OR -2092HL4 +HSD/2092.4 GN -2092HL5 +HSD/2092.5 BU -2092HS6 +HSD/2092.6																									
PREVIOUS: 98																									
NEXT: +MP/100																									
				DATE		30/08/2019		HOYNE BREWING CANADA 18A873				CFT CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111				TOWER LIGHT				FILLER + SEAMER MBW RS10 + 2000/2		= M9948		+ ETM	
				ELAB.		G.Cagna																6-6570277		99	
				VER.		F.Tedeschi																			
MODIFICATION		DATE		NAME		REV.		MODIFICATO DA: GCagna																	



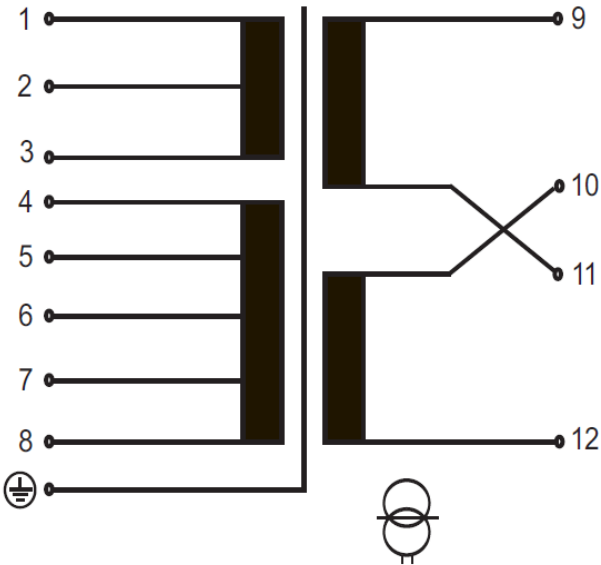








Schaltbild / Circuit Diagram:



Pri. und Sec. Anschluß:

Eingang [V]	Klemme:	Brücke:
208	1-2	1+4 / 3+7
230*	5-7	1+4 / 3+7
380	1-6	2+5
400	1-6	2+4
420	1-6	3+5
440	1-6	3+4
460	1-7	2+4
480	1-7	3+5
500	1-7	3+4
525	1-8	3+5
550	1-8	3+4
2x 115	9-11 u. 10-12	-
115	9-12	9+10/11+12
230*	9-12	10+11

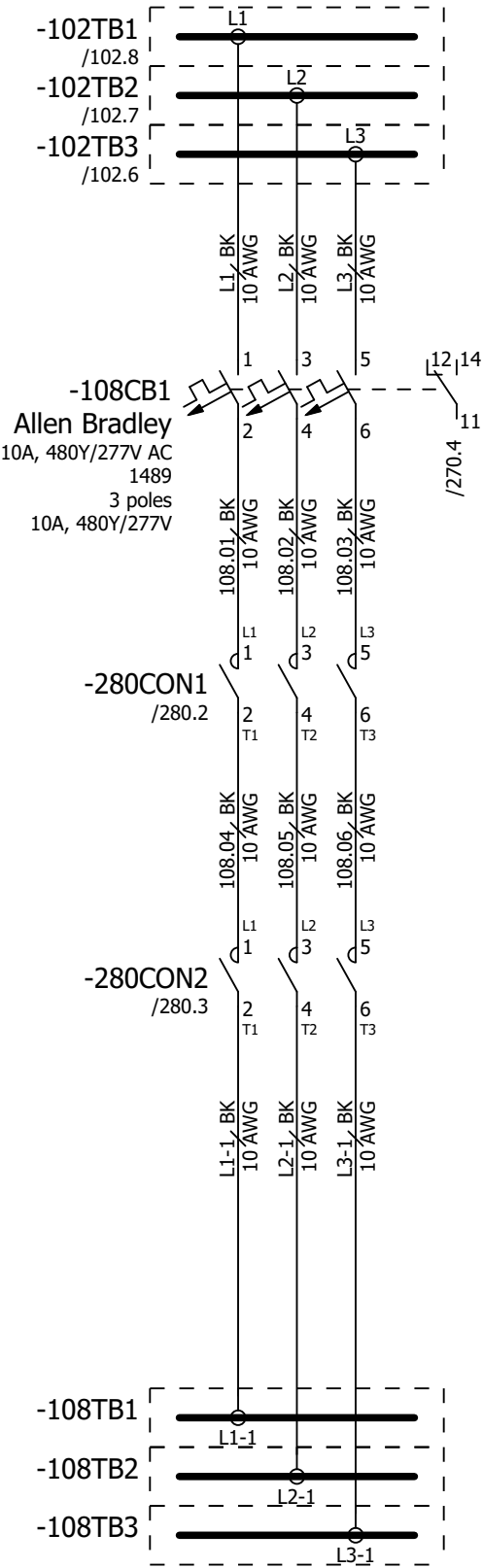
*Auslieferungszustand

!WARNING

WARNING THE SECONDARY SYSTEM(S) MUST BE CONNECTED TO A GROUND ELECTRODE IN COMPLIANCE WITH THE CE CODE PART !

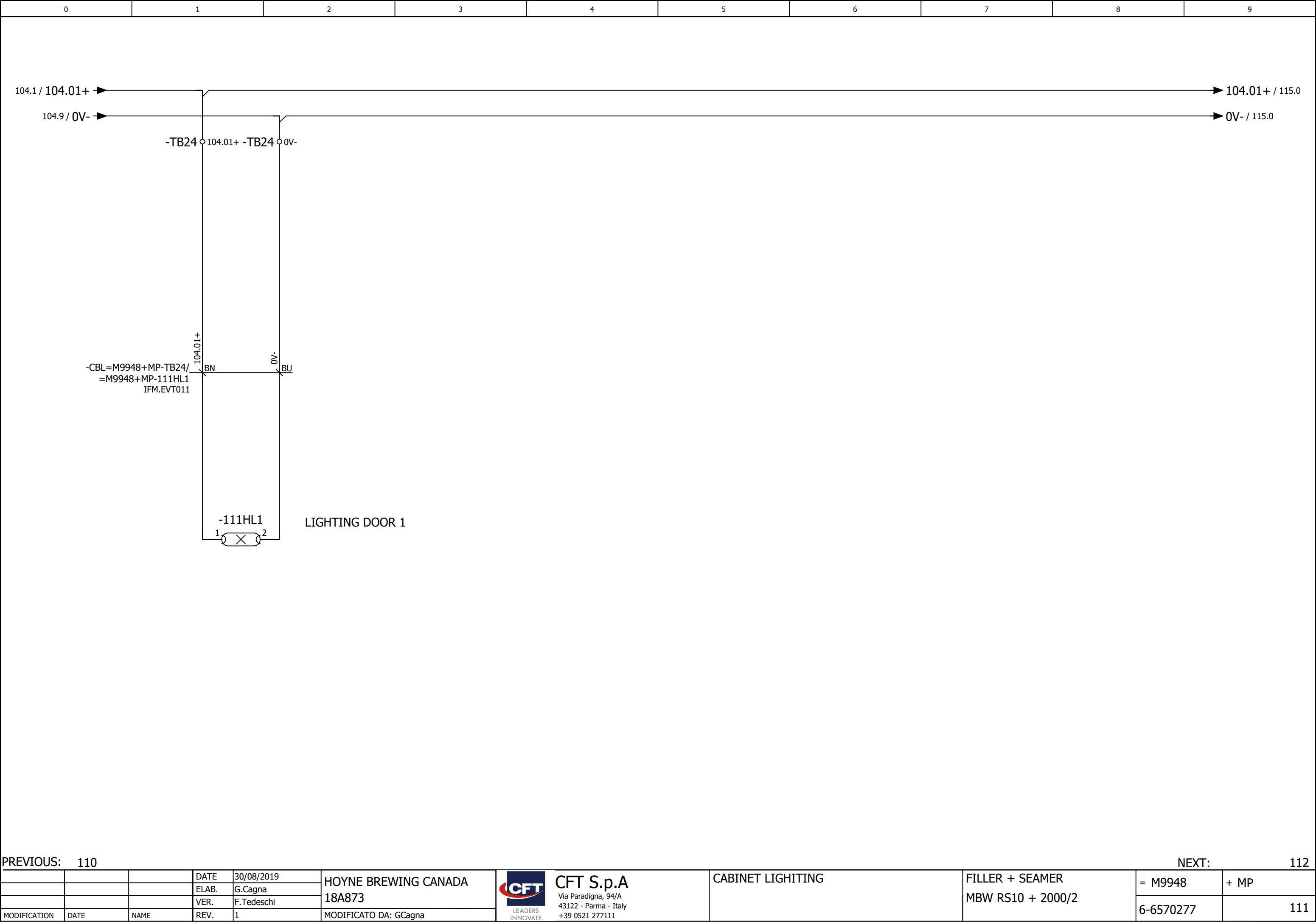
AVERTISSEMENT LE SYSTÈME SECONDAIRE DOIT ÊTRE RELIÉ À UNE PRISE DE TERRE CONFORMÉMENT AU CCÉ, PREMIÈRE PARTIE

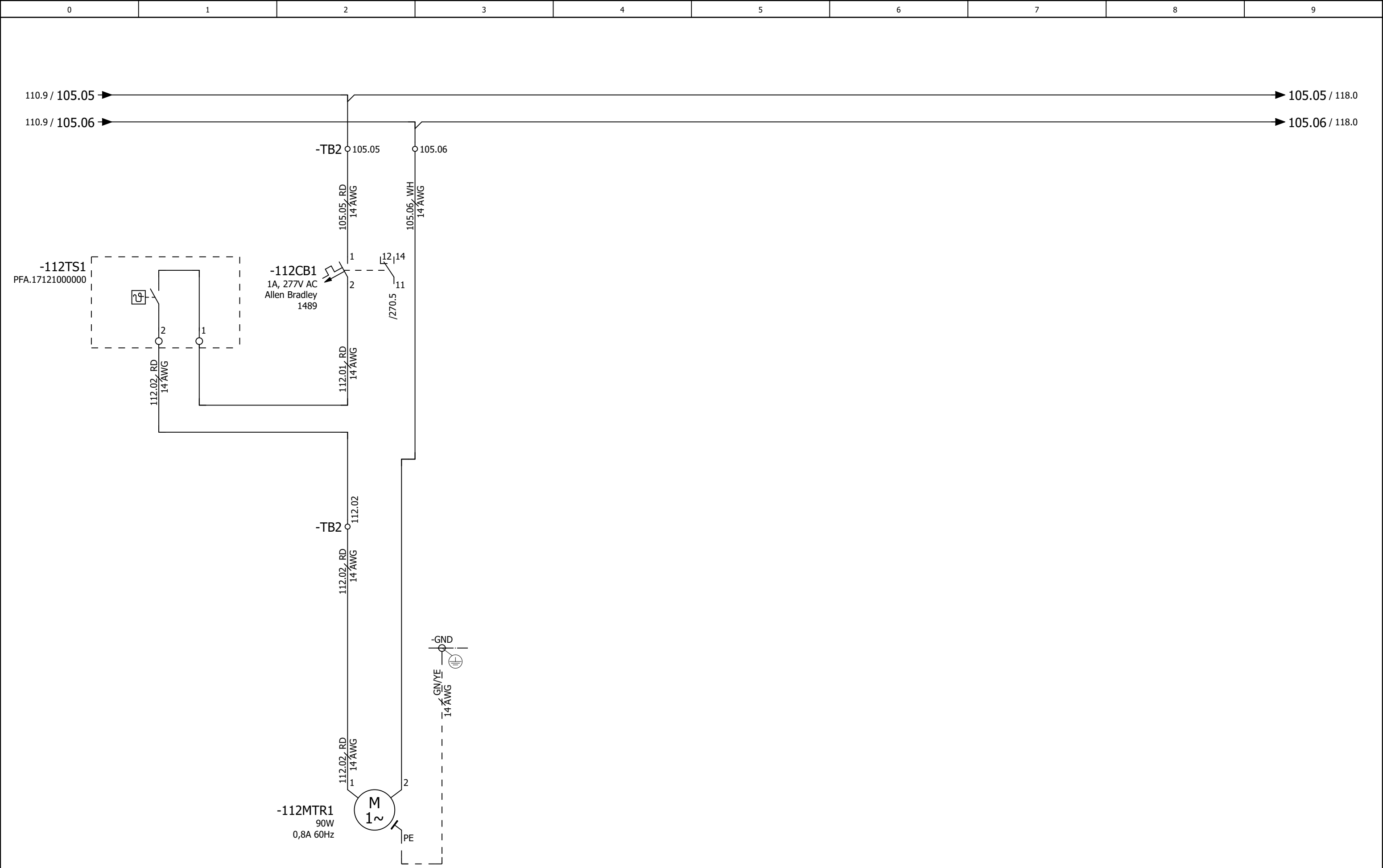
VISIBLE NEAR THE COPPER BAR, WHERE THE 0 V GROUND CONNECTION IS WIRED FOR TRANSFORMERS OF SIZE> 1000 VA



PREVIOUS: 105

NEXT: 110





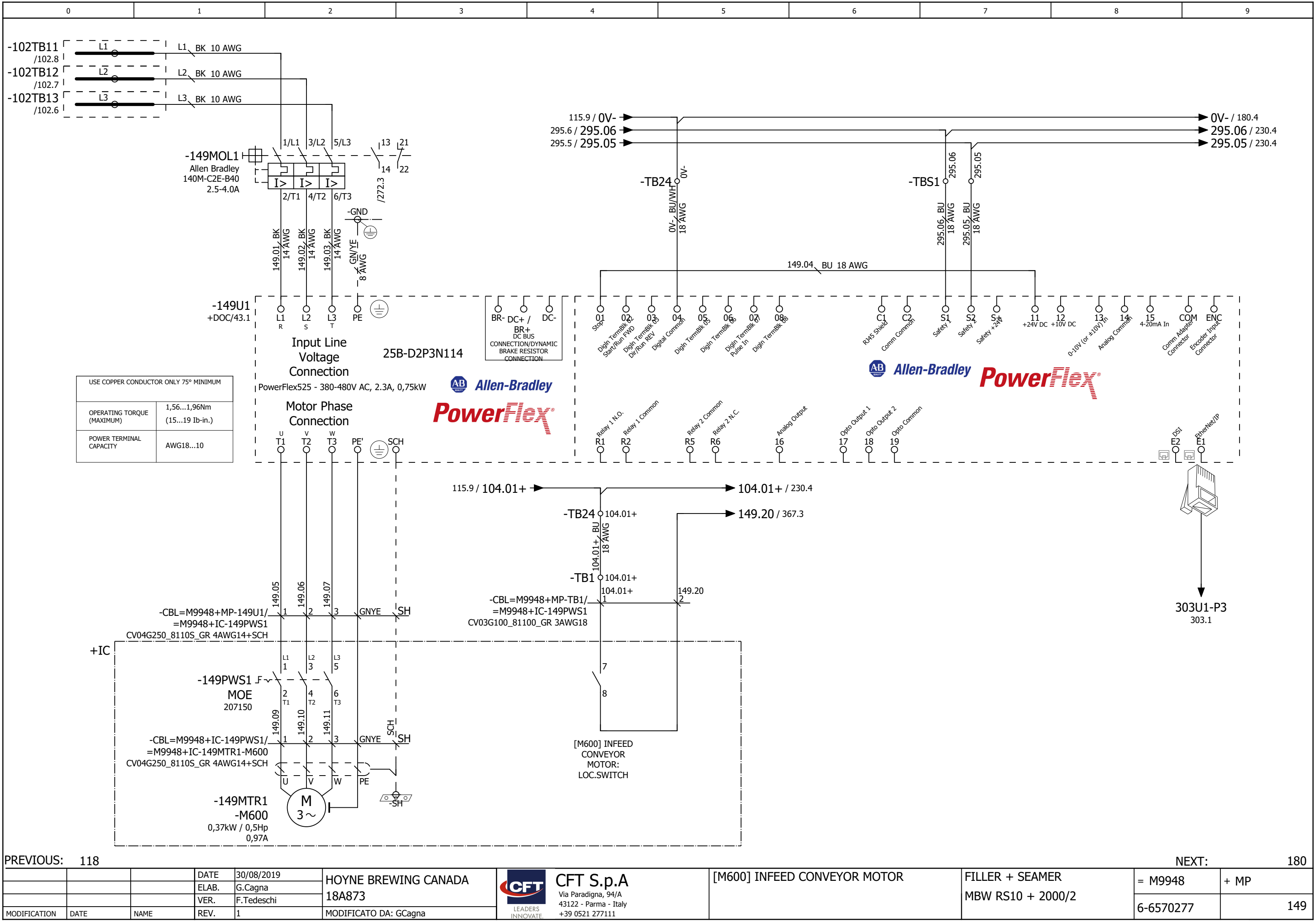
PREVIOUS: 111					NEXT: 115						
			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 LEADERS INNOVATE	CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	CABINET COOLING SYSTEM	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna							
			VER.	F.Tedeschi							
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna					6-6570277	112



0	1	2	3	4	5	6	7	8	9
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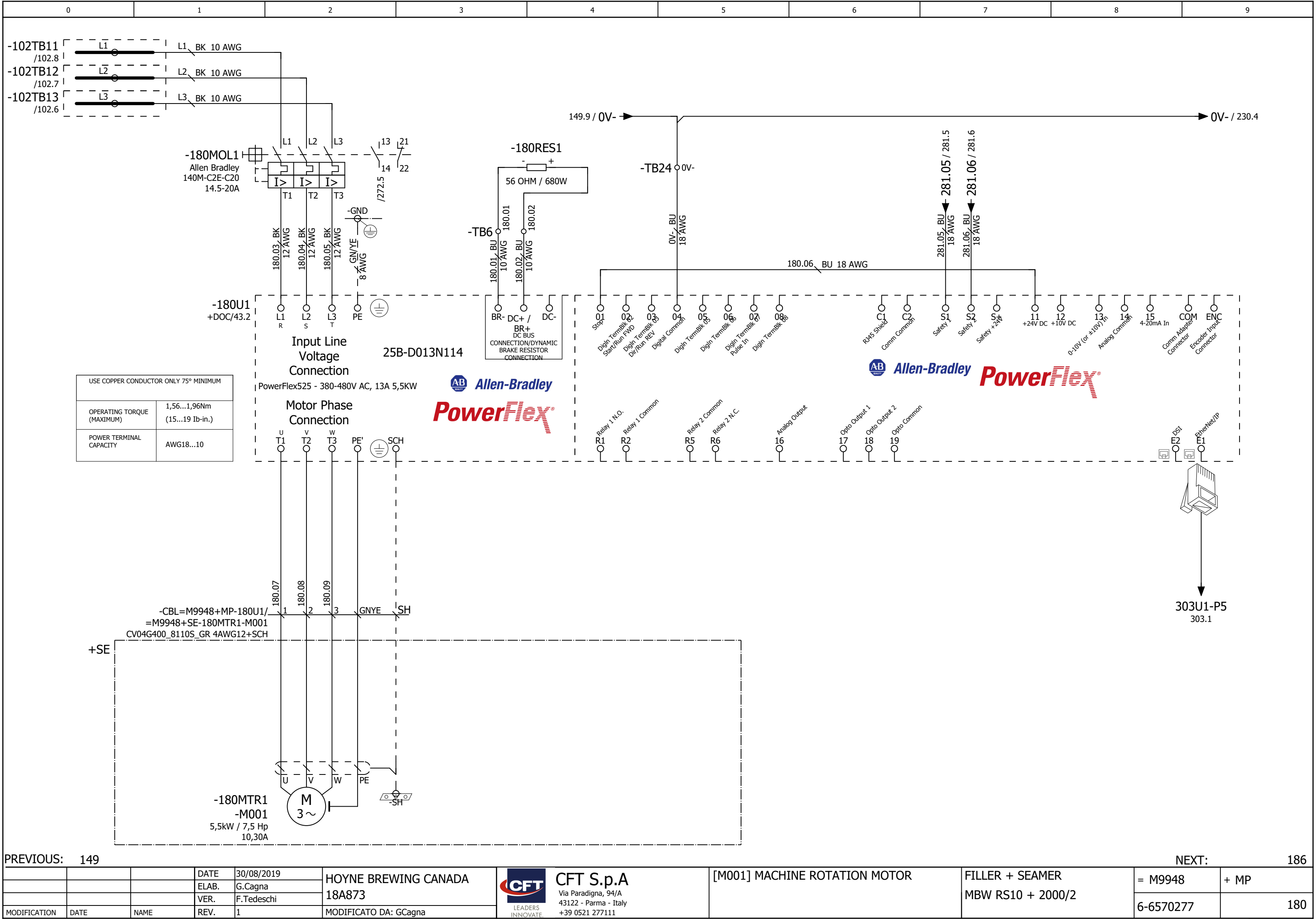
PREVIOUS: 115										NEXT: 149	
			DATE	30/08/2019	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	AUXILIARY AC VOLTAGE SUPPLY	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP		
			ELAB.	G.Cagna				6-6570277	118		
			VER.	F.Tedeschi							
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna						

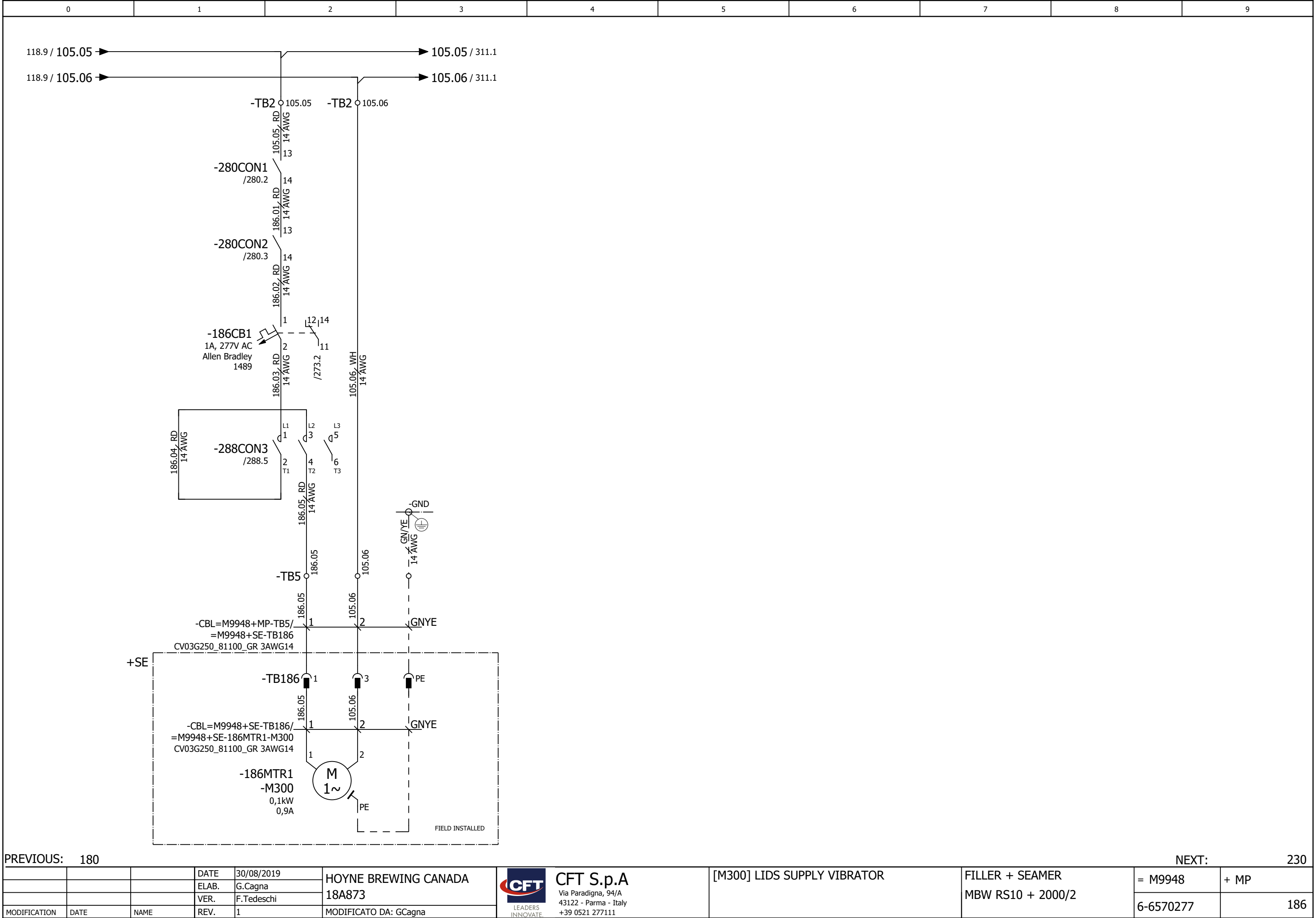


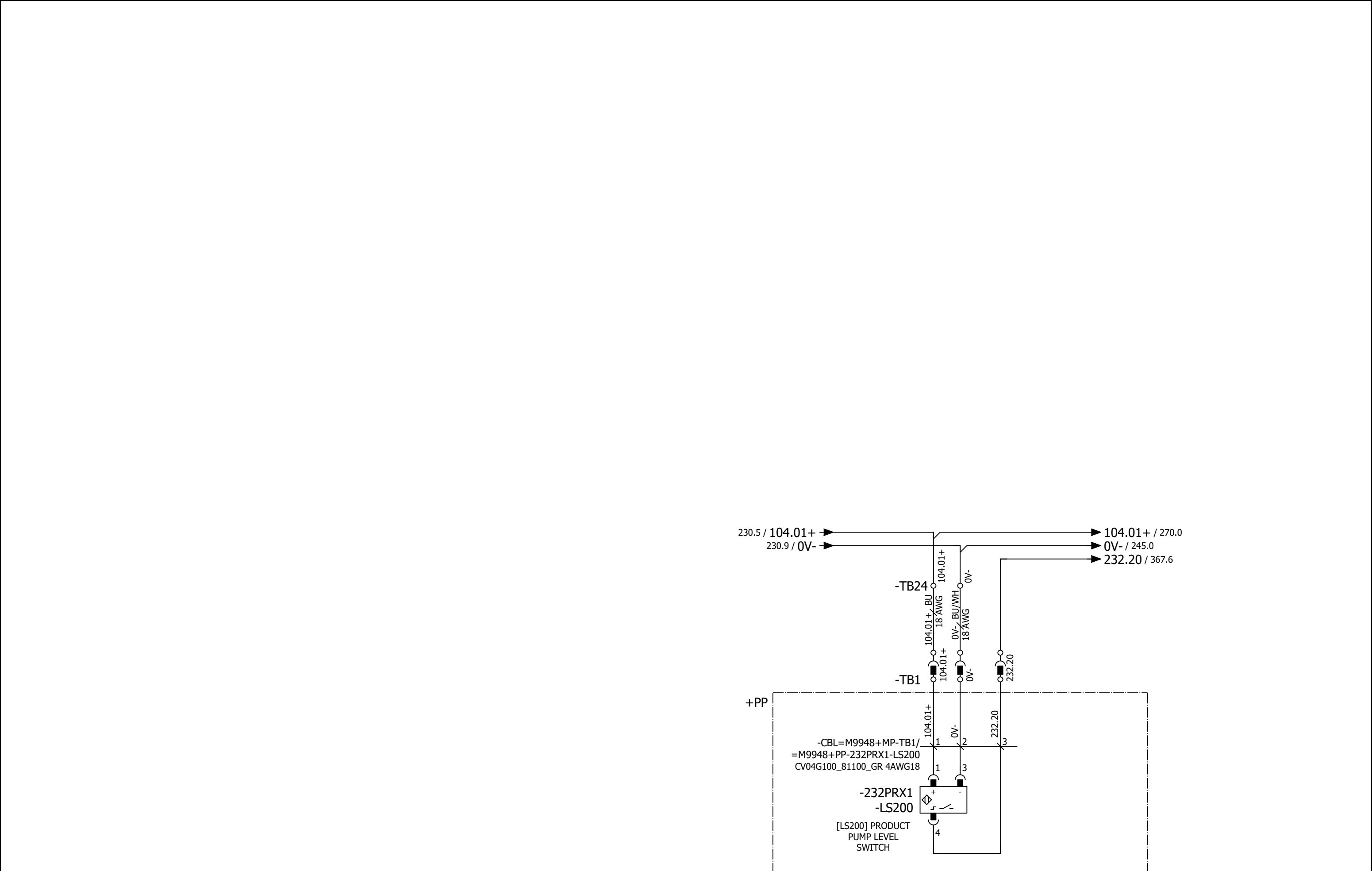
PREVIOUS: 118

NEXT: 180

DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[M600] INFEEED CONVEYOR MOTOR	FILLER + SEAMER MBW RS10 + 2000/2	= M9948 6-6570277	+ MP 149
ELAB.	G.Cagna						
VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna		



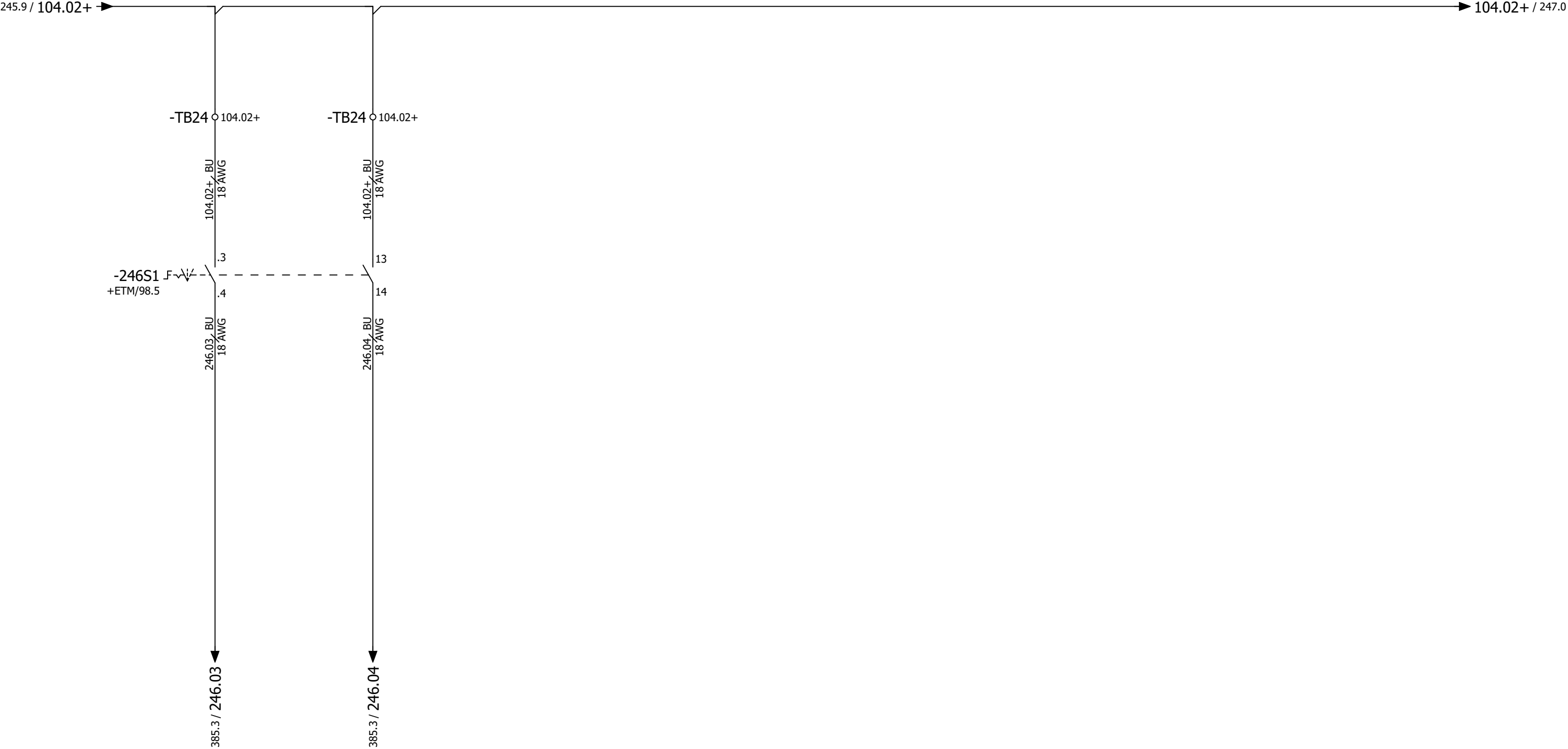






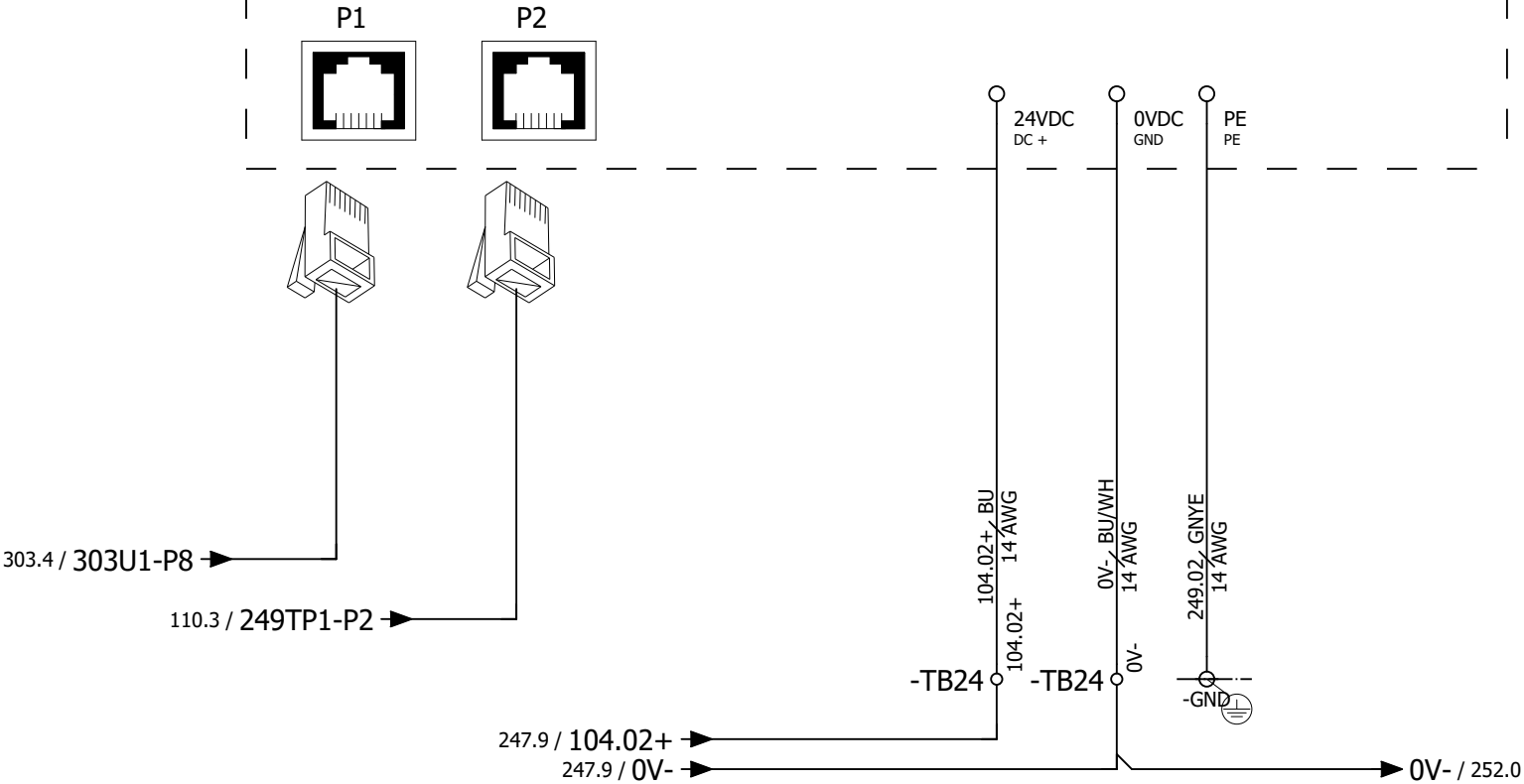
CONTAINER GATE SEL. CONTAINER GATE SEL.

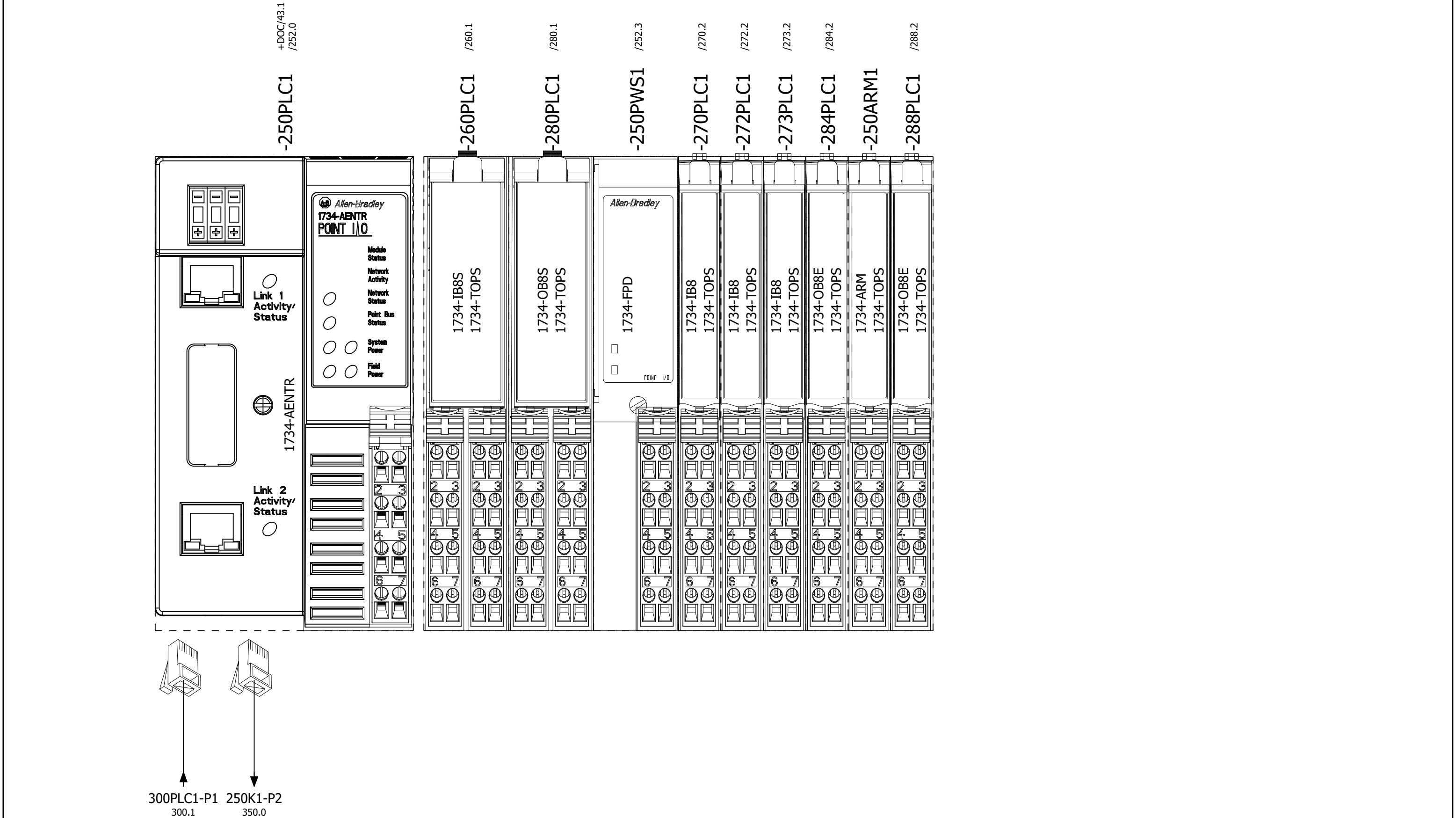
MODE: MANUAL MODE: AUTO

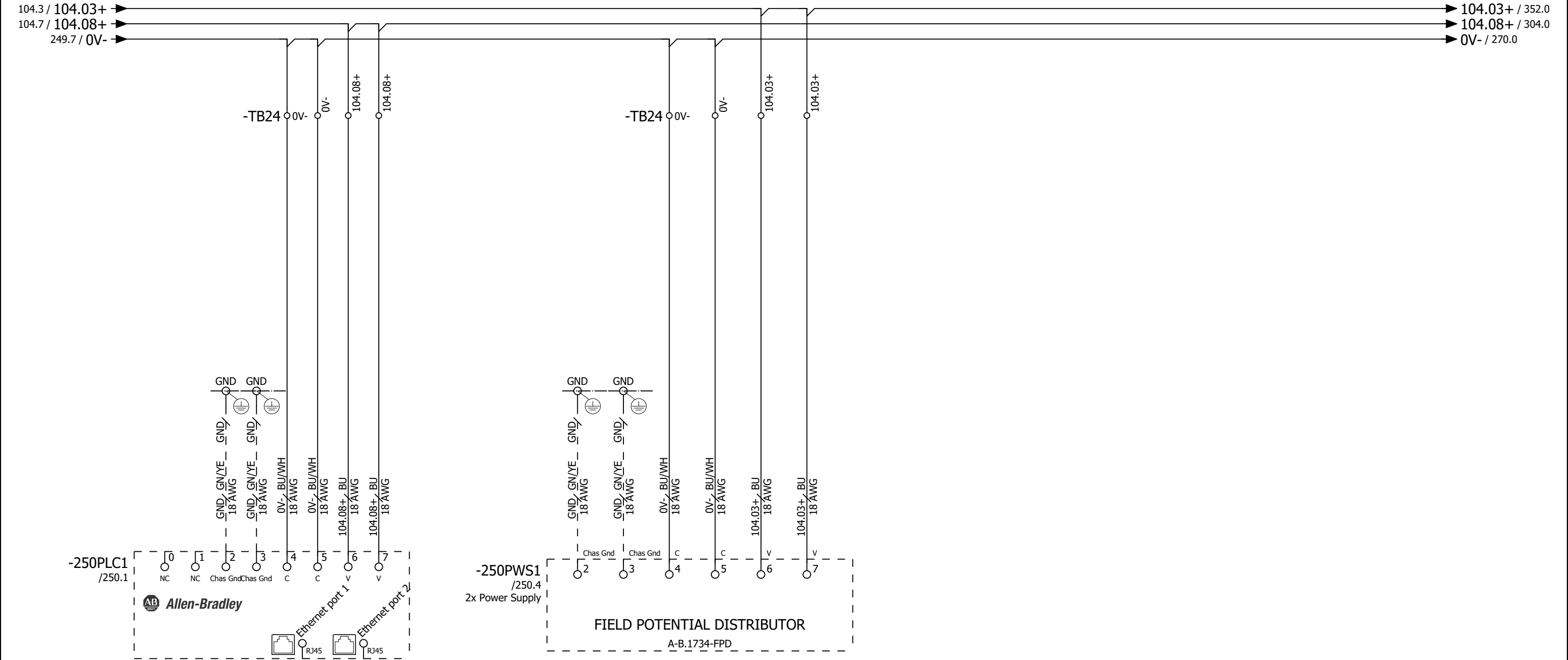


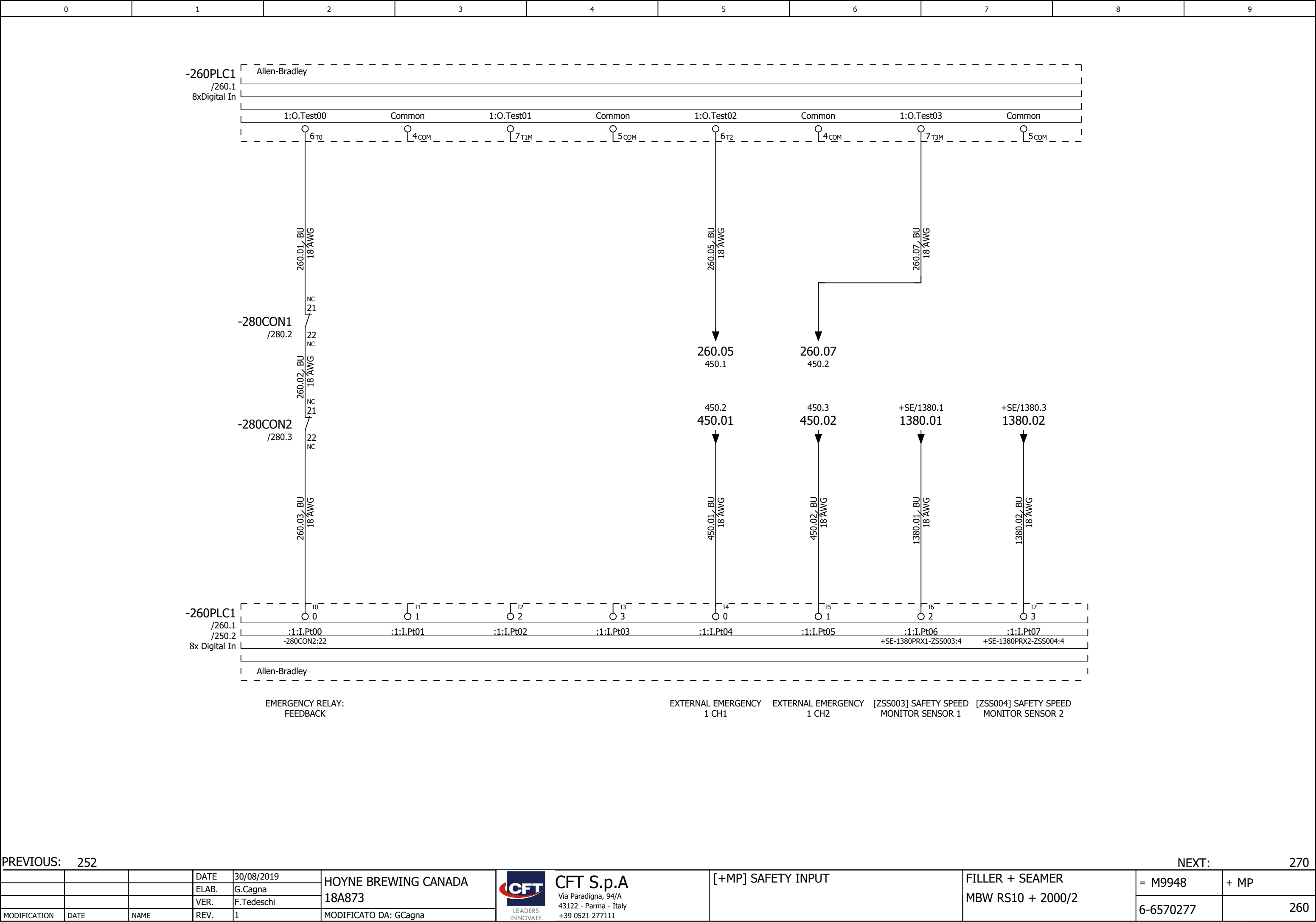


-249TP1
PANELVIEW PLUS 7 - 10 pollici
2711P-T10C22D9P
+DOC/43.7



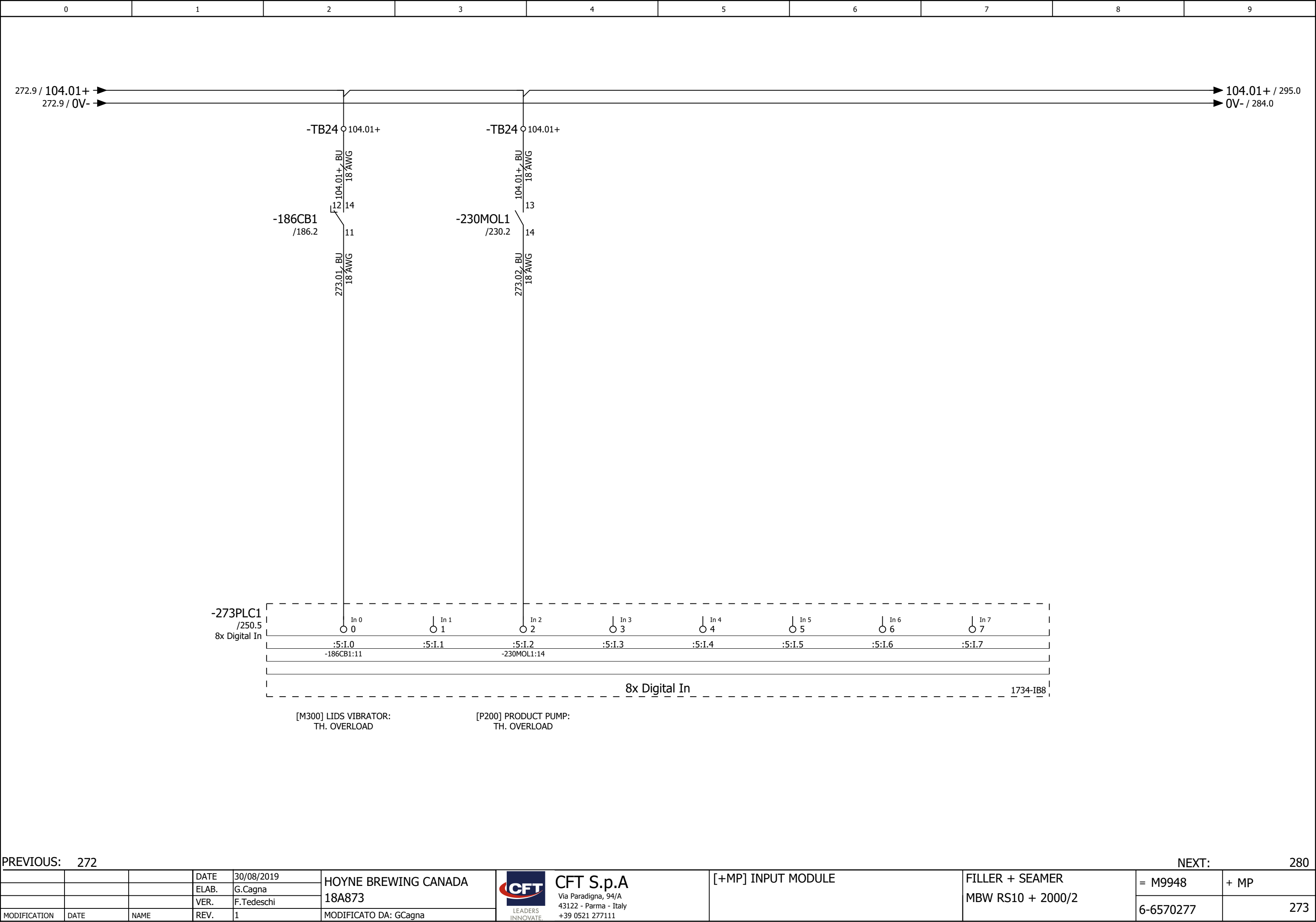












PREVIOUS: 272

DATE

30/08/2019

ELAB.

G.Cagna

VER.

F.Tedeschi

MODIFICATION

DATE

NAME

REV.

1

MODIFICATO DA: GCagna

CFT

LEADERS
INNOVATE

CFT S.p.A

Via Paradigna, 94/A

43122 - Parma - Italy

+39 0521 277111

[+MP] INPUT MODULE

FILLER + SEAMER

MBW RS10 + 2000/2

= M9948

6-6570277

+ MP

273

NEXT:

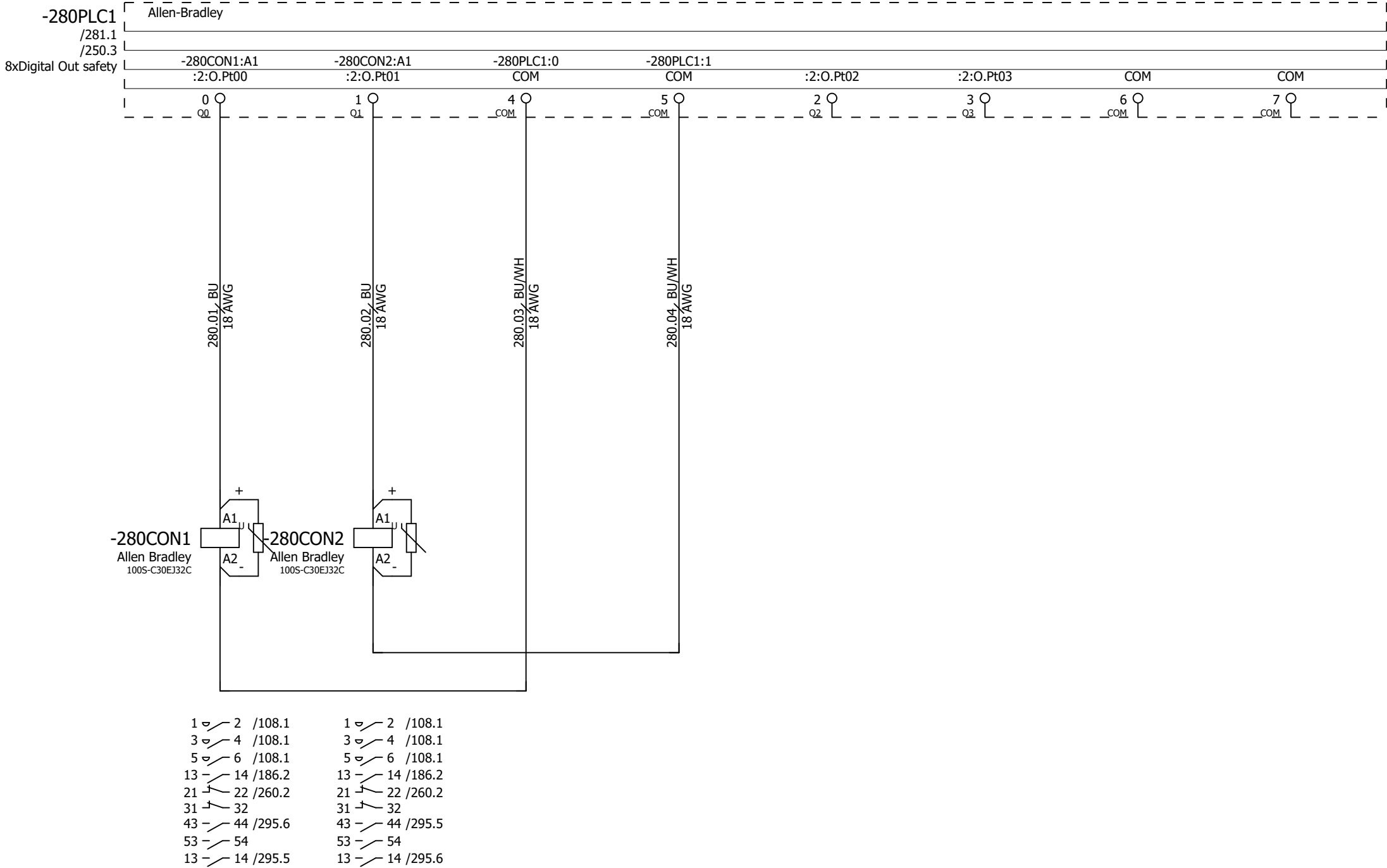
280

EMERGENCY RELAY

EMERGENCY RELAY:

COMMAND

COMMAND



280.01

BU

18 AWG

280.02

BU

18 AWG

280.03

BU/WH

18 AWG

280.04

BU/WH

18 AWG

-280CON1

Allen Bradley

100S-C30EJ32C

A1

A2

-280CON2

Allen Bradley

100S-C30EJ32C

A1

A2

1

2

/108.1

3

4

/108.1

5

6

/108.1

13

14

/186.2

21

22

/260.2

31

32

43

44

/295.6

53

54

13

14

/295.5

1

2

/108.1

3

4

/108.1

5

6

/108.1

13

14

/186.2

21

22

/260.2

31

32

43

44

/295.5

53

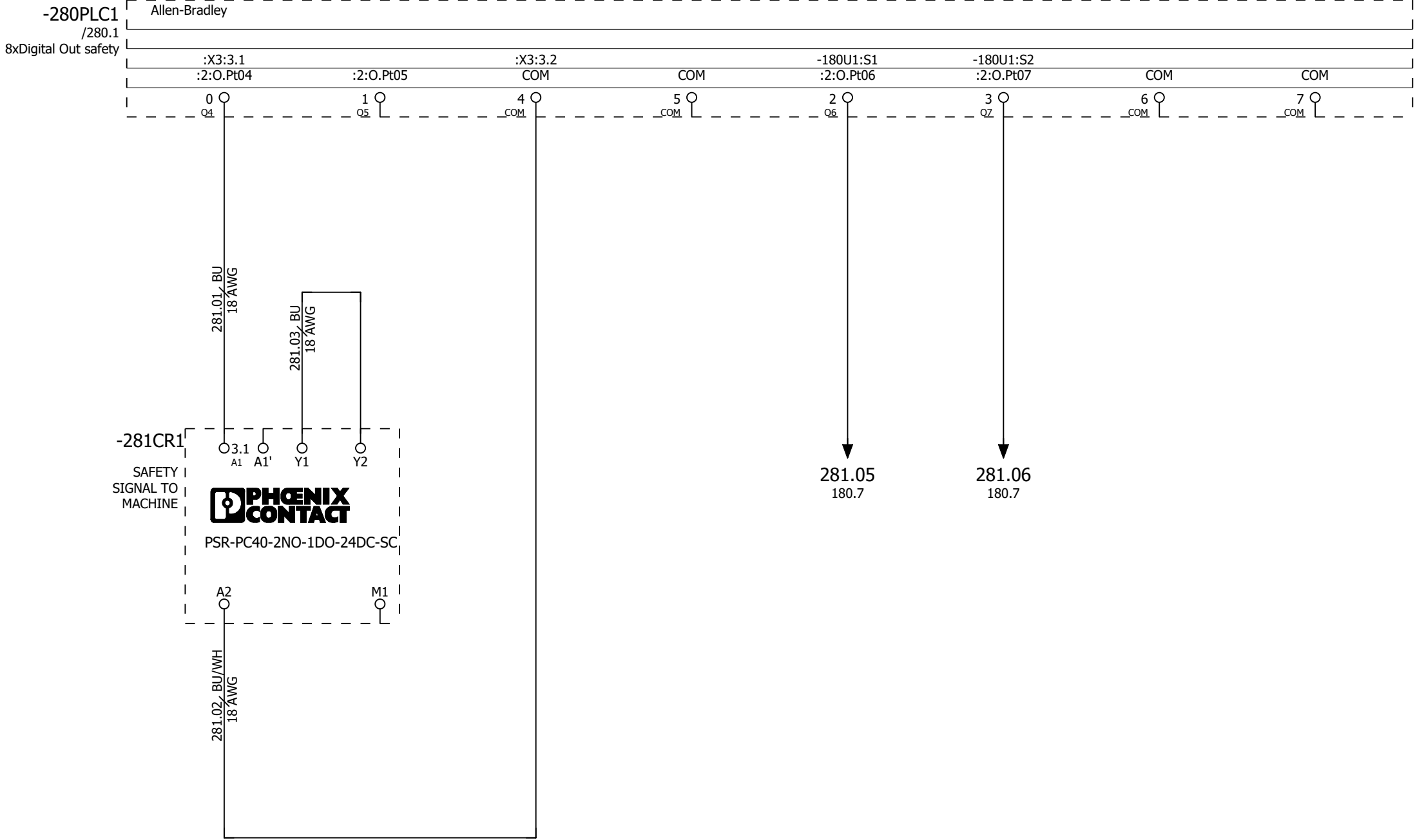
54

13

14

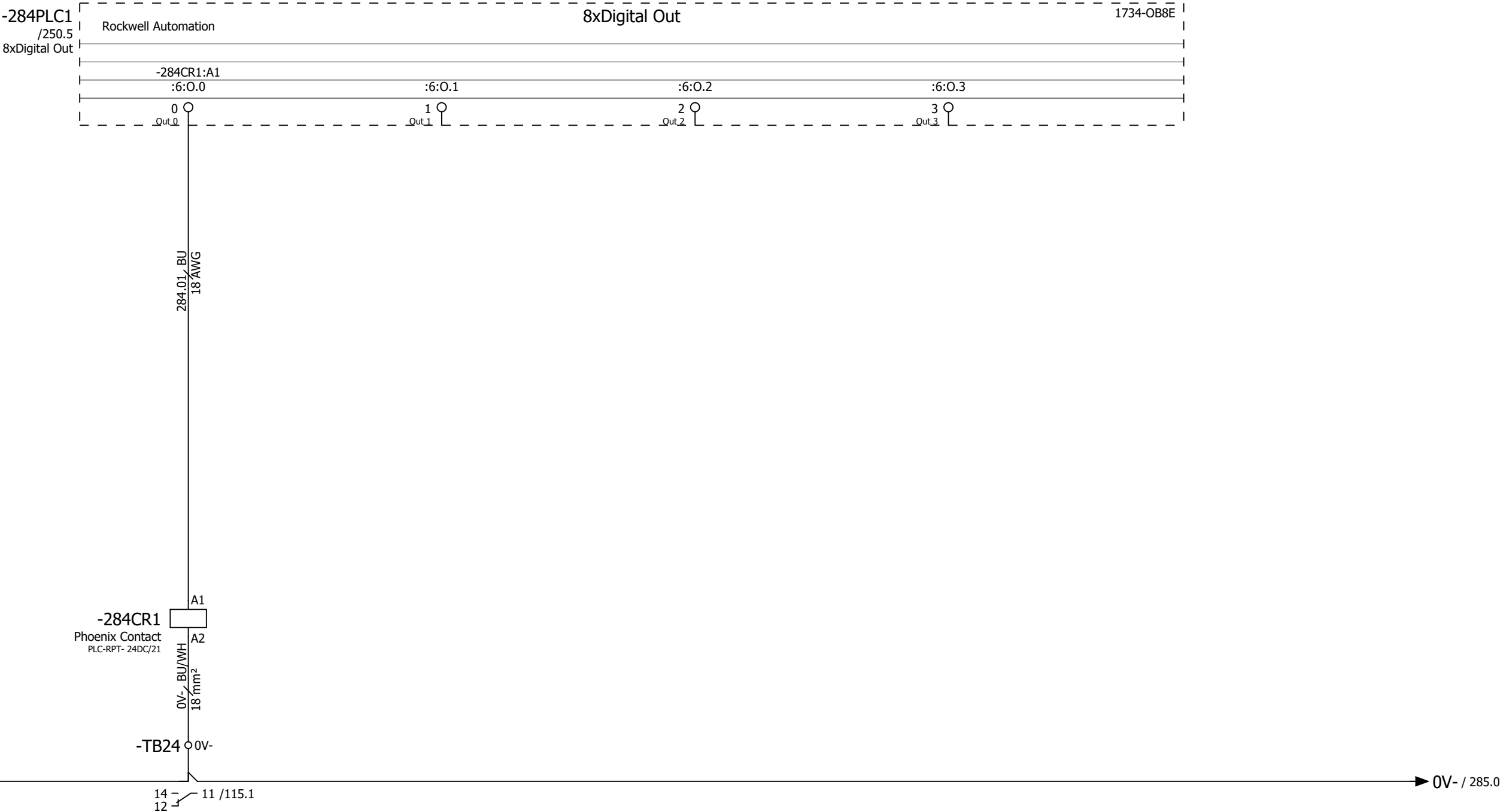
/295.6

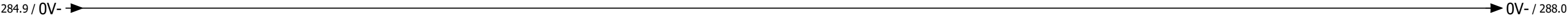
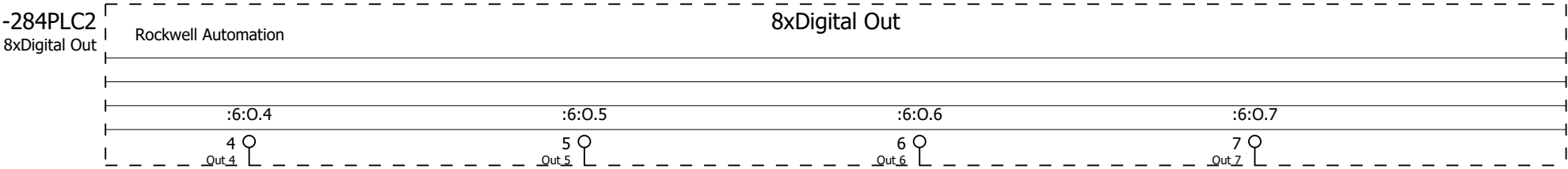
SAFETY SIGNAL TO
MACHINE



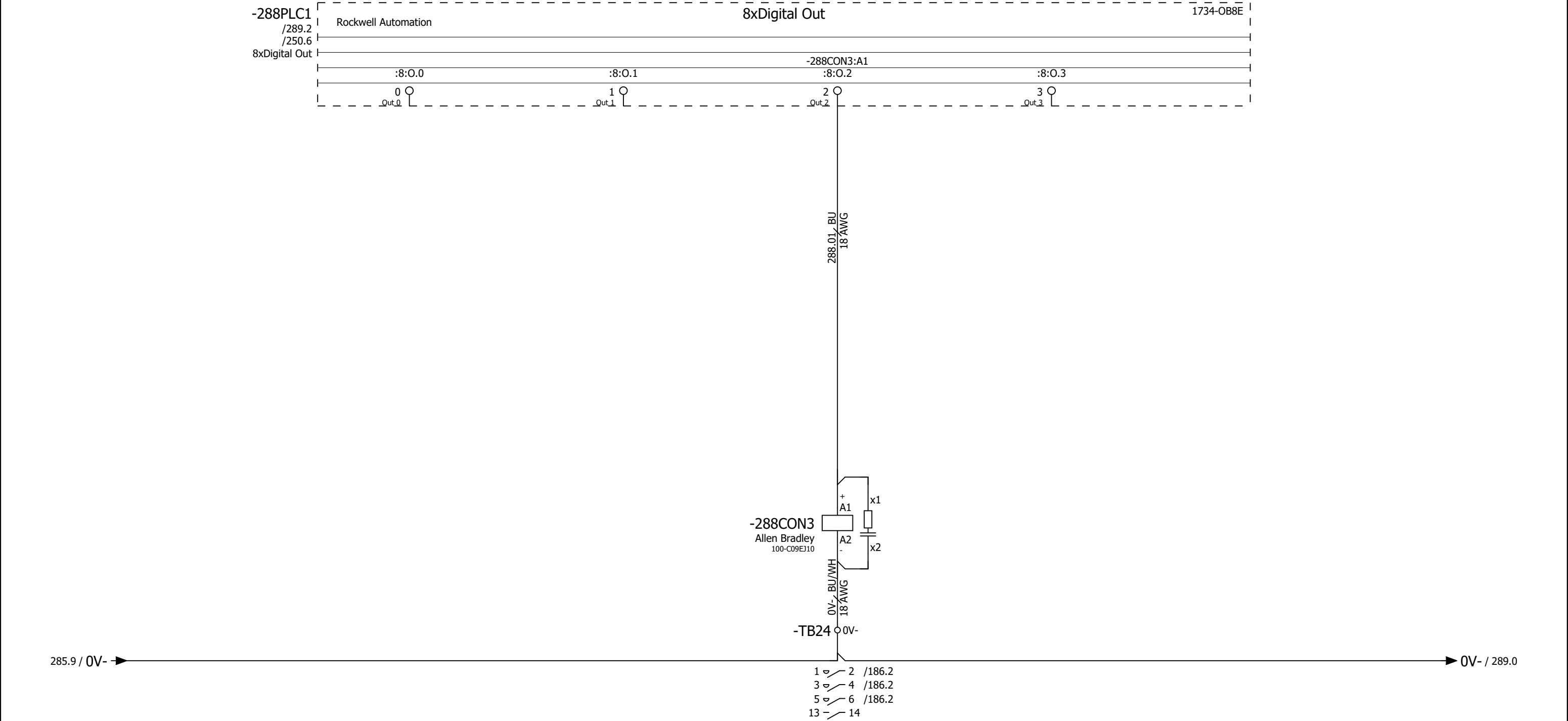
13 ~ 14 /450.4
23 ~ 24 /450.5

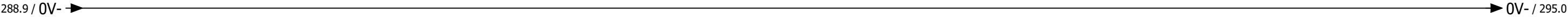
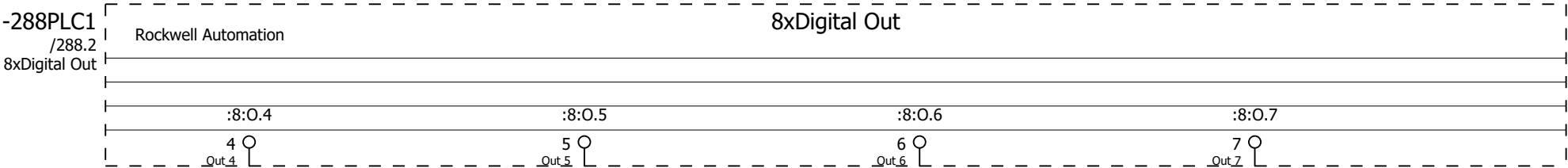
CARTERS SAFETY
SWITCH RESET

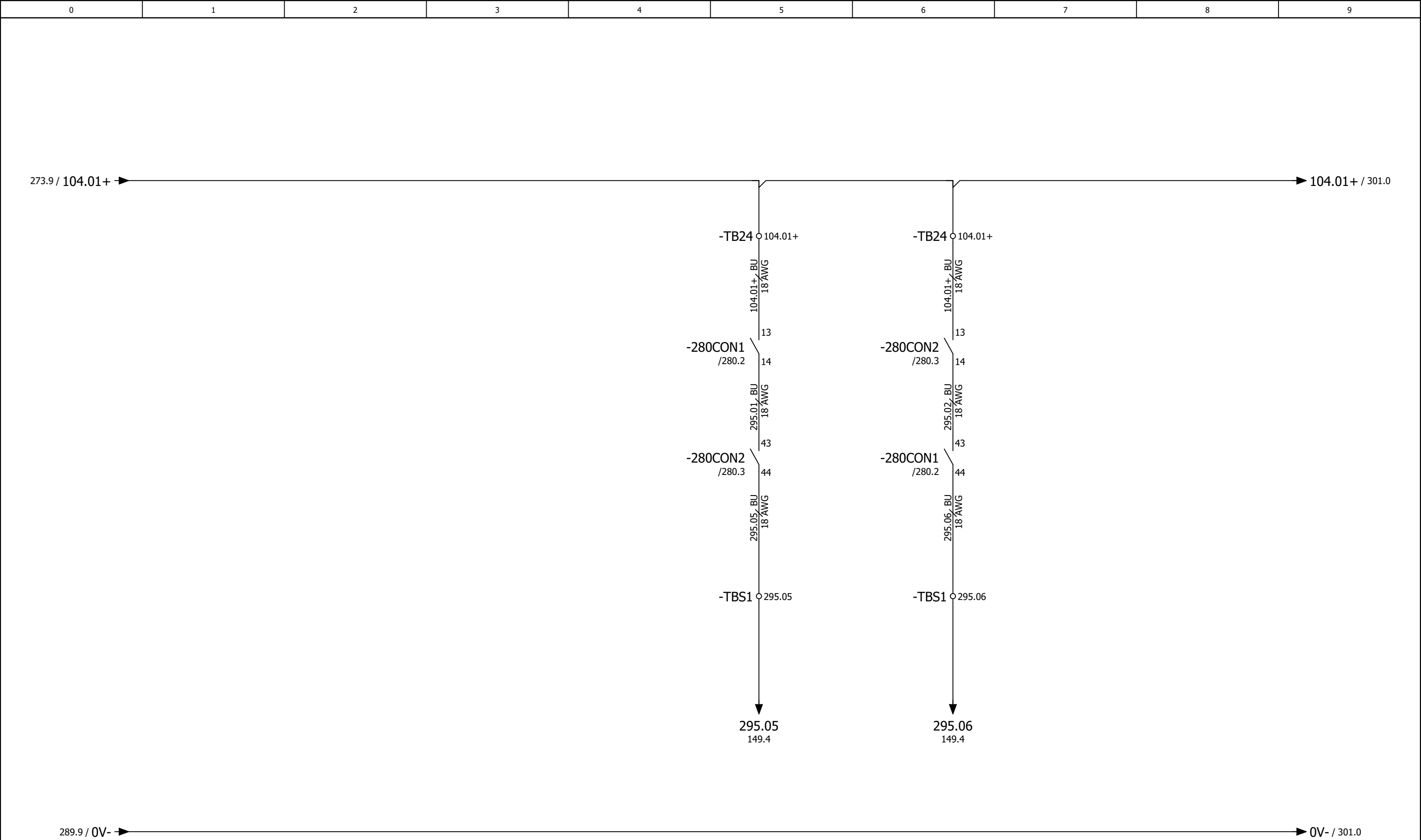




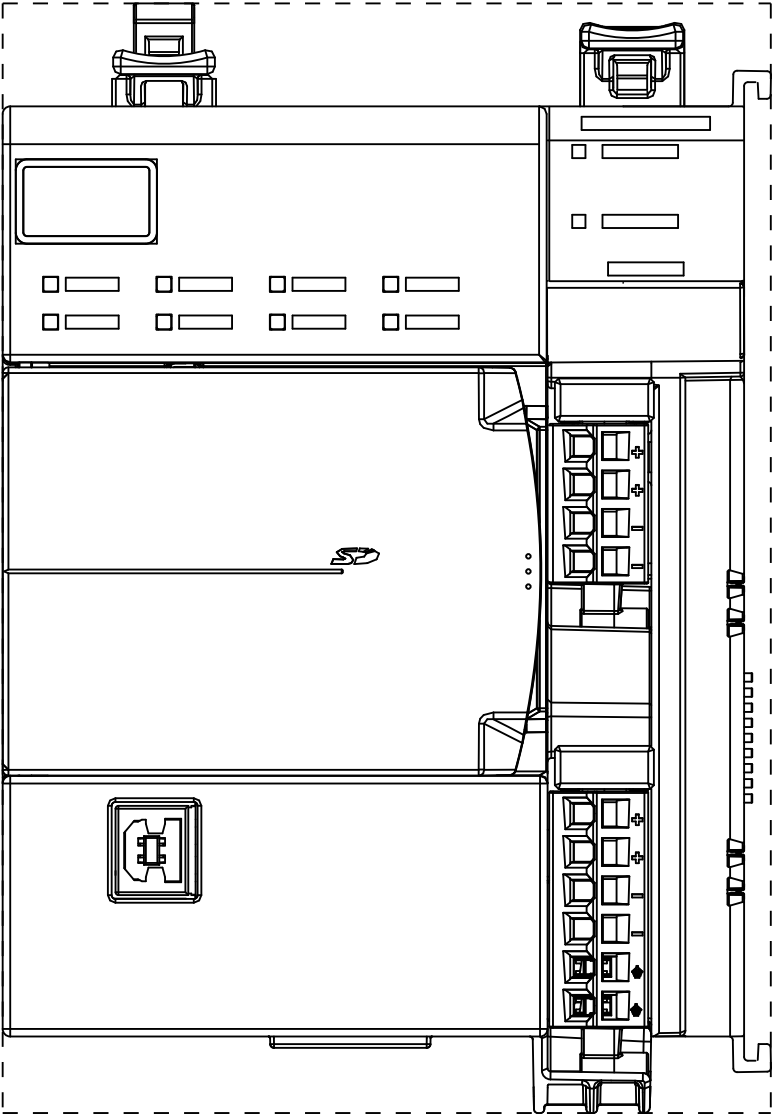
[M300] LIDS
VIBRATOR: CMD







-300PLC1
5069-L320ERS2
+DOC/43.0
/301.1



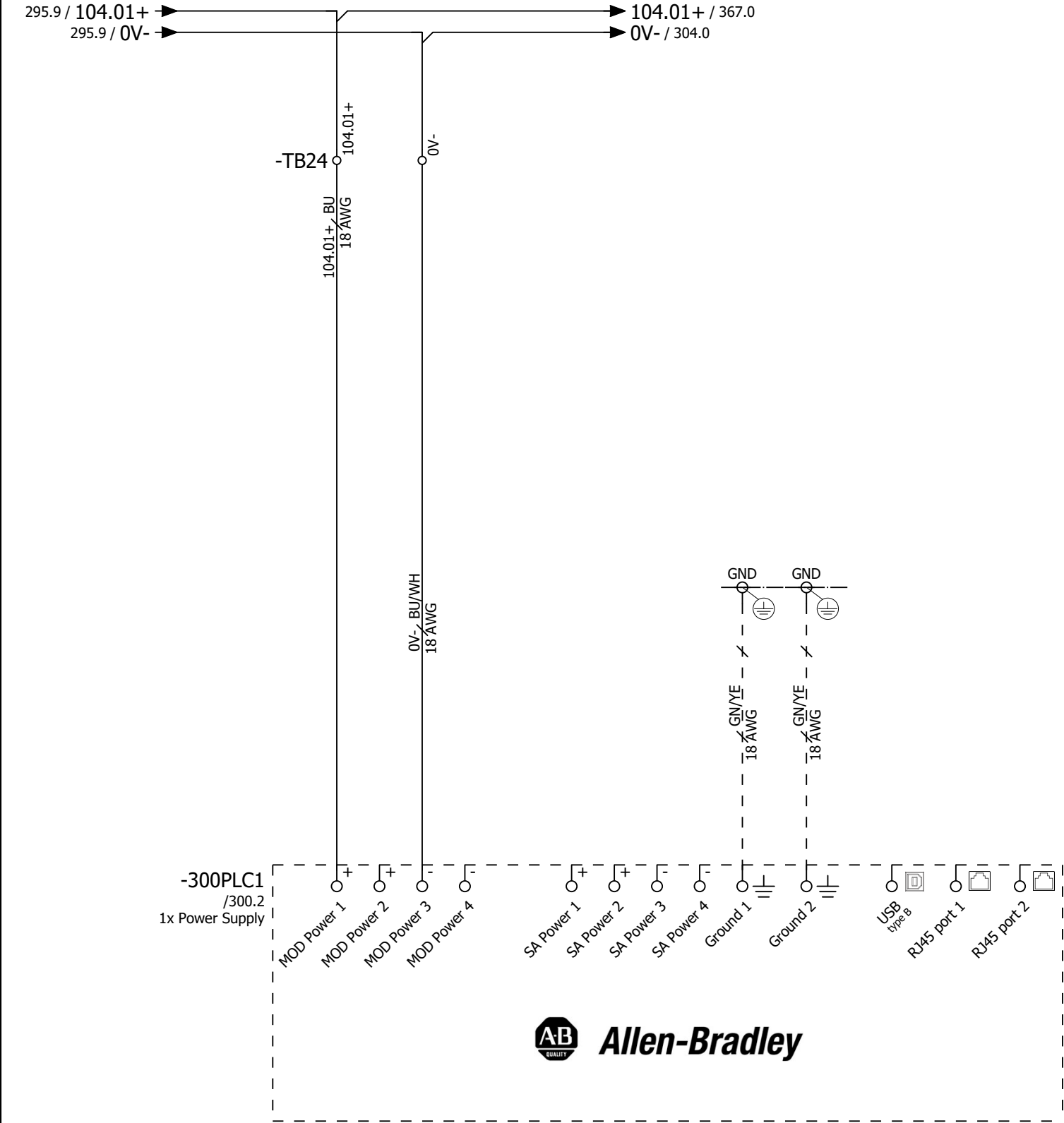
250.1 / 300PLC1-P1

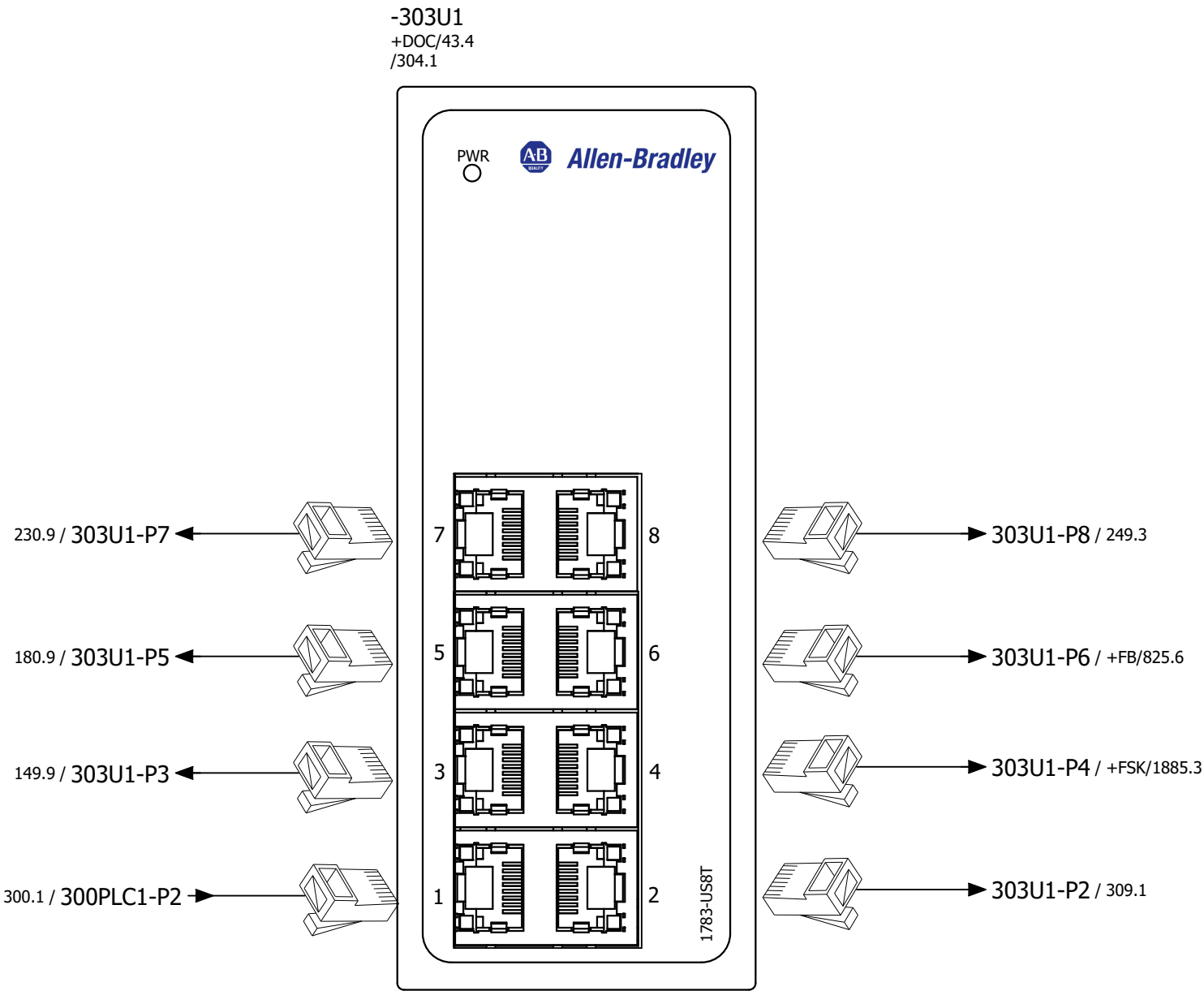
303.1 / 300PLC1-P2

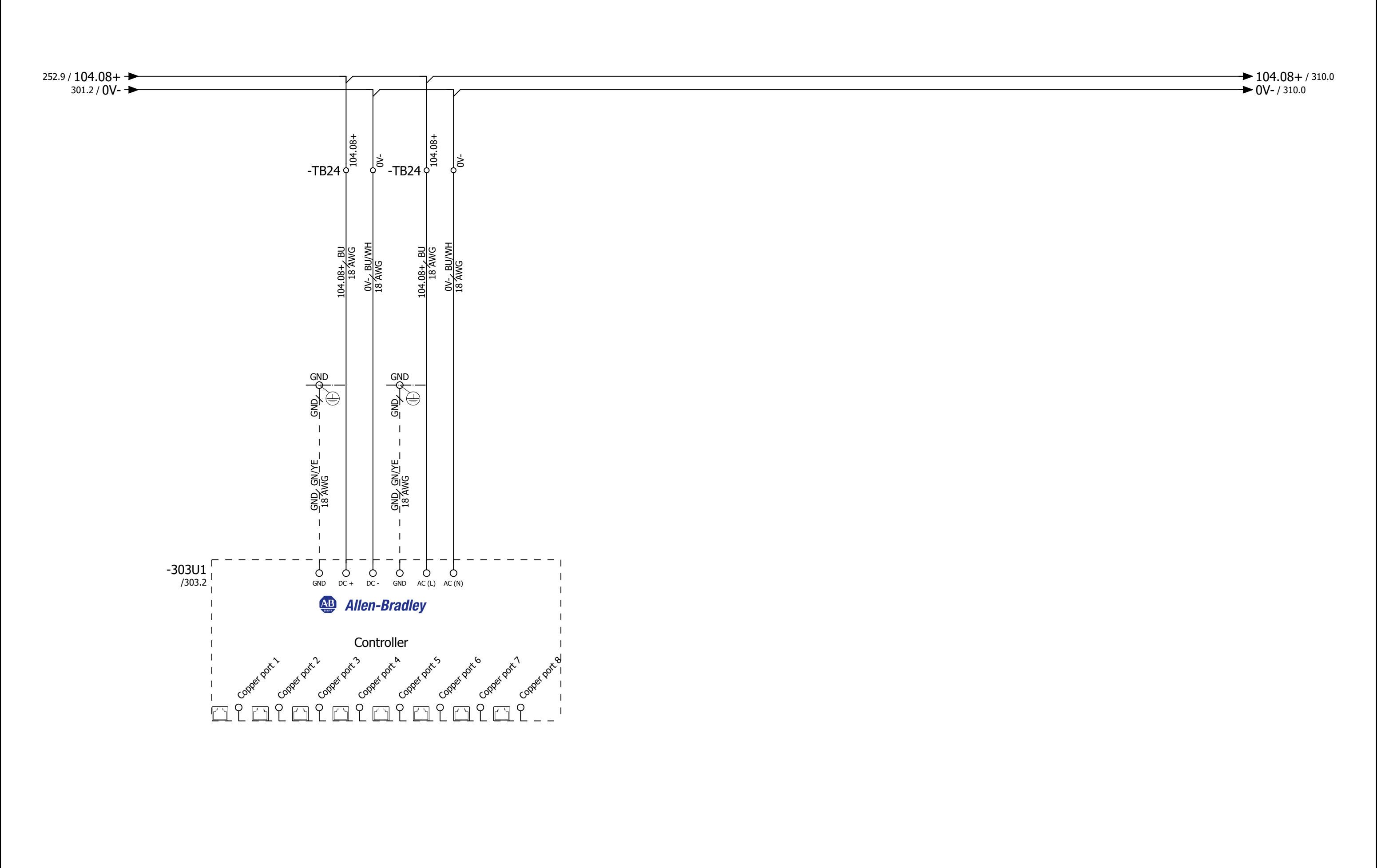
PREVIOUS: 295

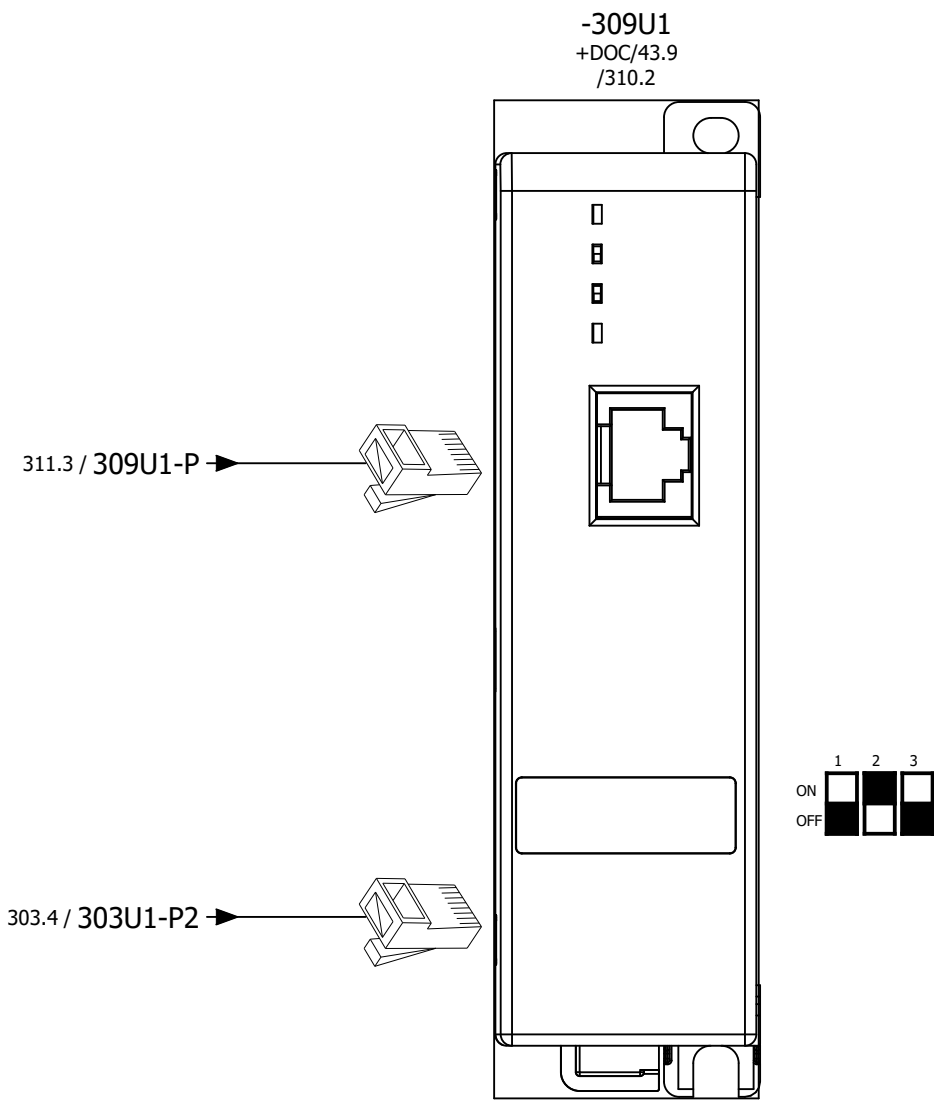
NEXT: 301

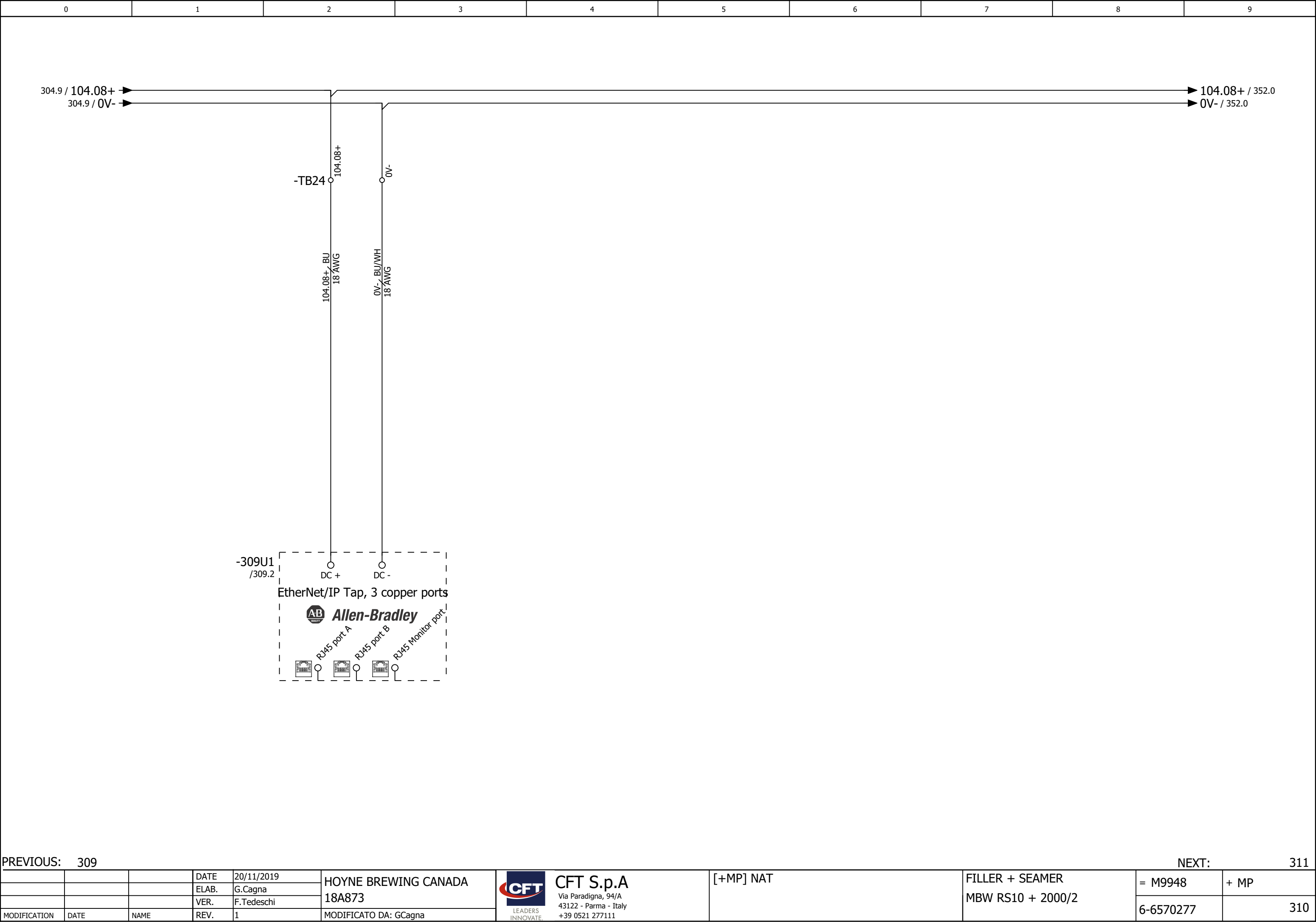
			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] PLC	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	300









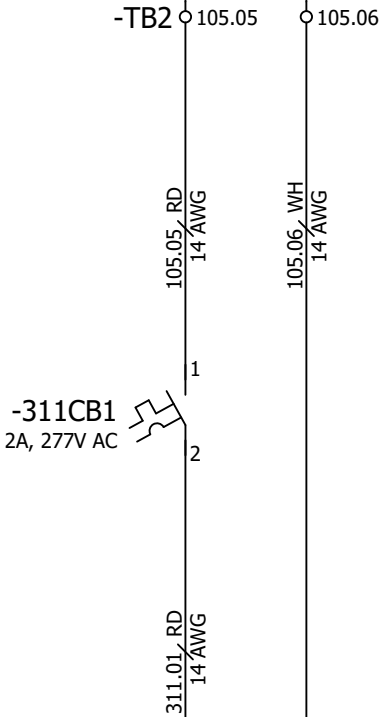


186.3 / 105.05 →

186.3 / 105.06 →

105.05 /

105.06 /

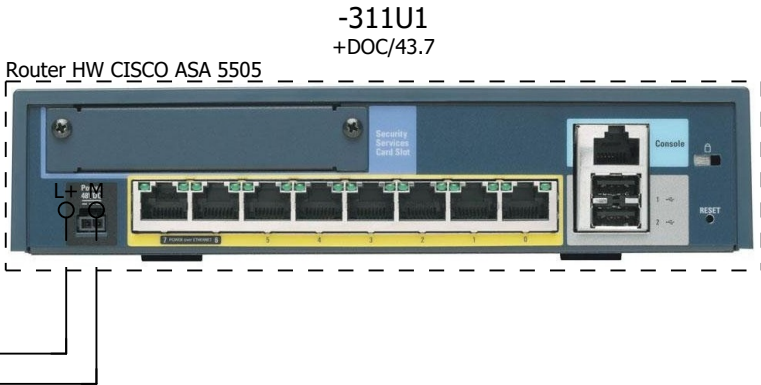


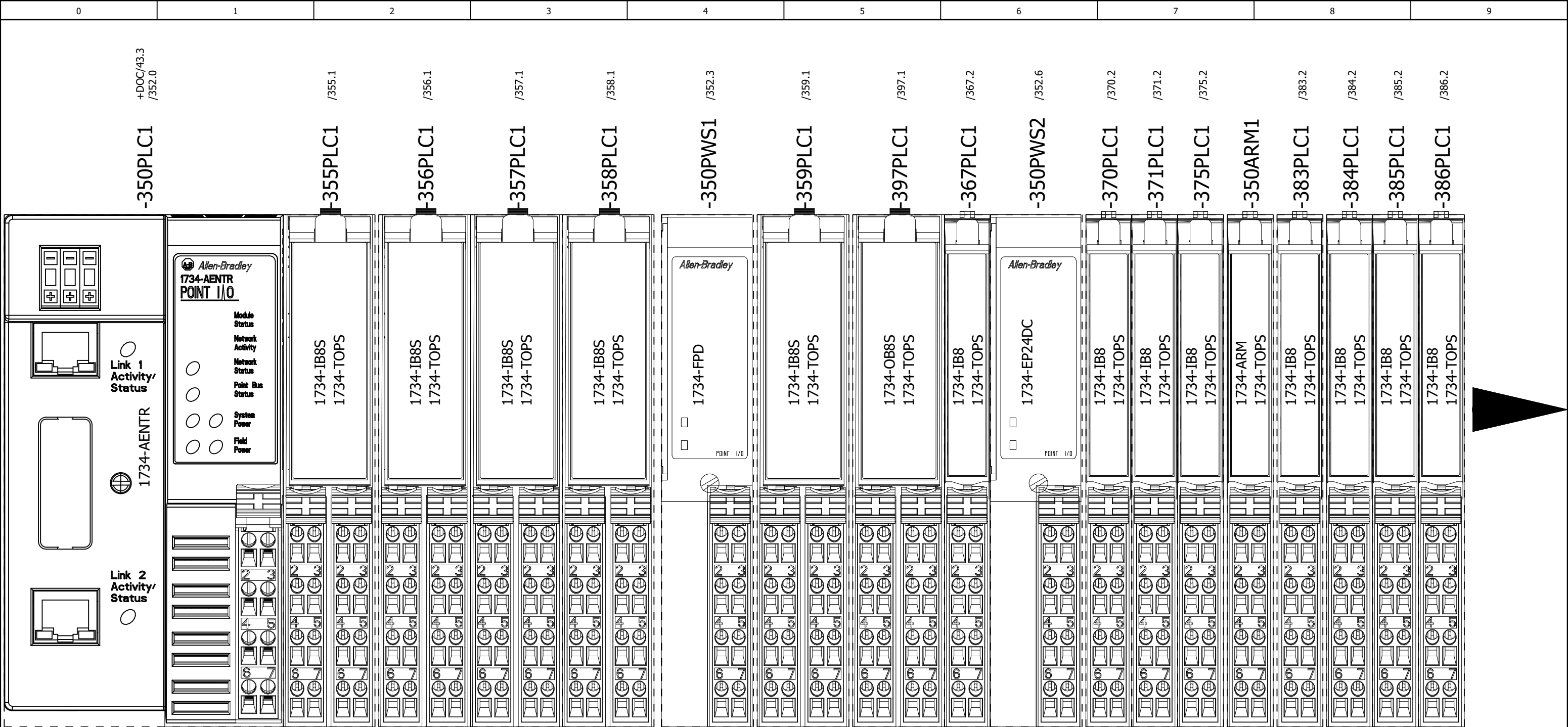
NOTE:

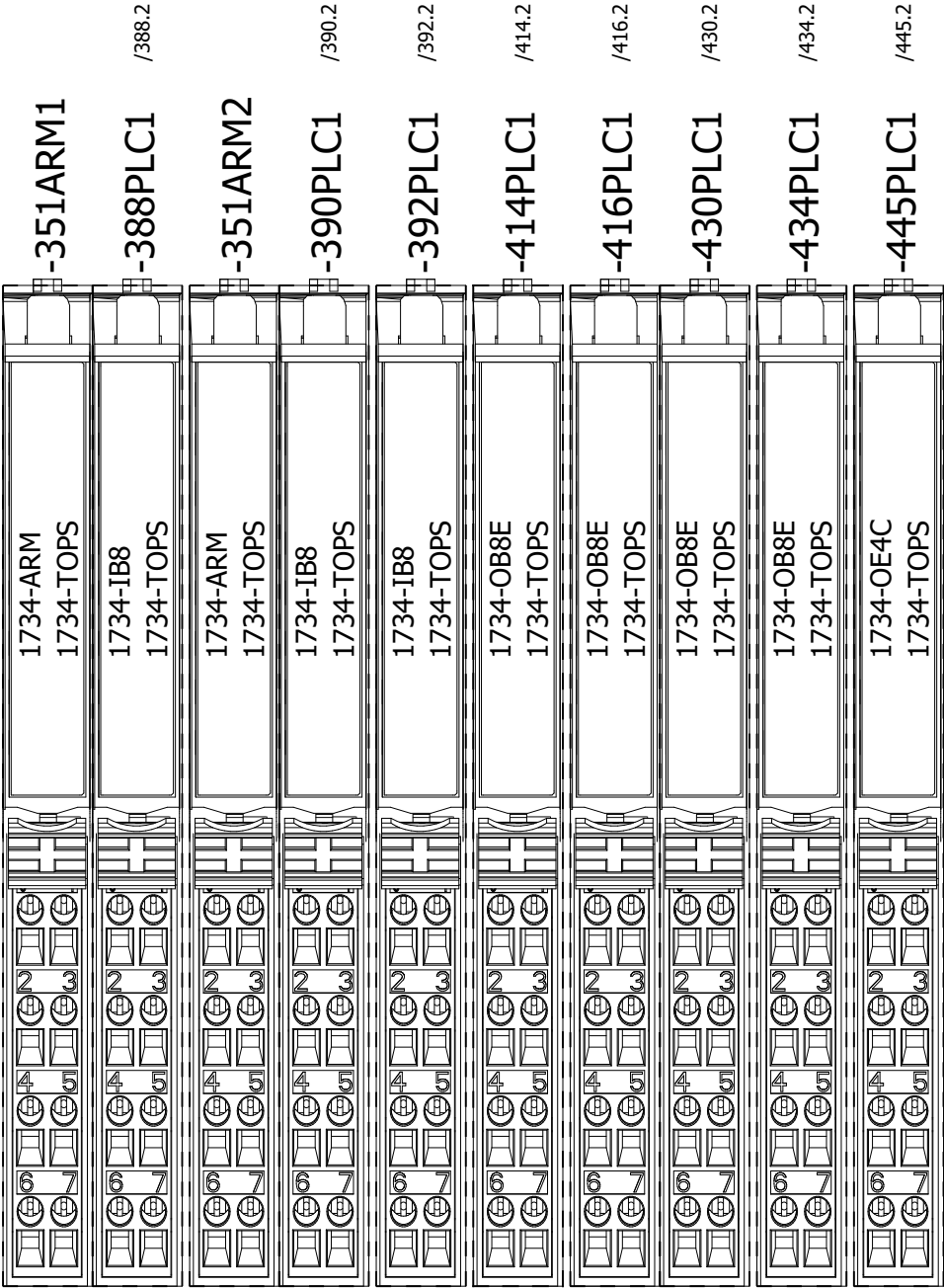
P1 = COSTUMER CABLE INTERNET

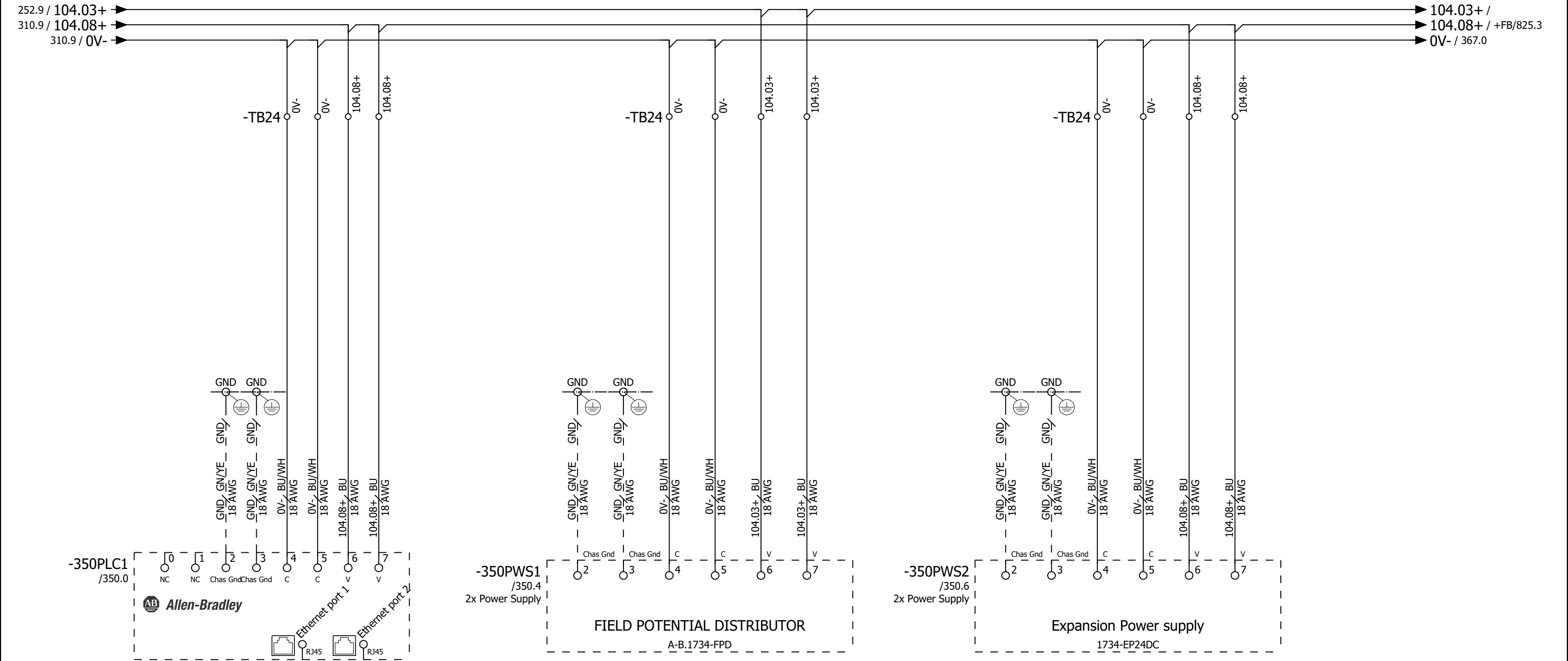
P2 = NOT CONNETED

P3 = NAT

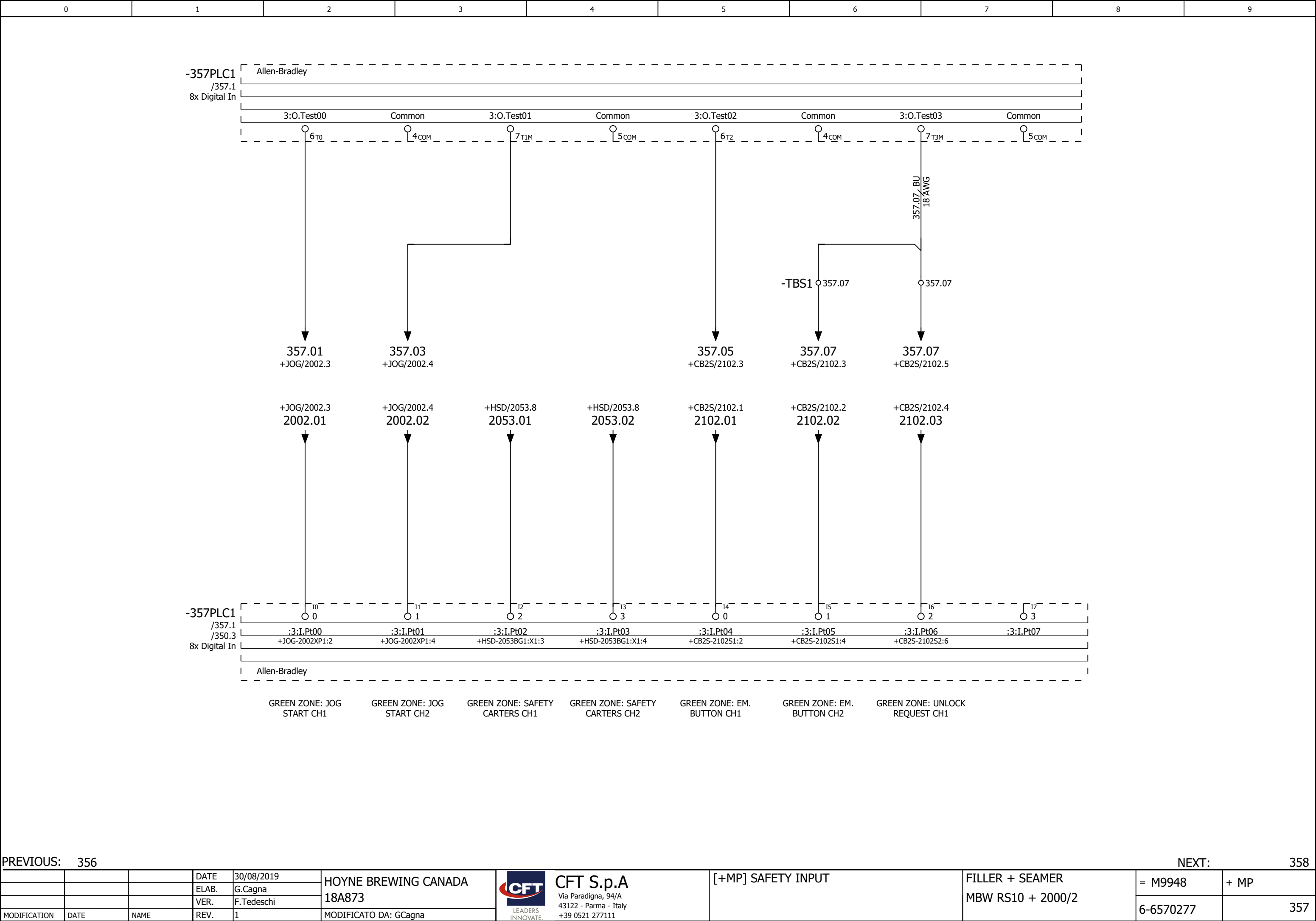


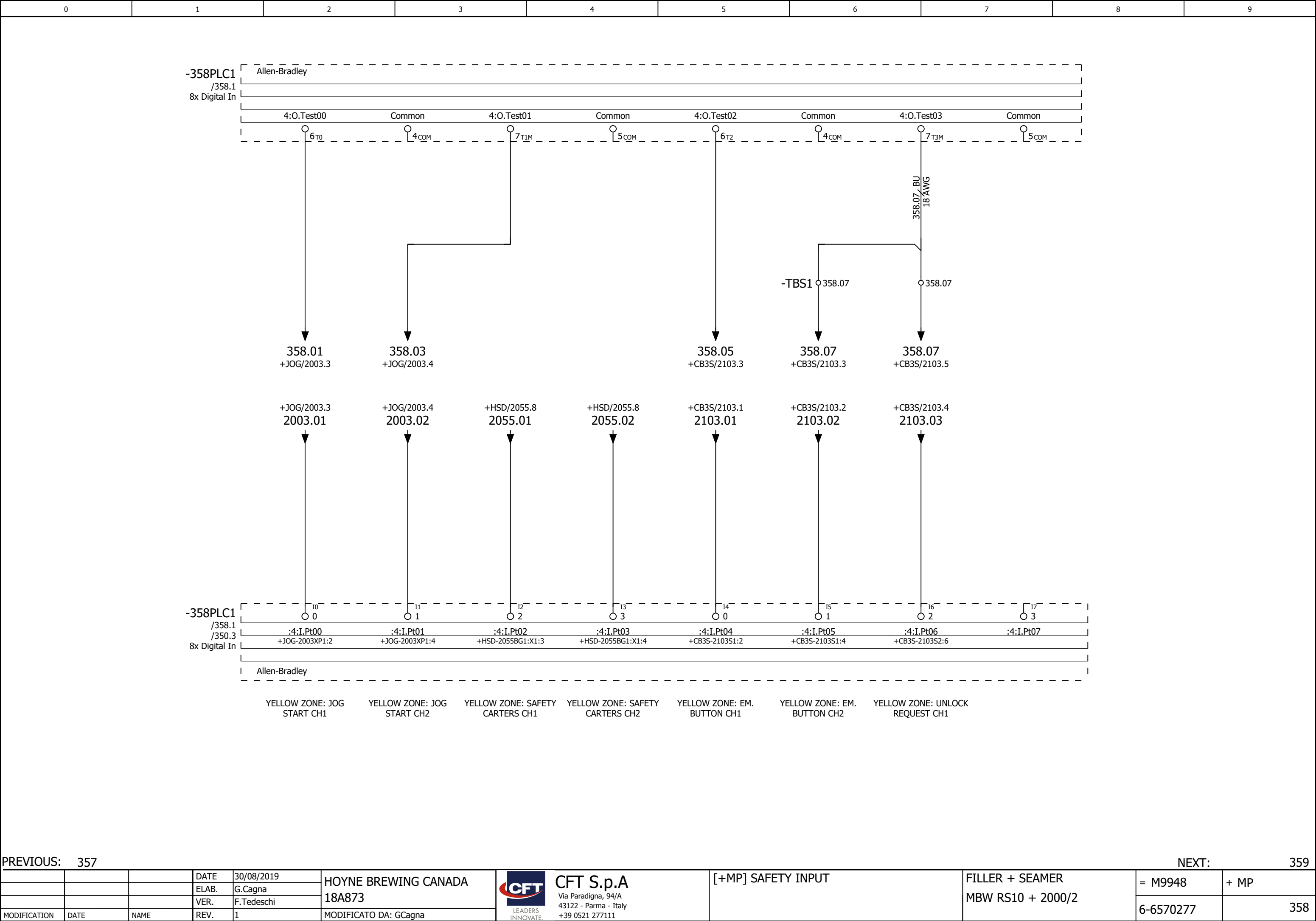








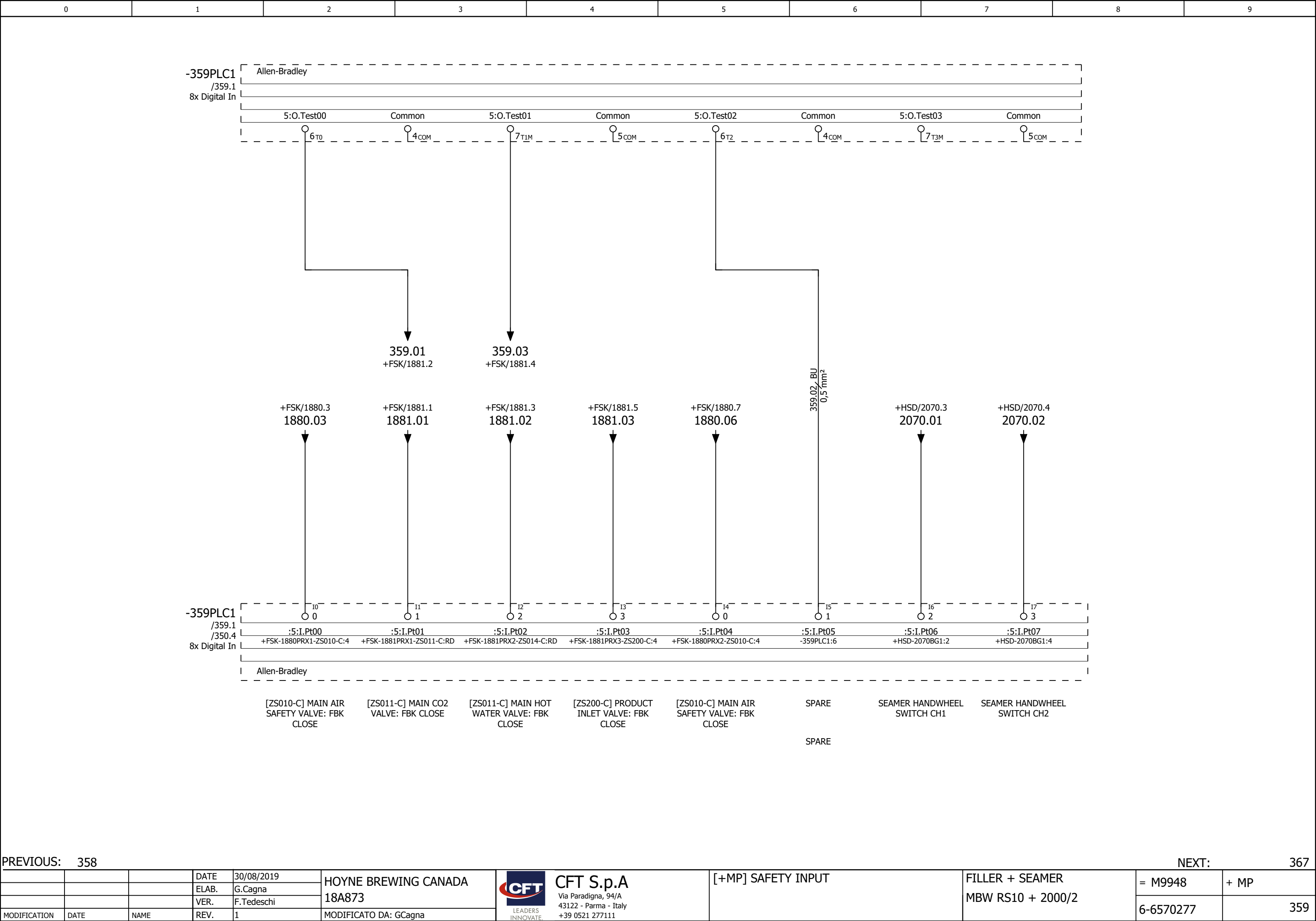




PREVIOUS: 357

			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] SAFETY INPUT	FILLER + SEAMER MBW RS10 + 2000/2	= M9948 6-6570277	+ MP 358
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna					

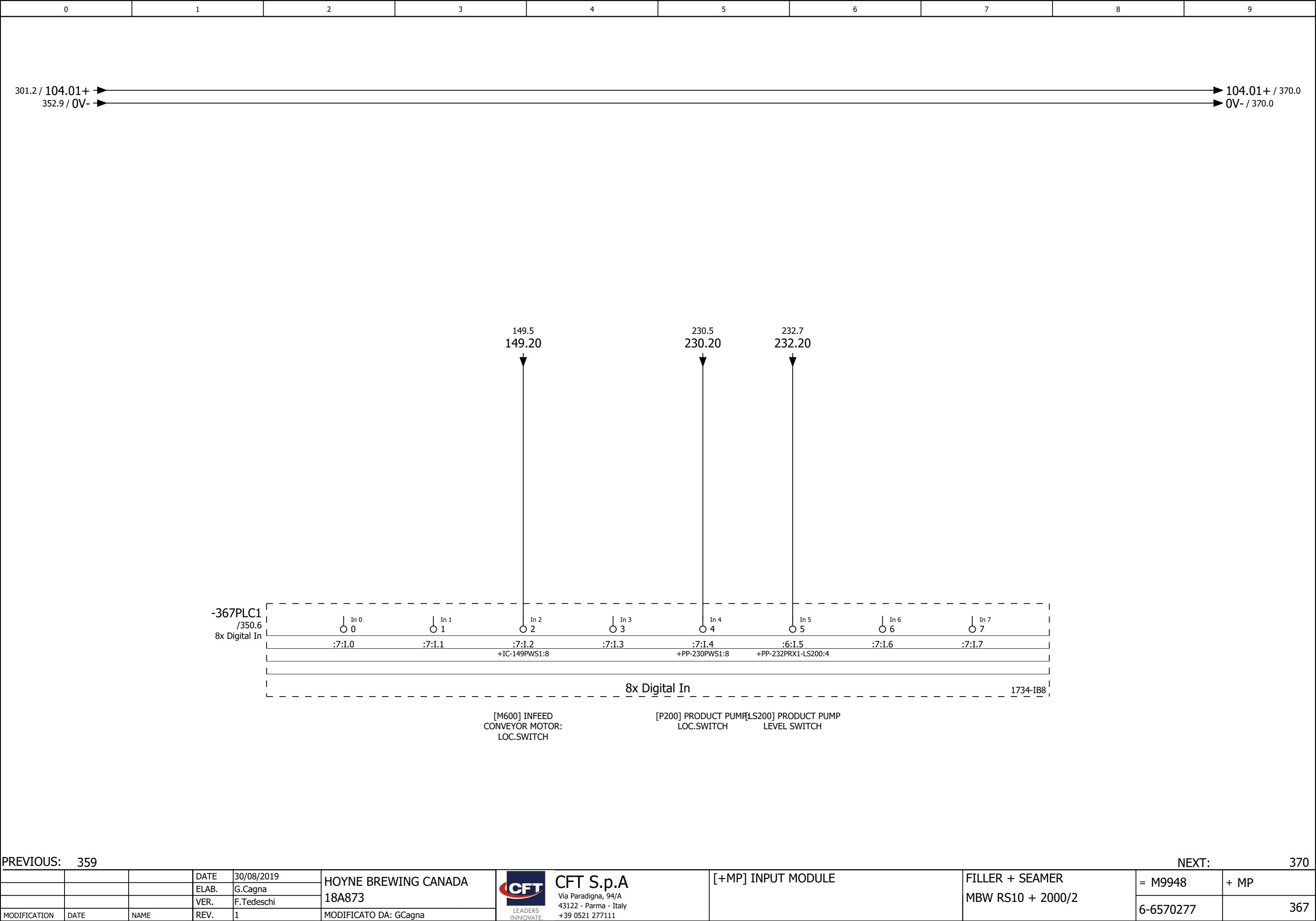
NEXT: 359



PREVIOUS:358

			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] SAFETY INPUT	FILLER + SEAMER MBW RS10 + 2000/2	= M9948 6-6570277	+ MP 359
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna					

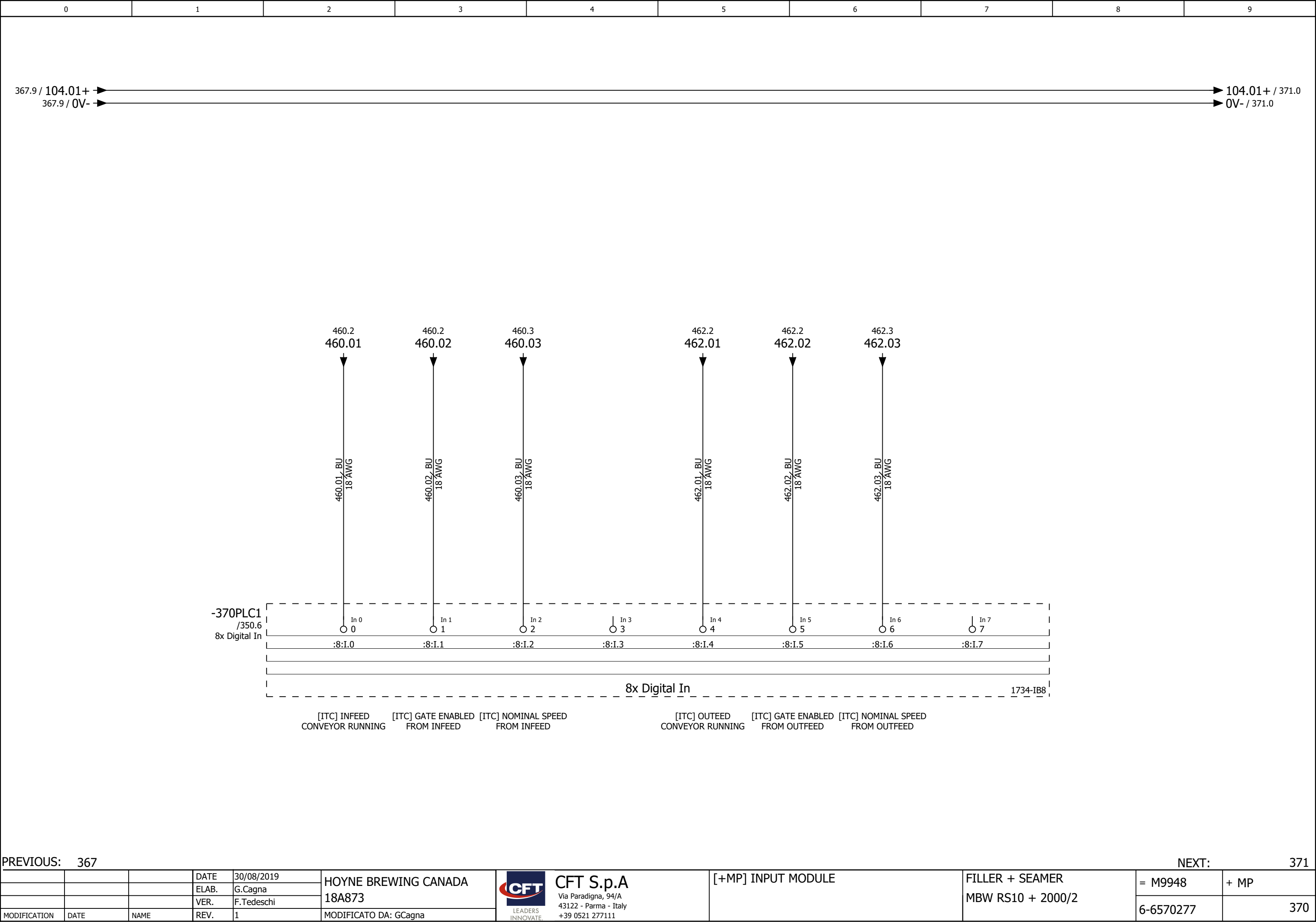
NEXT:367

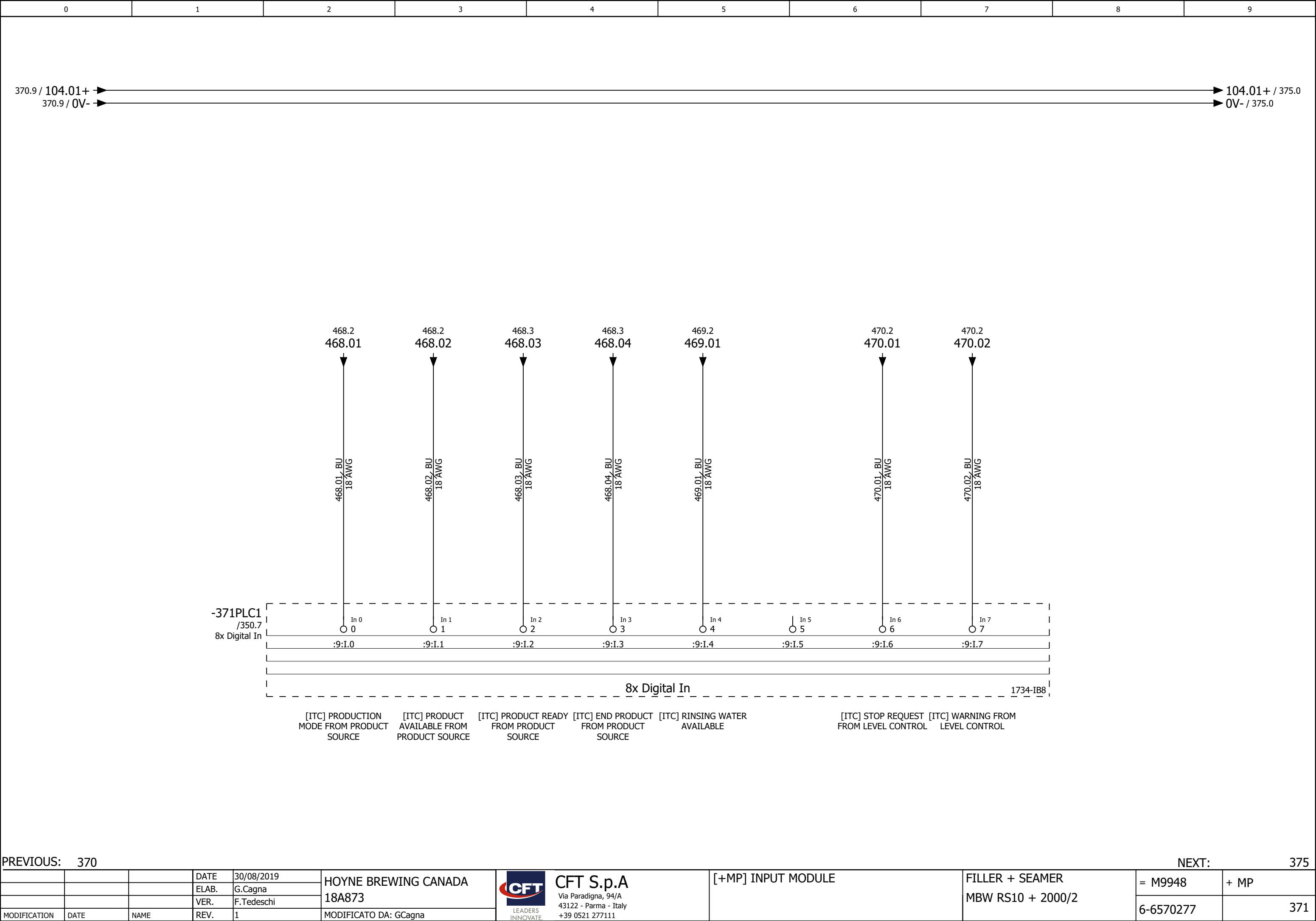


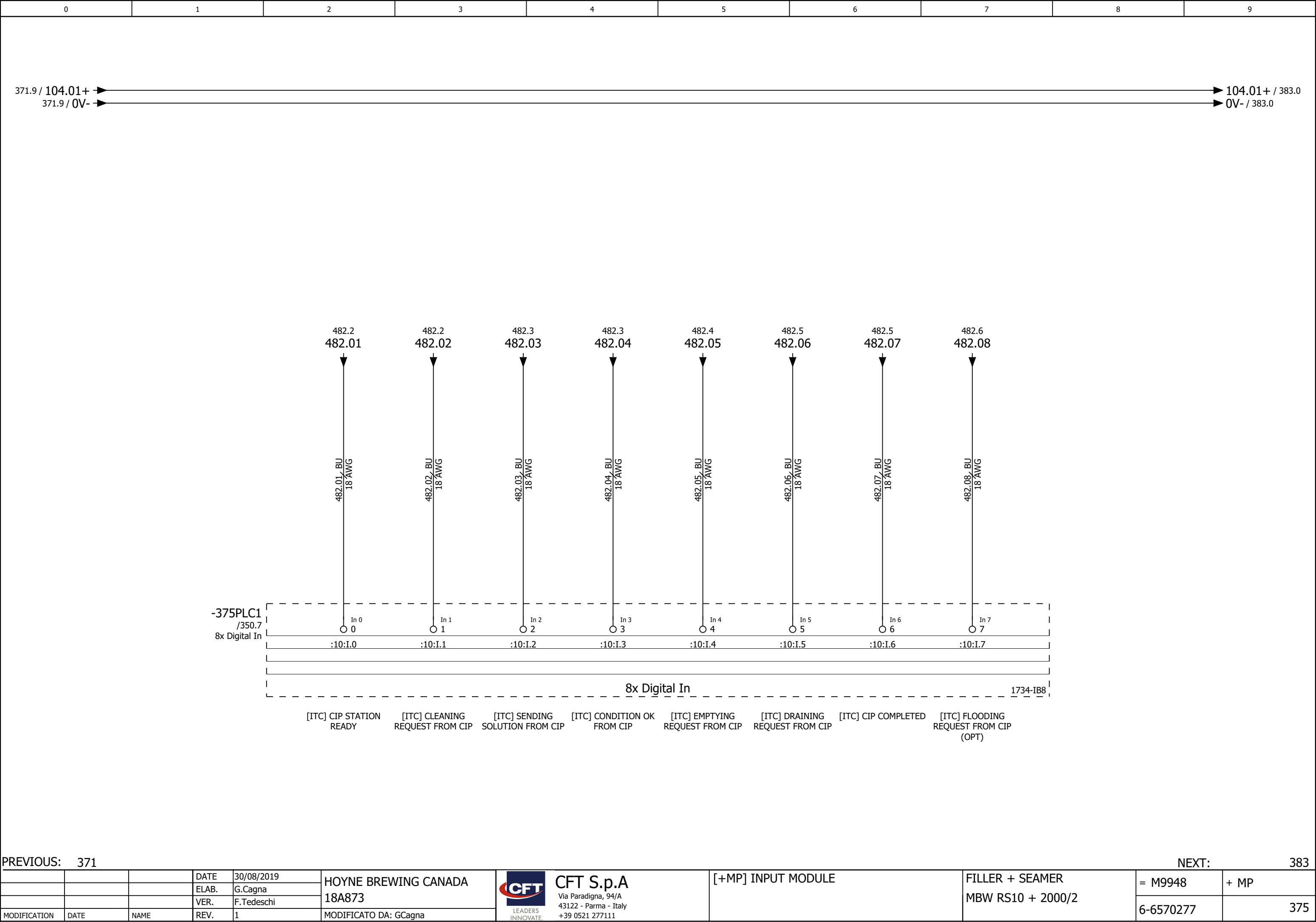
PREVIOUS:359

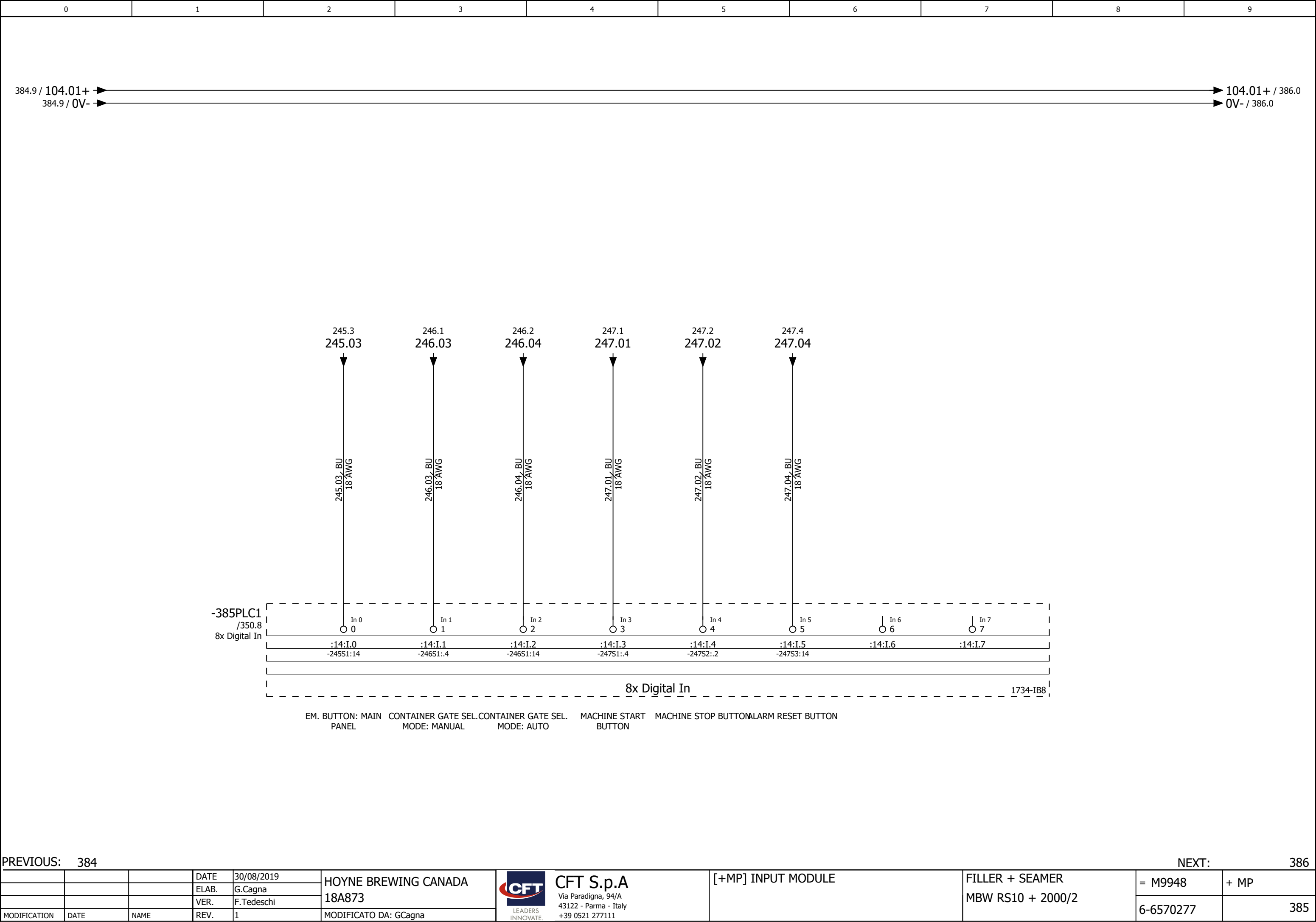
			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] INPUT MODULE	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna					6-6570277	367
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna					

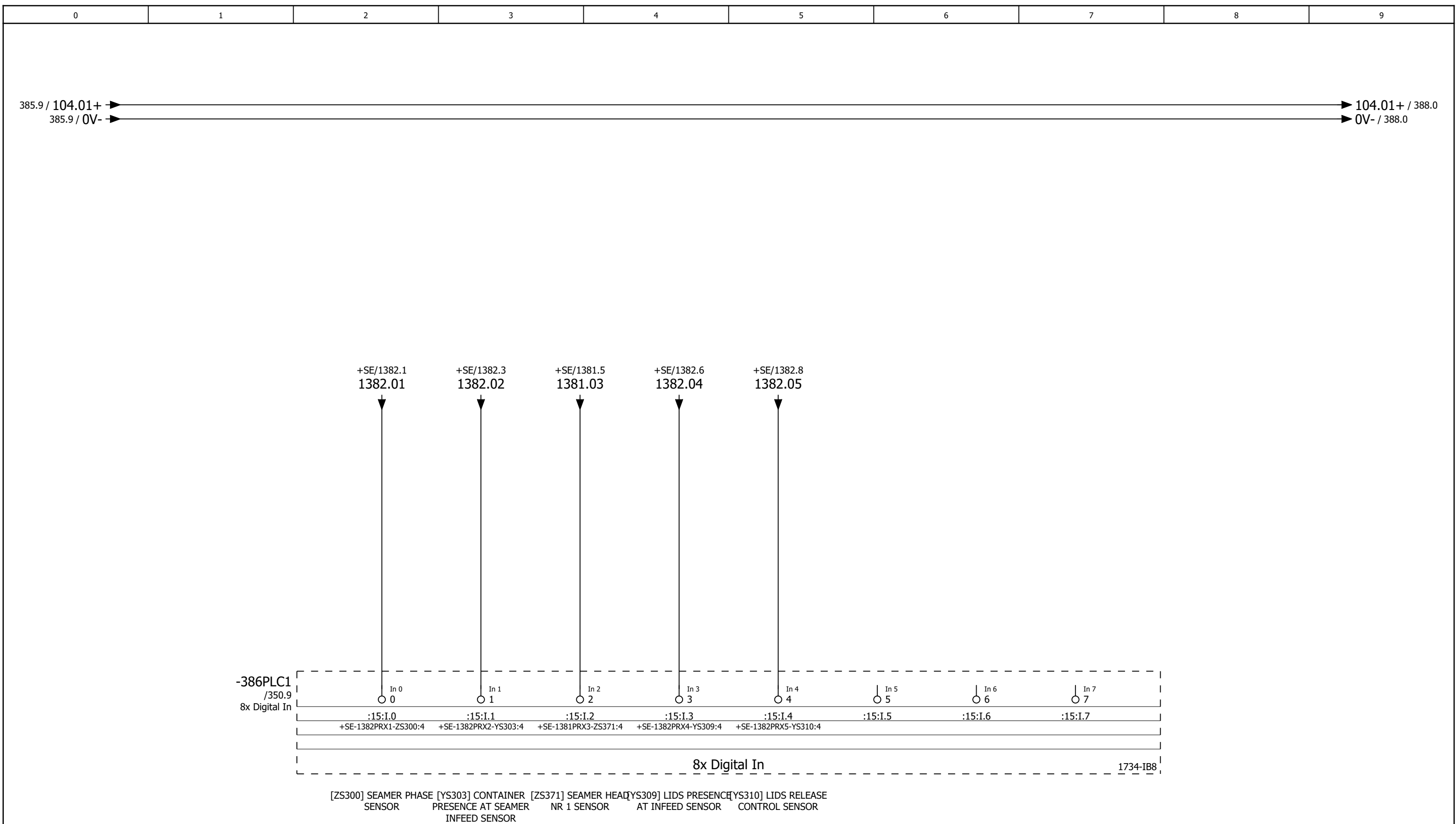
NEXT:370

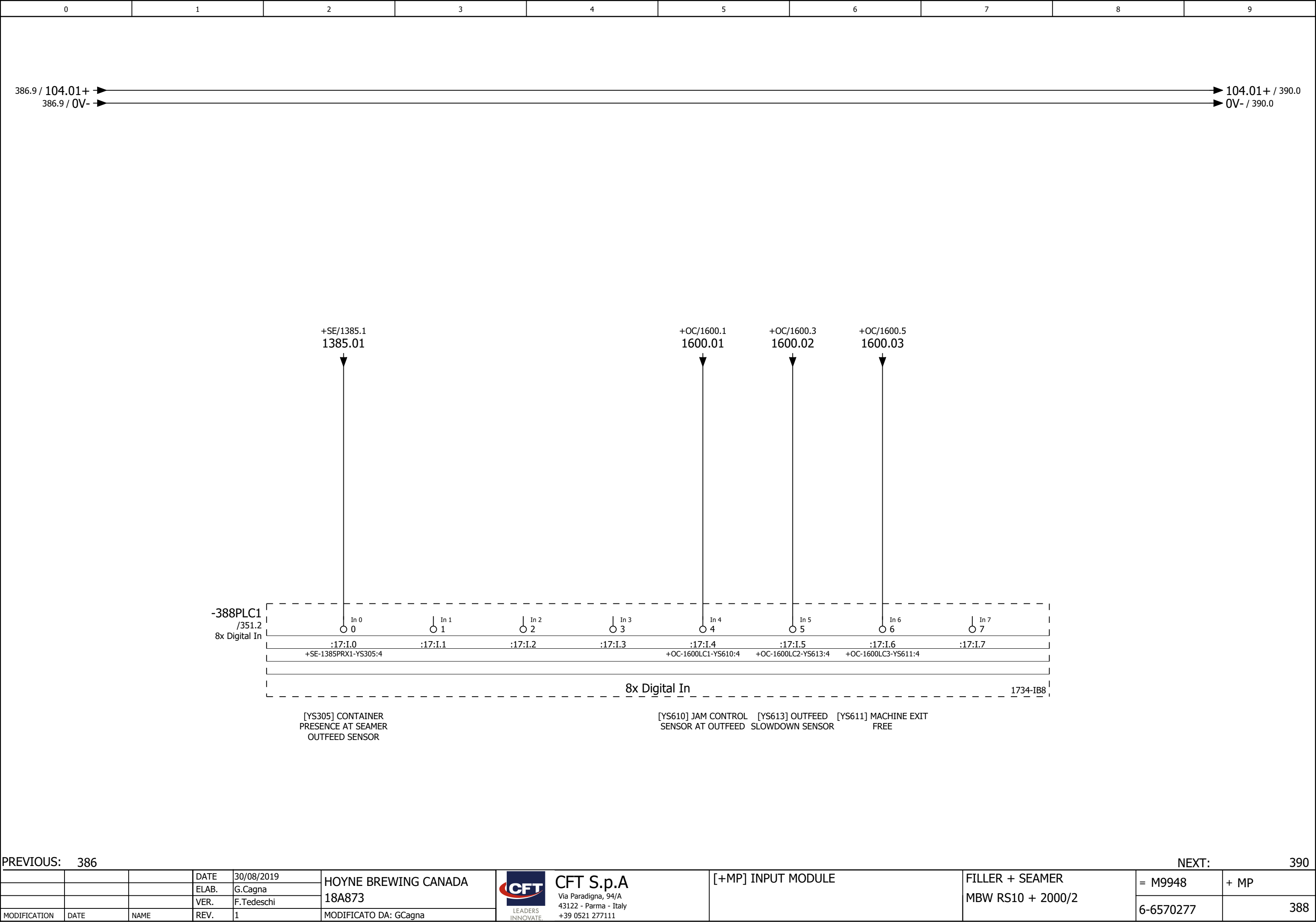




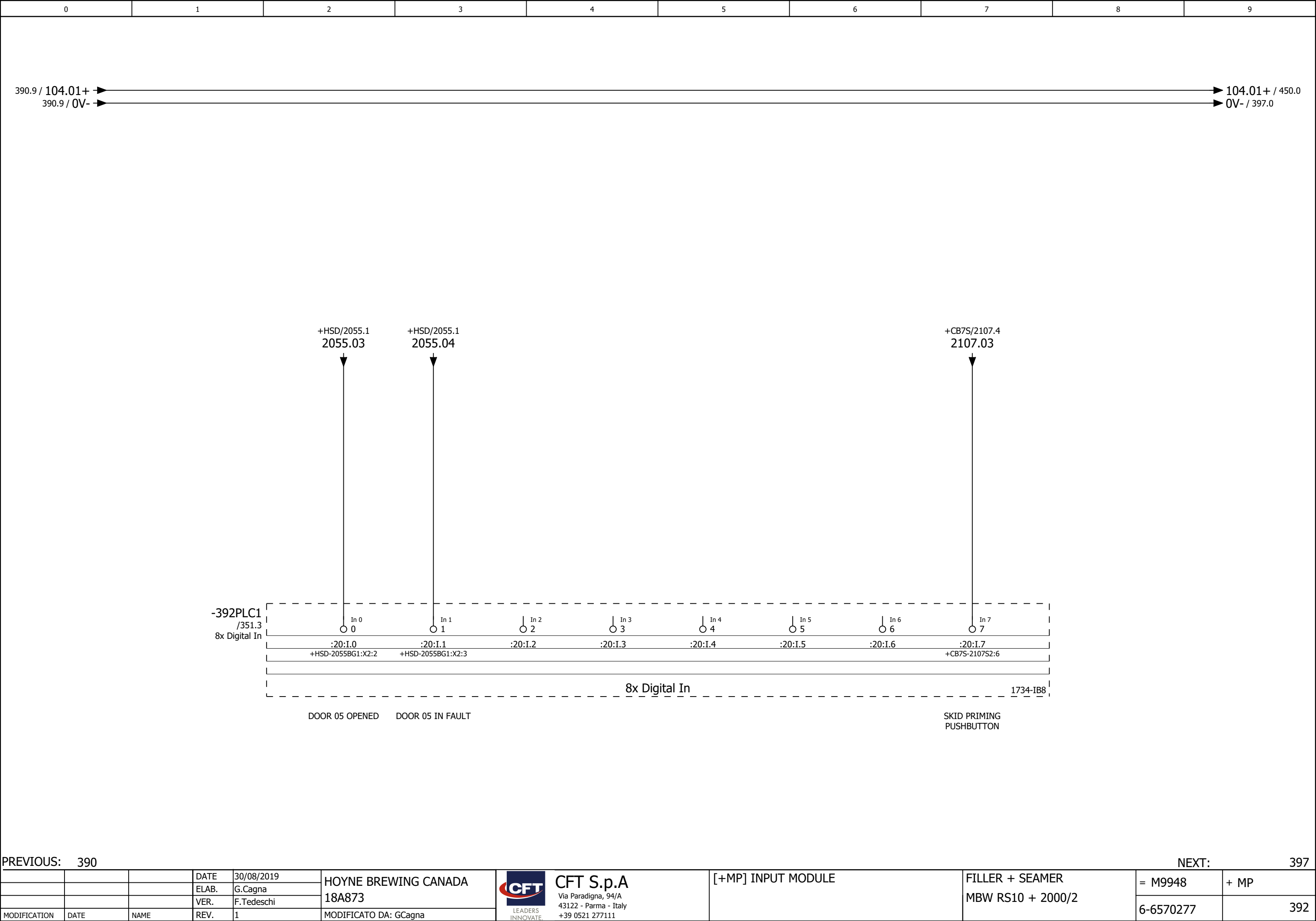






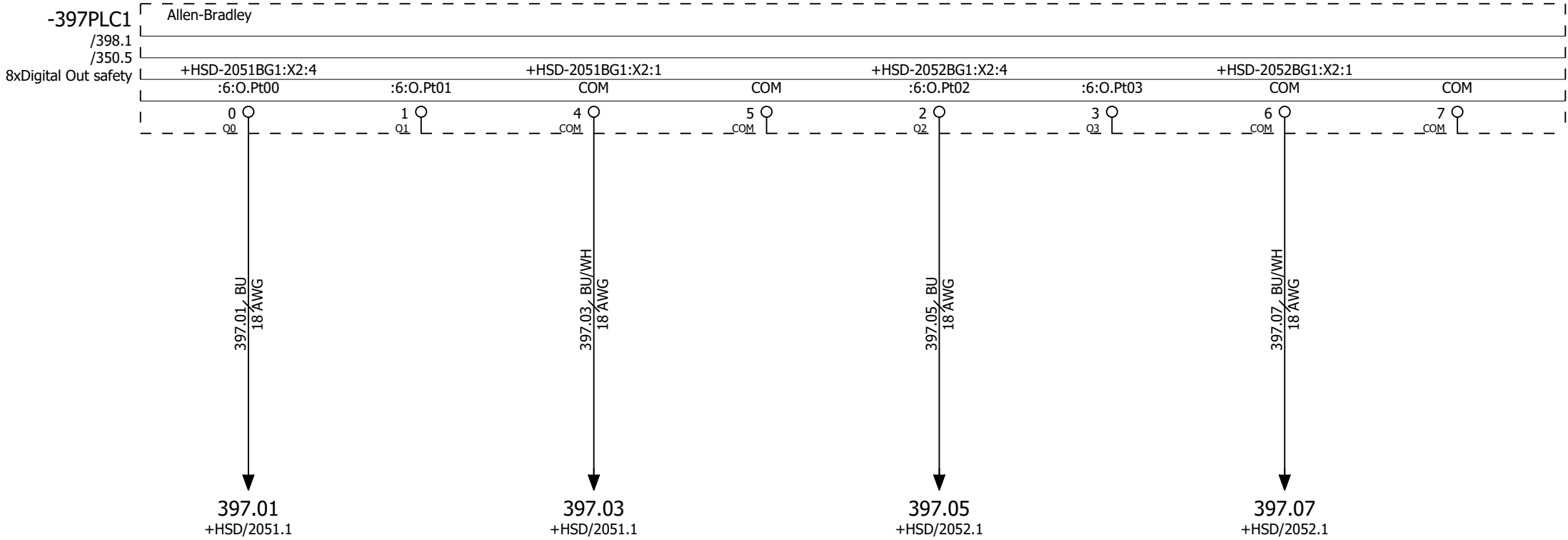






BLUE ZONE: CARTERS
UNLOCK CMD

GREEN ZONE:
CARTERS UNLOCK CMD

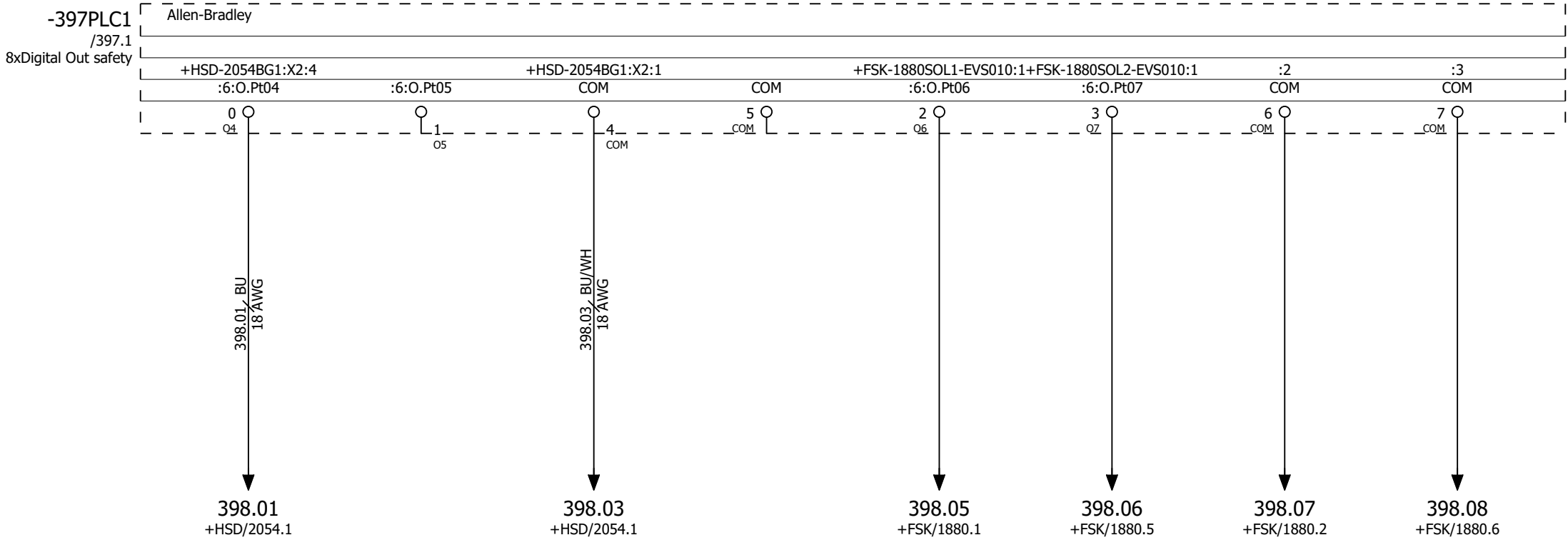


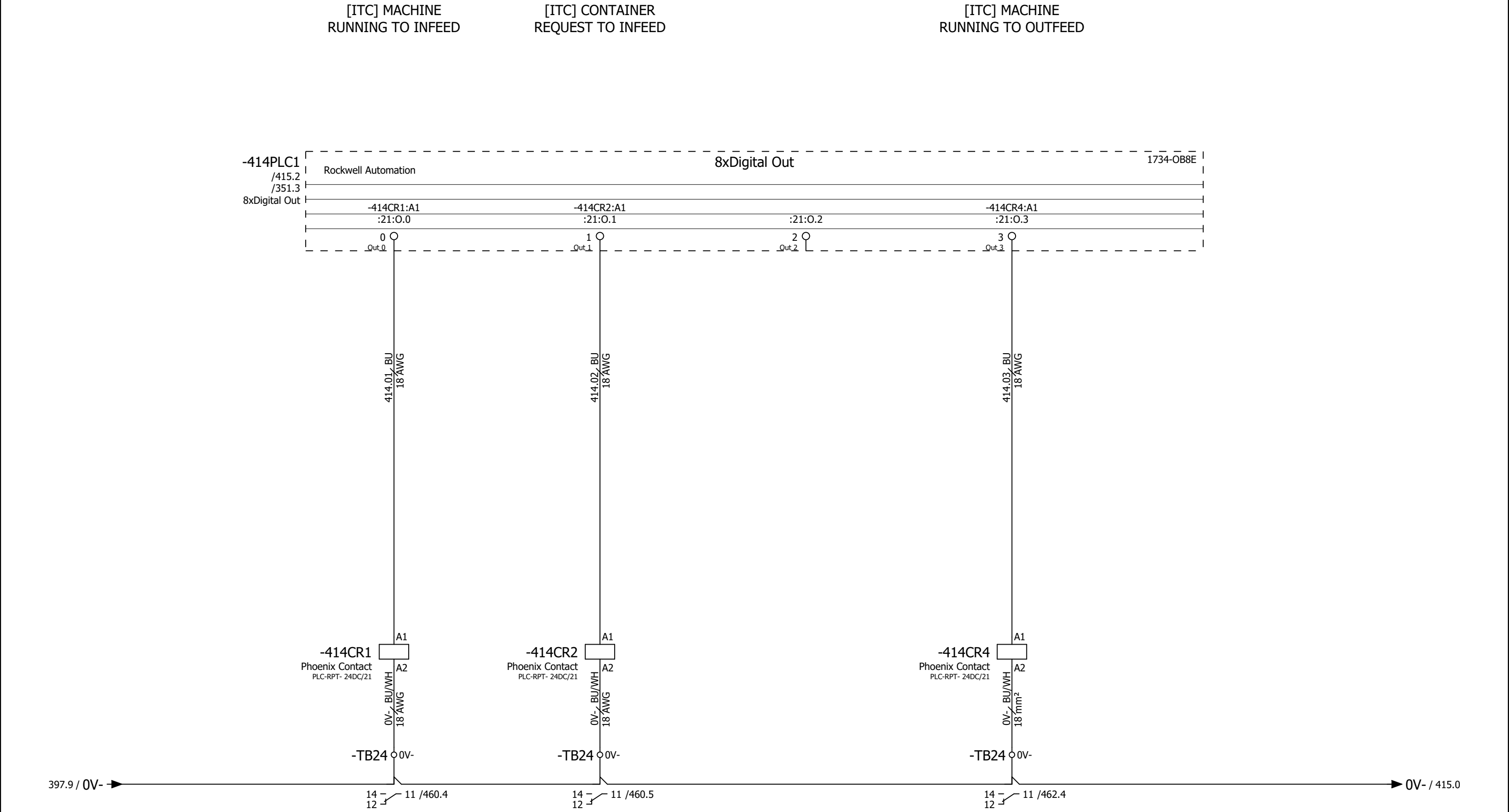
392.9 / 0V- ➡

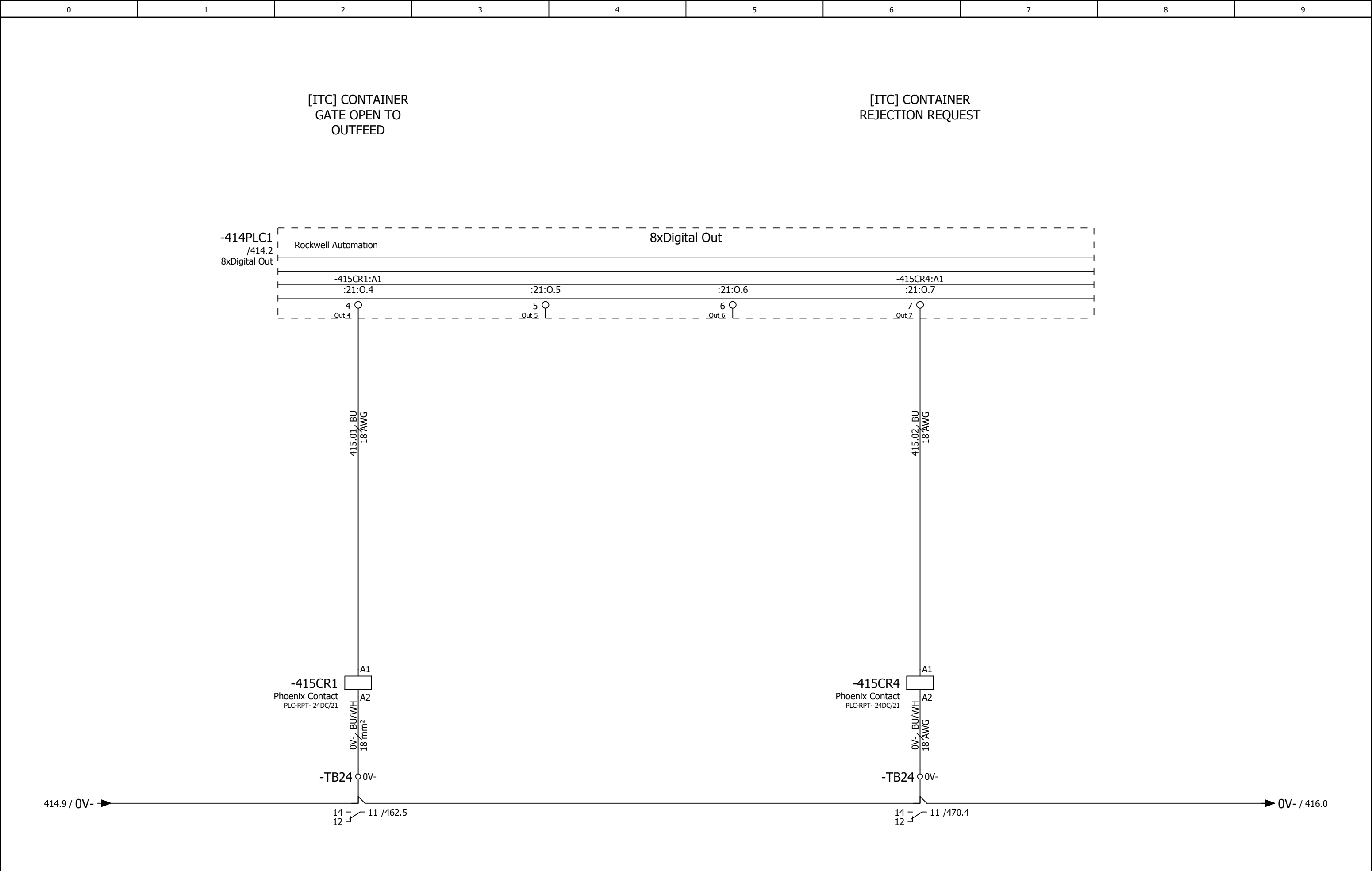
➡ 0V- / 414.0

YELLOW ZONE:
CARTERS UNLOCK CMD

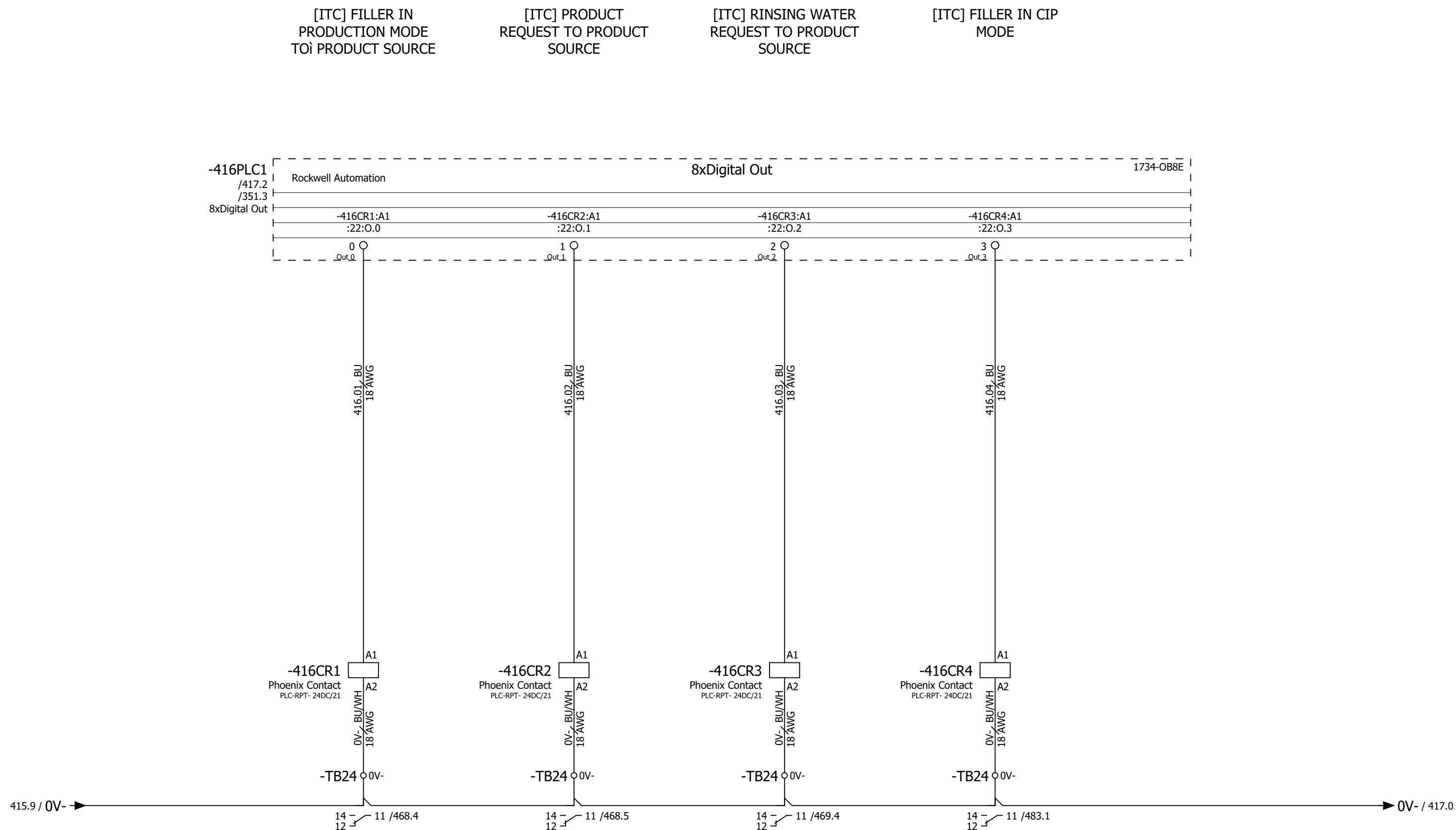
[EVS010] MAIN AIR SAFETY VALVE
[EVS010] MAIN AIR SAFETY VALVE





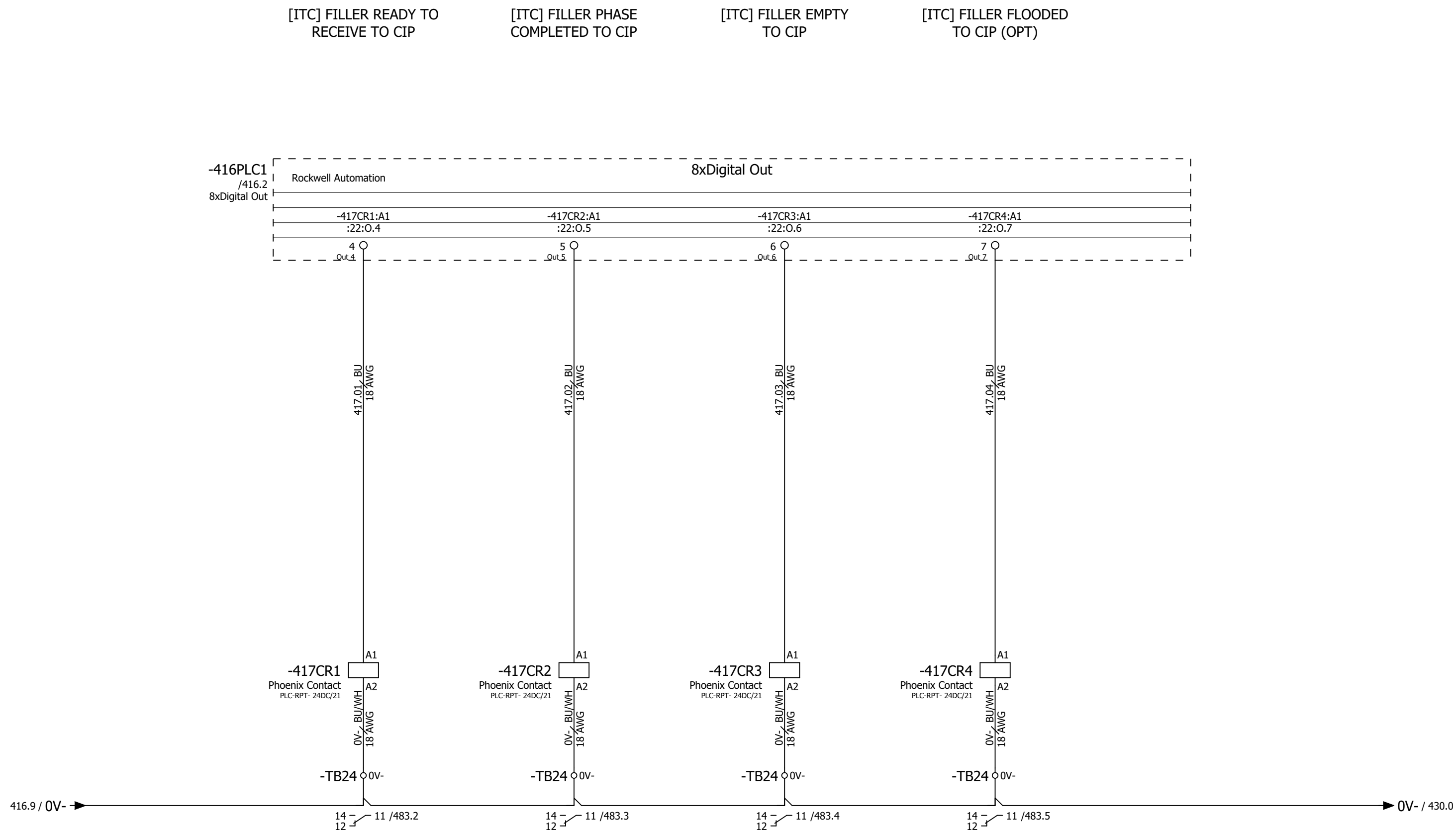


0	1	2	3	4	5	6	7	8	9
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PREVIOUS: 415					NEXT: 417				
			DATE	20/11/2019	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] OUTPUT MODULE	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna				6-6570277	416
			VER.	F.Tedeschi					
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				

0	1	2	3	4	5	6	7	8	9
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PREVIOUS: 416

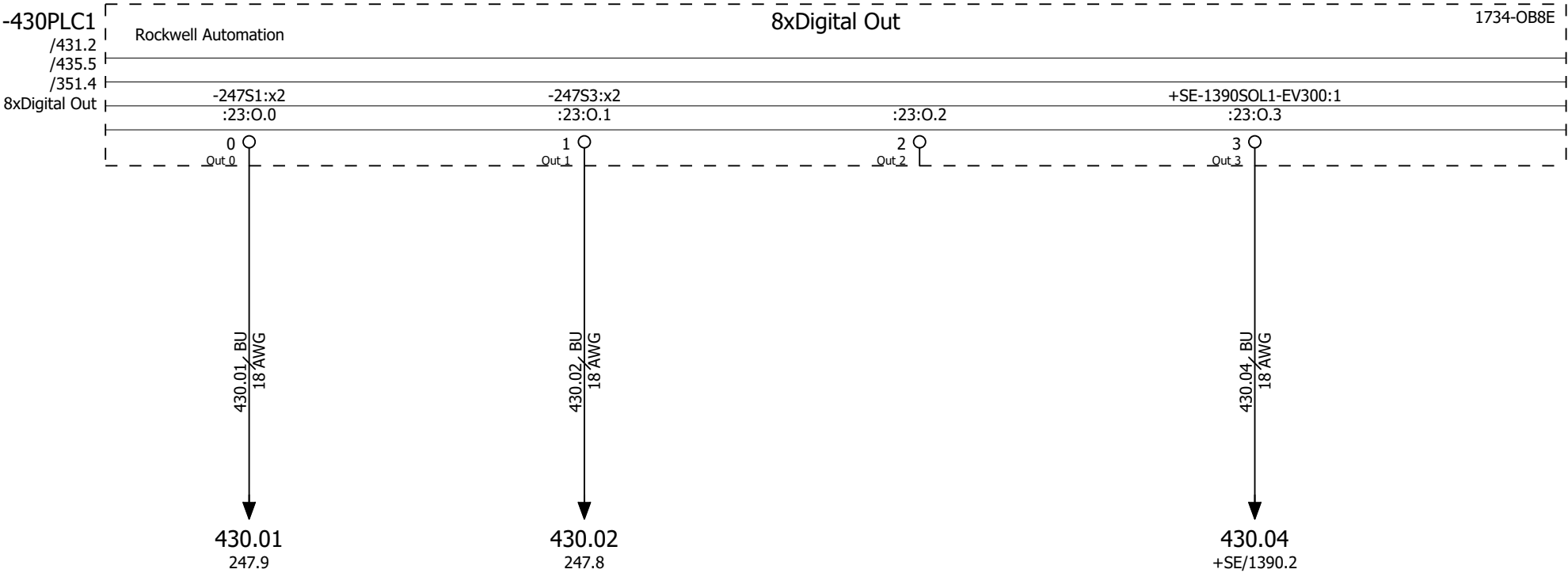
NEXT: 430

			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] OUTPUT MODULE	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV	1	MODIFICATO DA: GCagna				6-6570277	417

MACHINE START
BUTTON

ALARM RESET BUTTON

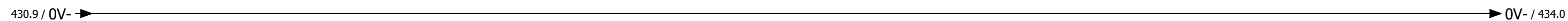
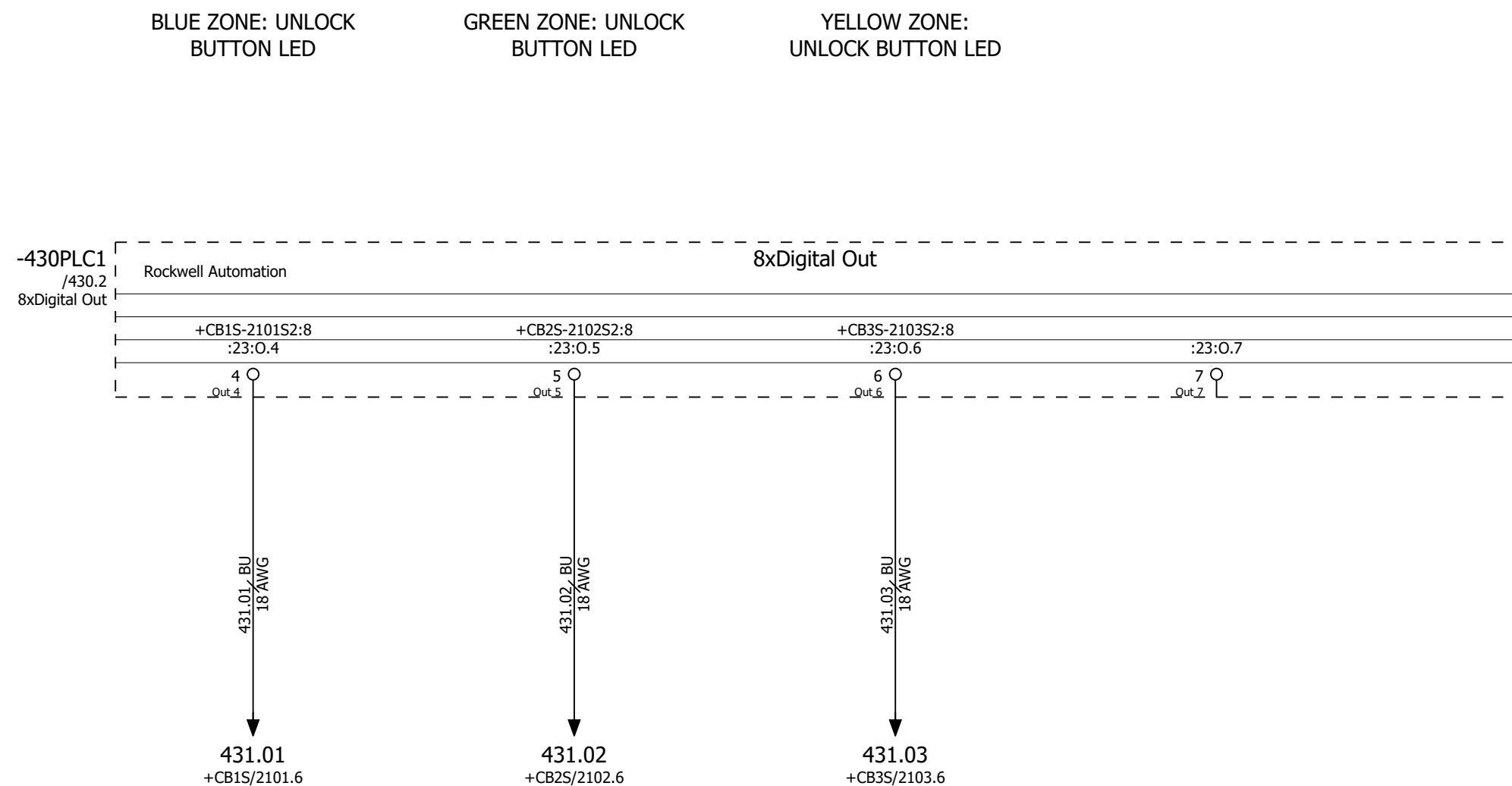
[EV300] SEAMER LIDS
RELEASE VALVE: CMD



417.9 / 0V-

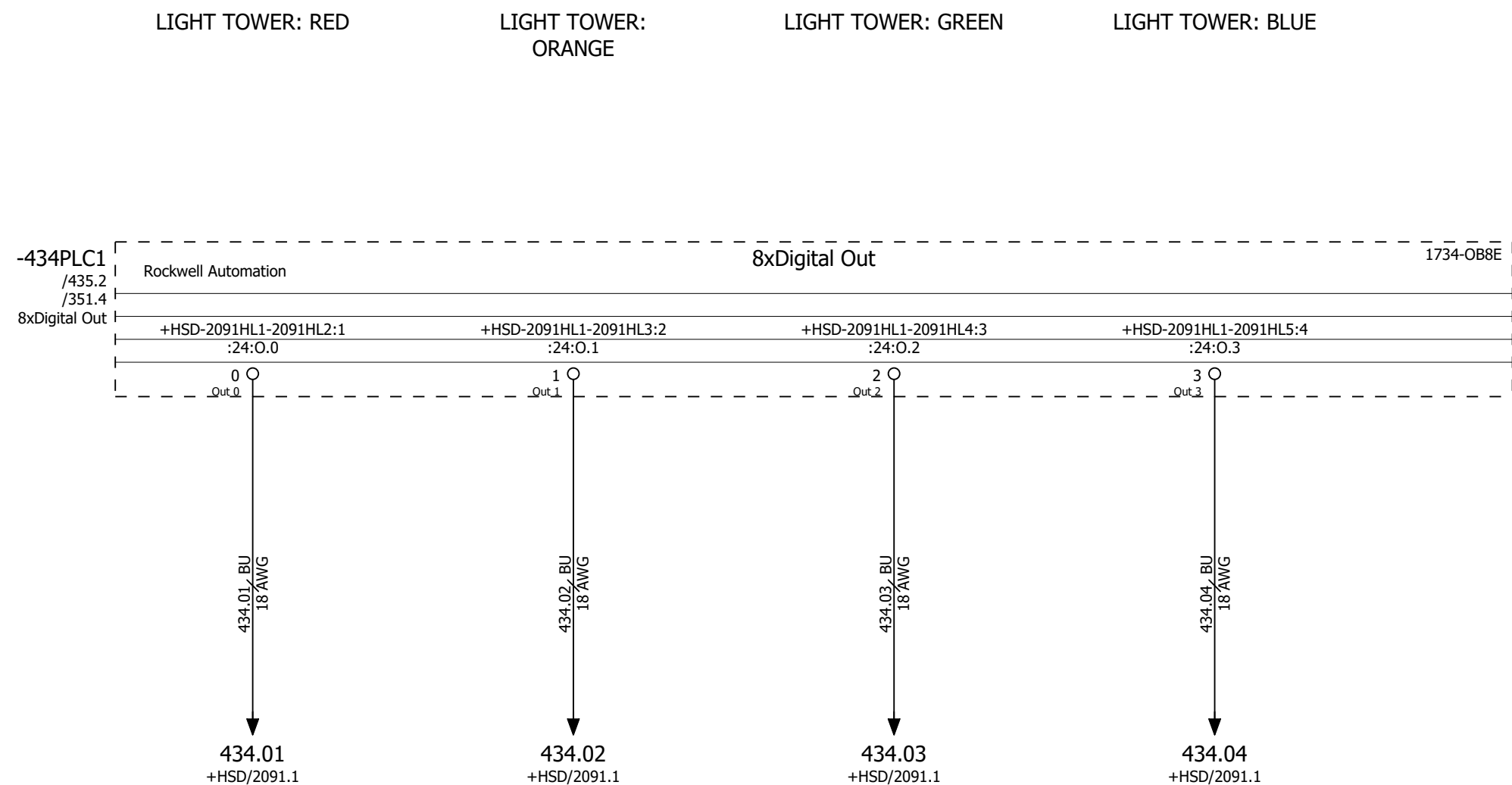
0V- / 431.0

0	1	2	3	4	5	6	7	8	9
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PREVIOUS: 430					NEXT: 434				
			DATE	30/08/2019	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] OUTPUT MODULE	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna				6-6570277	431
			VER.	F.Tedeschi					
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				

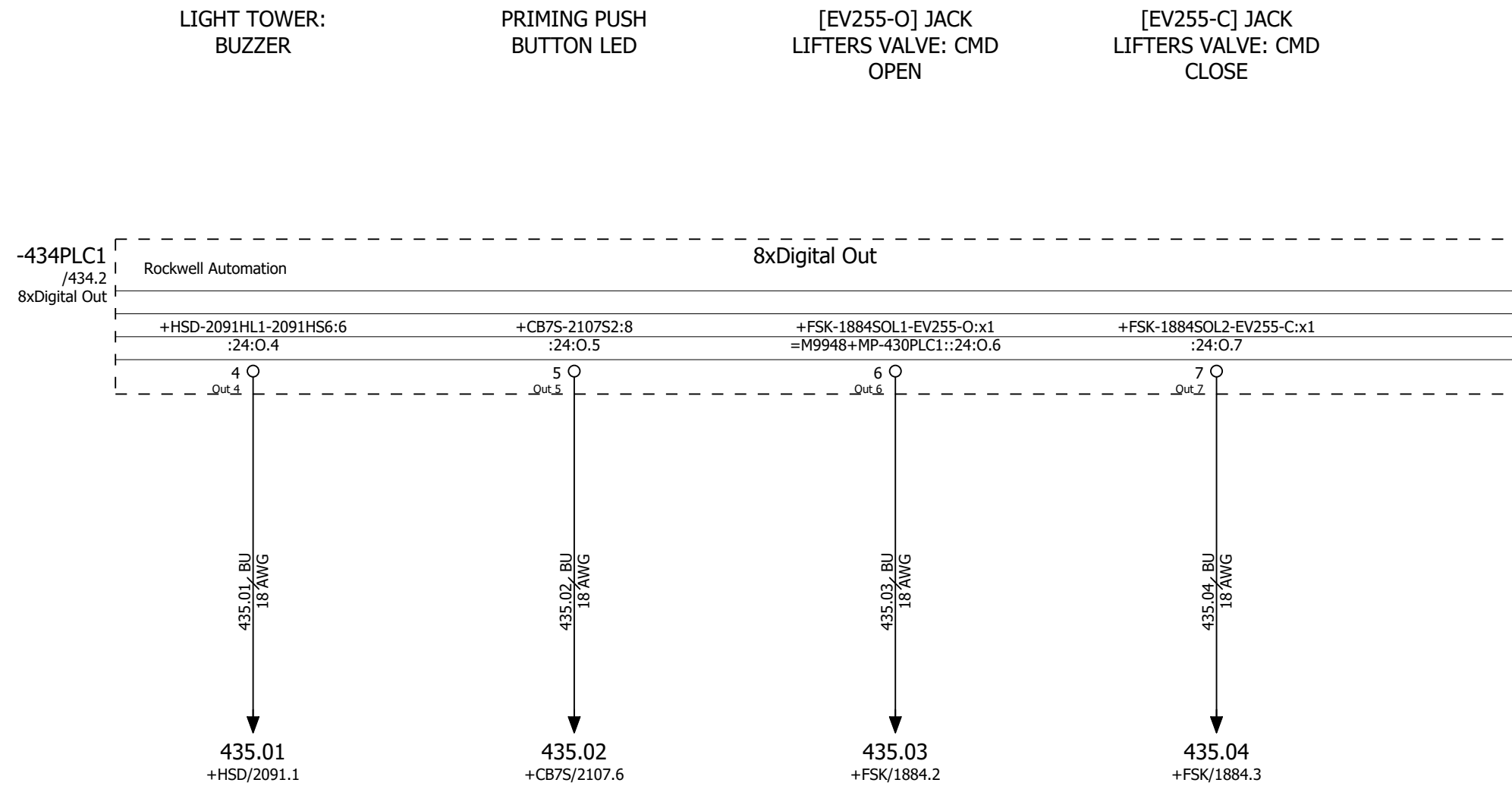
0	1	2	3	4	5	6	7	8	9
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431.9 / 0V- ➡ 0V- / 435.0

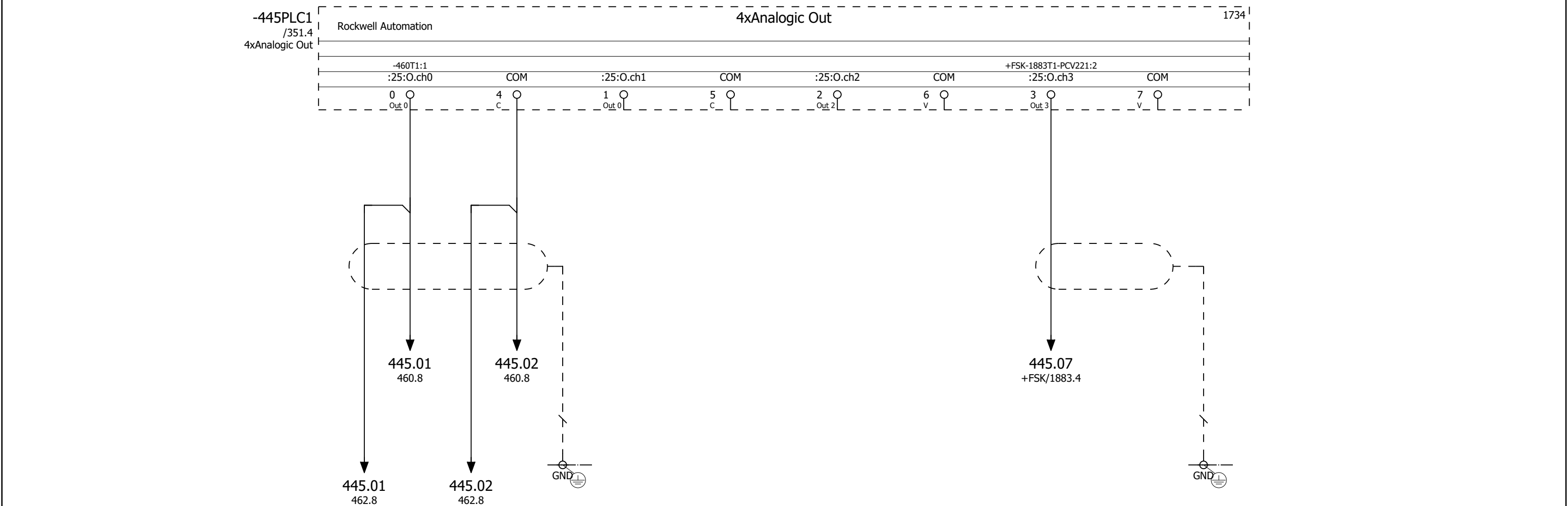
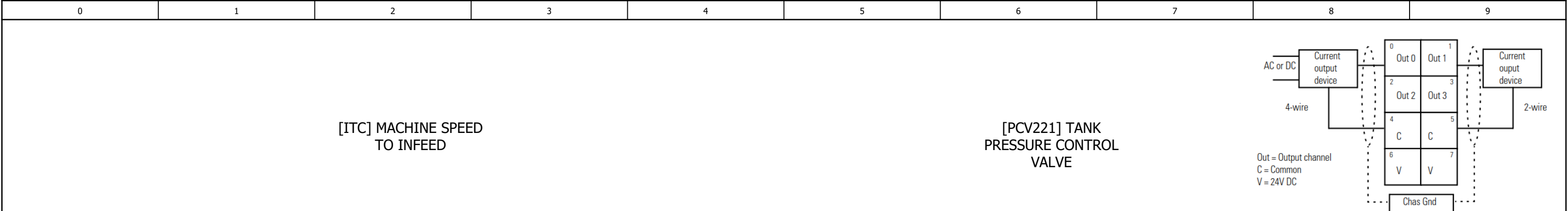
PREVIOUS: 431						NEXT: 435				
			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] OUTPUT MODULE	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	434

0	1	2	3	4	5	6	7	8	9
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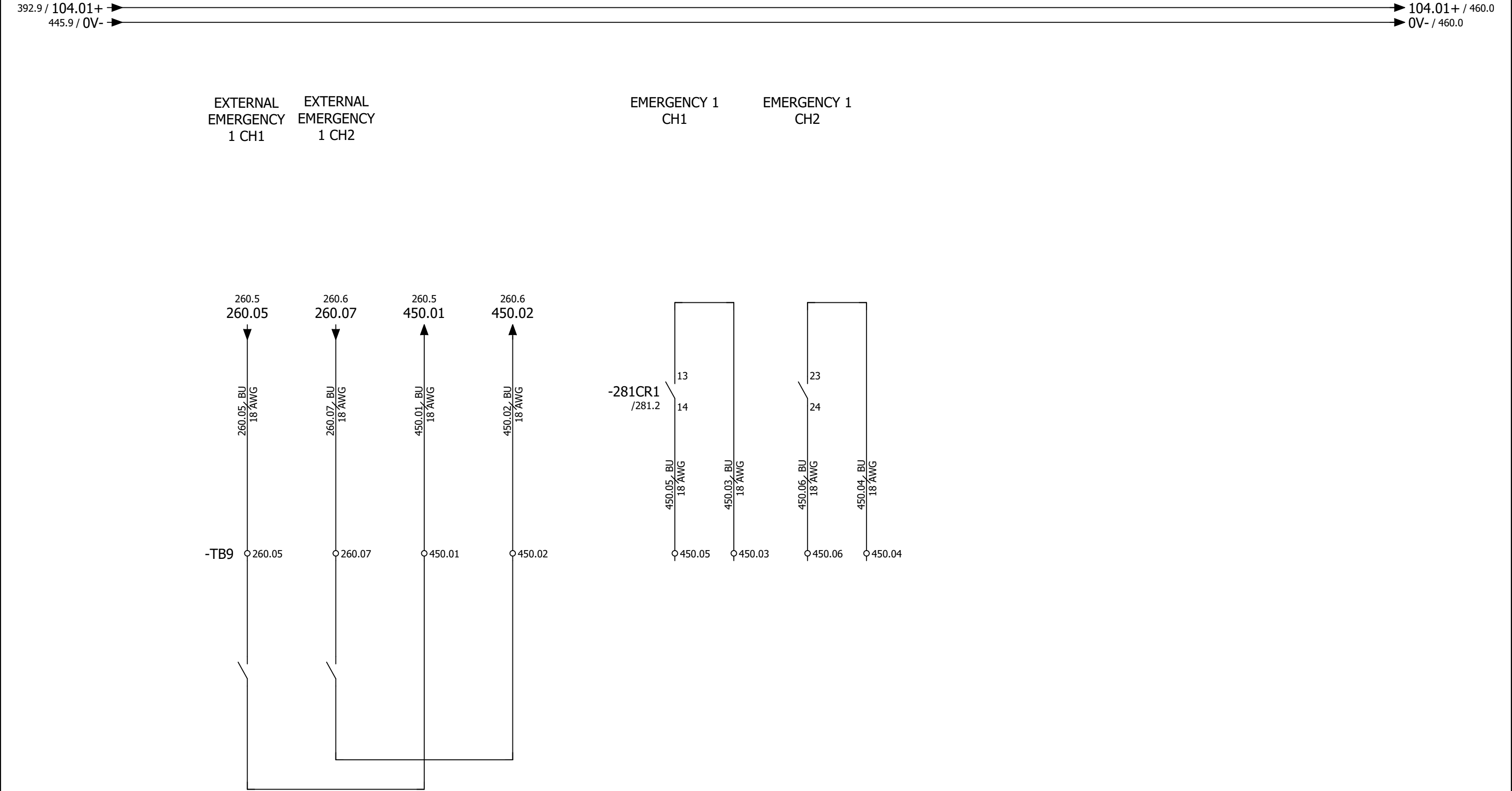
434.9 / 0V- 0V- / 445.0

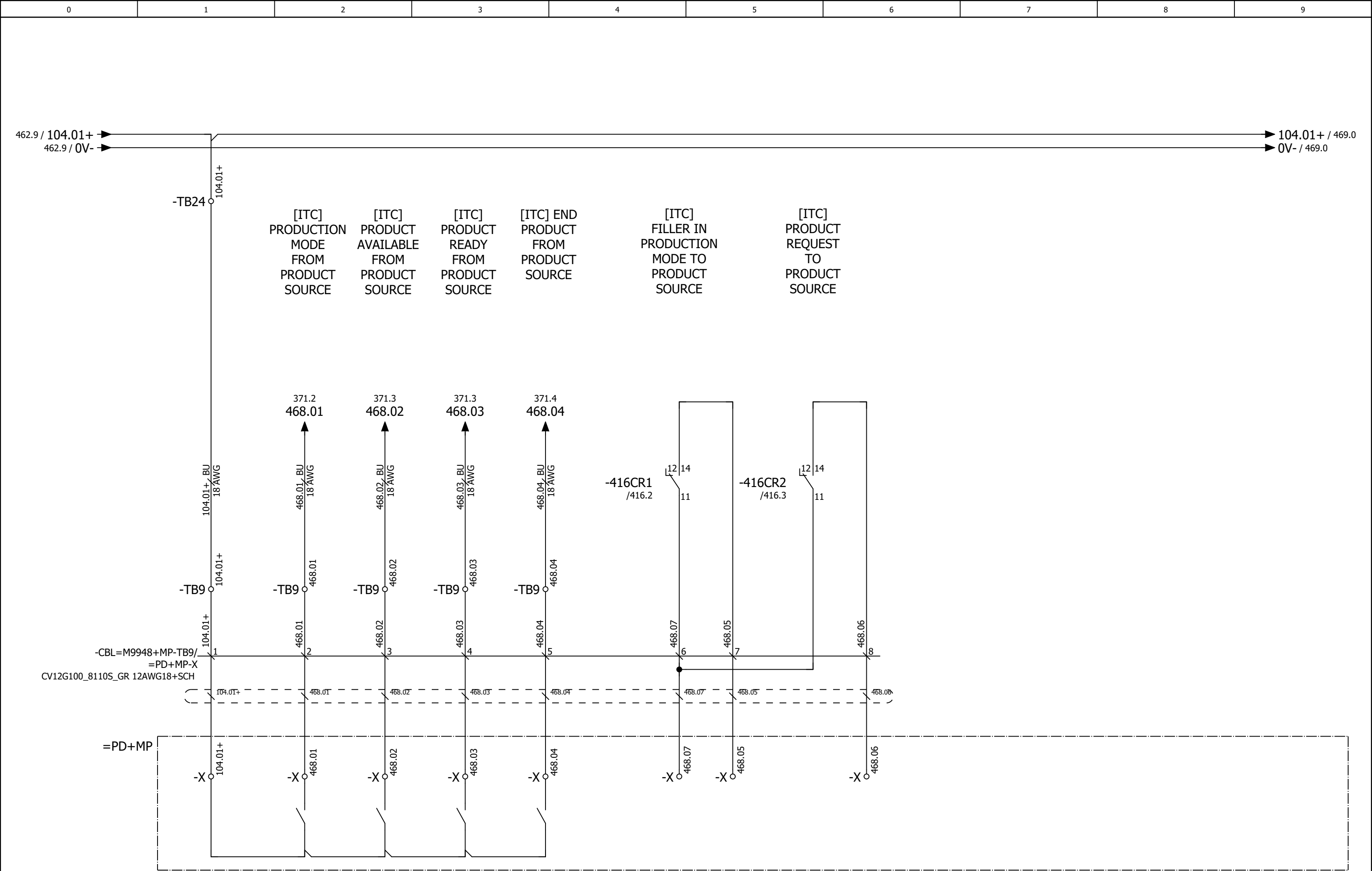
PREVIOUS: 434										NEXT: 445	
			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111 LEADERS INNOVATE.	[+MP] OUTPUT MODULE	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP	
			ELAB.	G.Cagna							
			VER.	F.Tedeschi							
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna						6-6570277

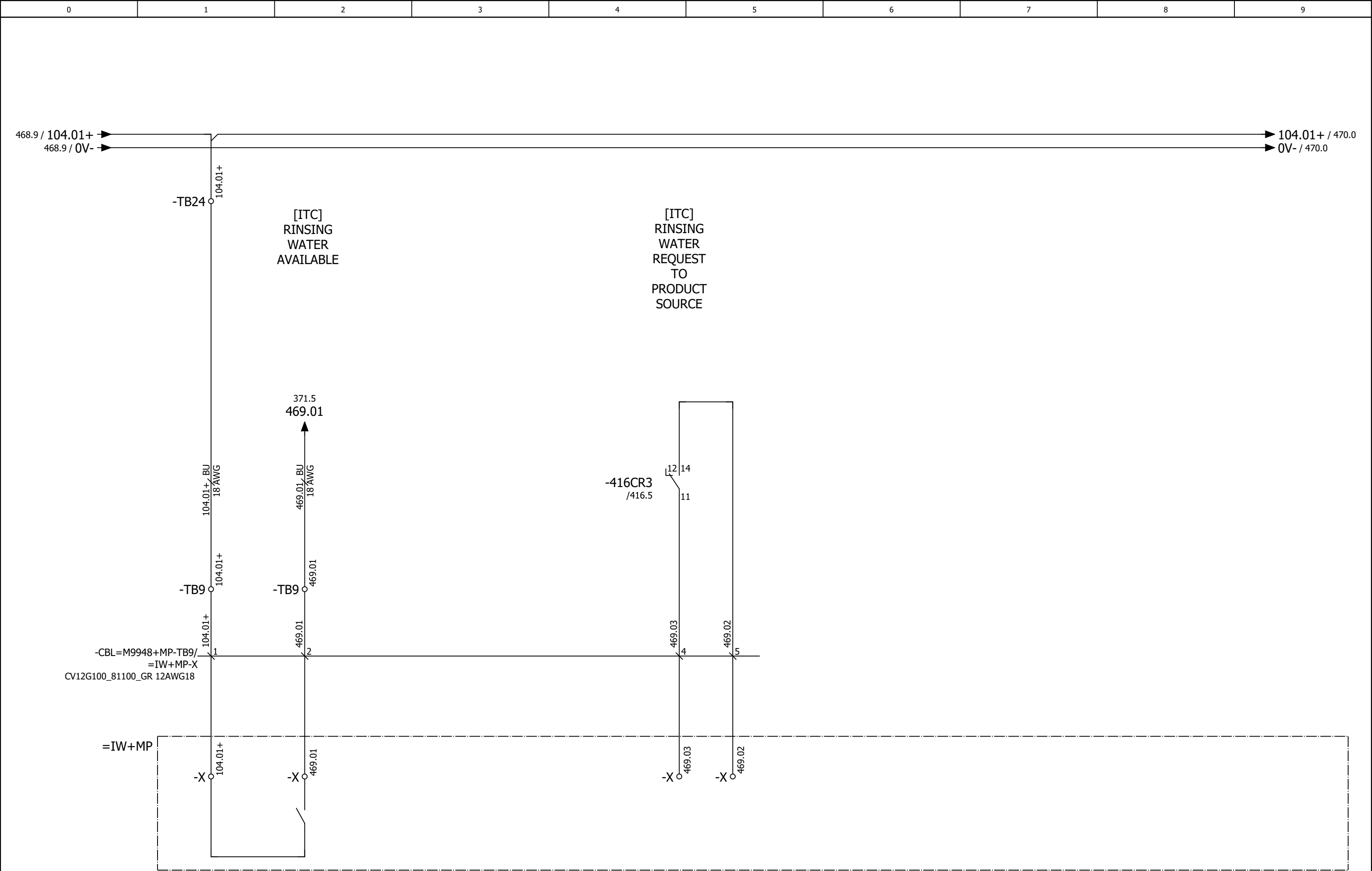


435.9 / 0V- 0V- / 450.0

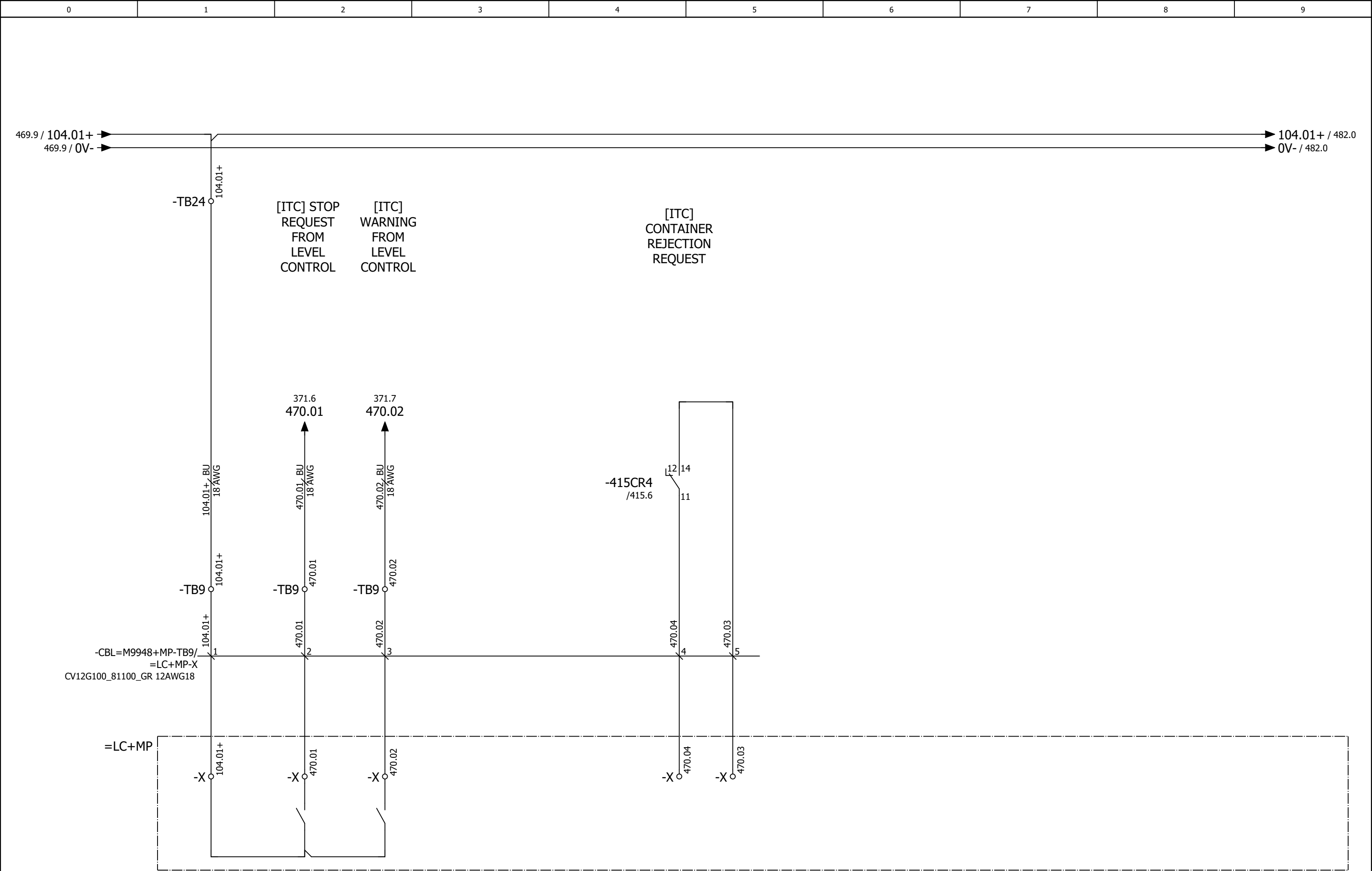
PREVIOUS: 435										NEXT: 450				
			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+MP] ANALOG OUTPUT MODULE	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP				
			ELAB.	G.Cagna										
			VER.	F.Tedeschi										
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	445				



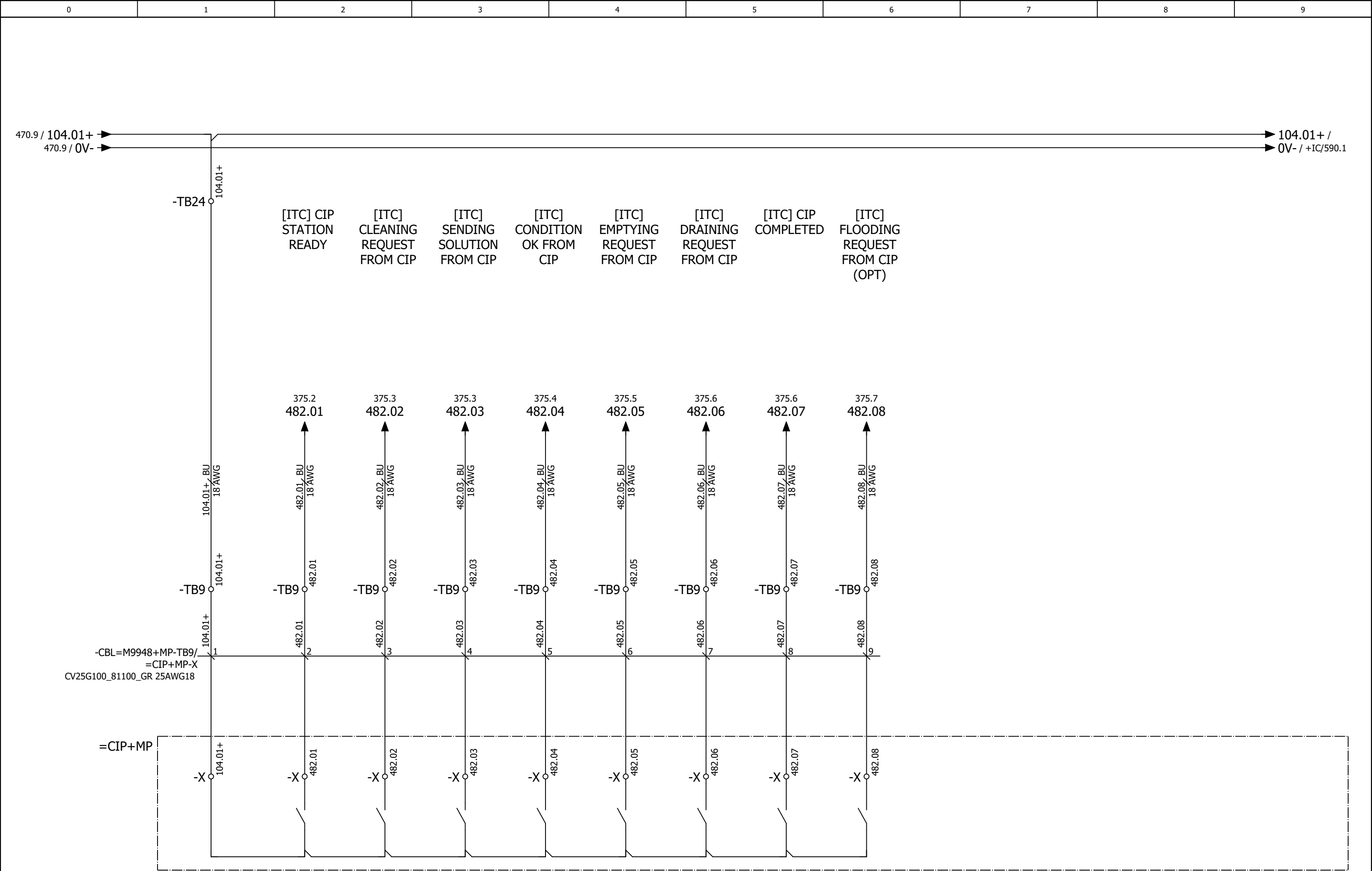




PREVIOUS: 468					NEXT: 470					
			DATE	13/12/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[ITC] H2O SUPPLY	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	469



PREVIOUS: 469					NEXT: 482					
			DATE	13/12/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[ITC] LEVEL CONTROL	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	470



PREVIOUS: 470					NEXT: 483						
			DATE	13/12/2019	HOYNE BREWING CANADA 18A873	 LEADERS INNOVATE	CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[ITC] CIP STATION	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ MP
			ELAB.	G.Cagna							
			VER.	F.Tedeschi							
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna						

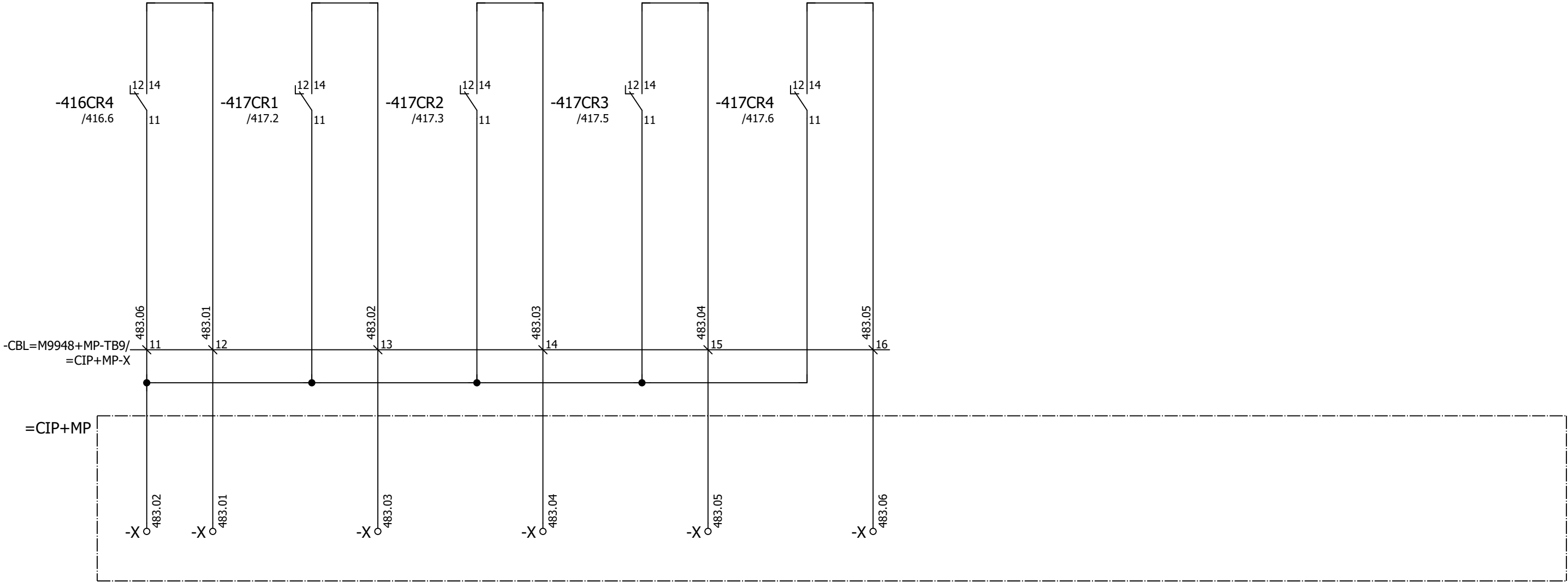
[ITC]
FILLER IN
CIP MODE

[ITC]
FILLER
READY TO
RECEIVE
TO CIP

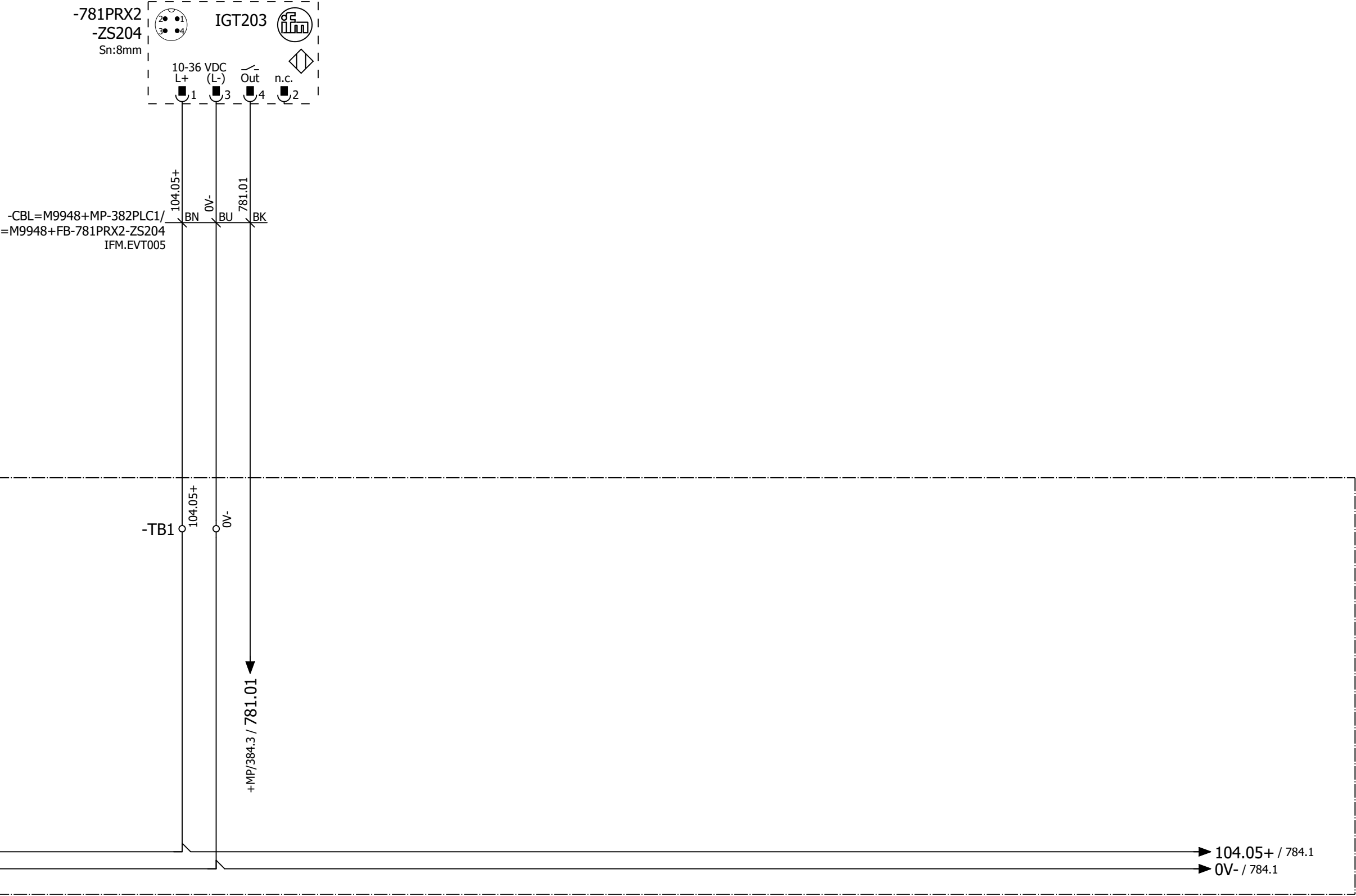
[ITC]
FILLER
PHASE
COMPLETED
TO CIP

[ITC]
FILLER
EMPTY TO
CIP

[ITC]
FILLER
FLOODED
TO CIP
(OPT)

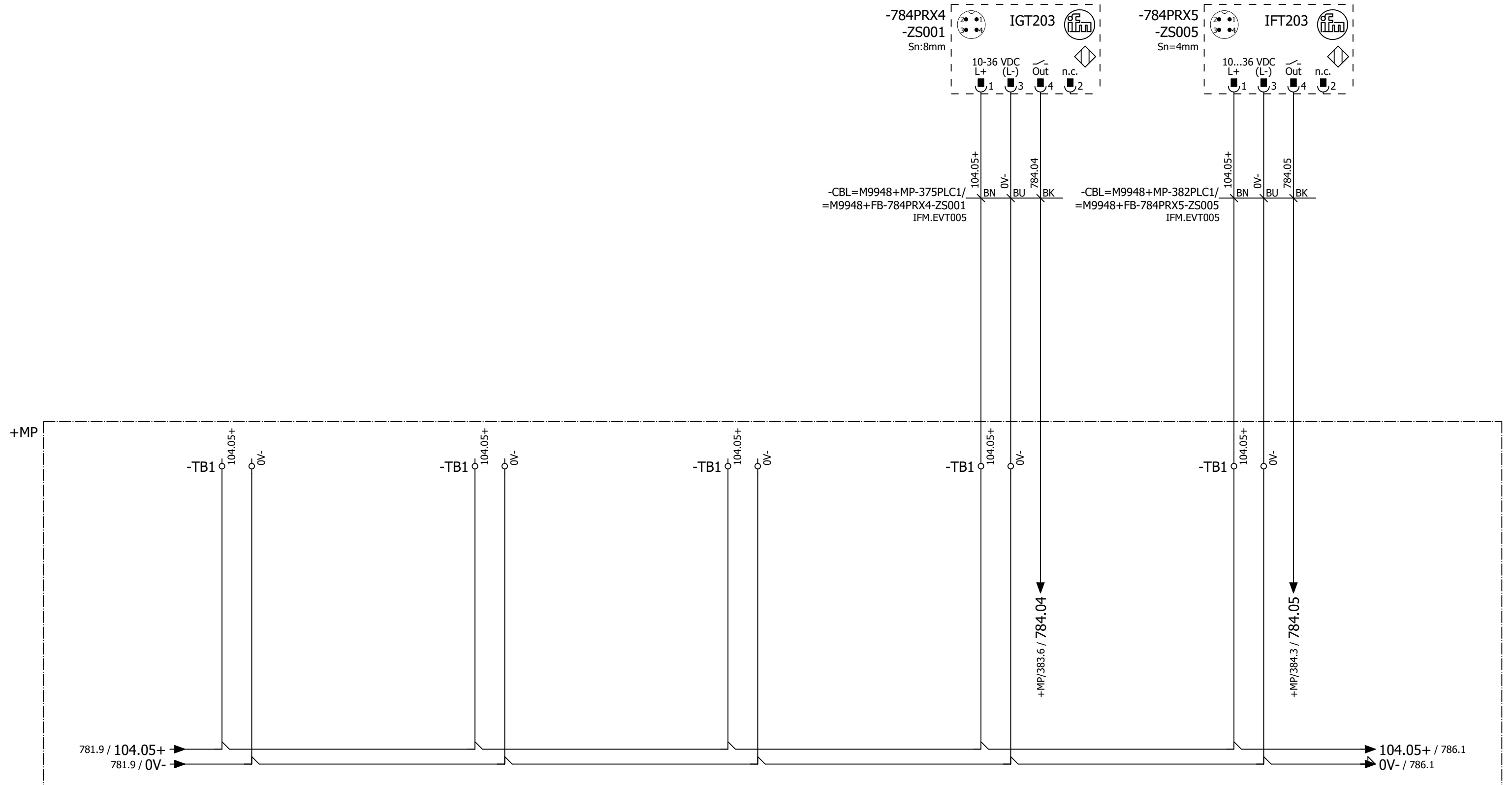


[ZS204] FILLER HEAD NR.1
SENSOR



[ZS001] MACHINE CLOCK SENSOR

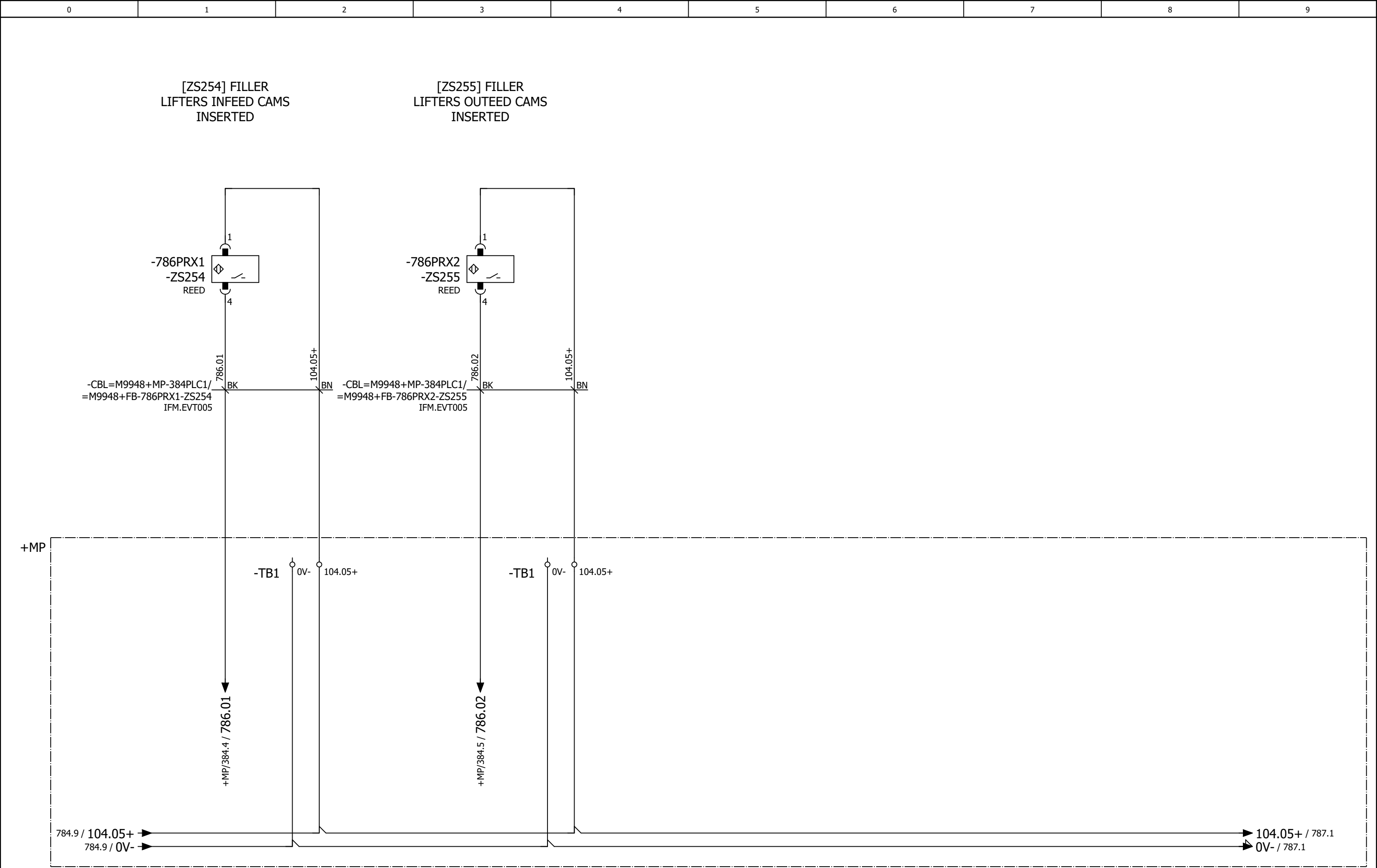
[ZS005] ENCODER PULSE SENSOR



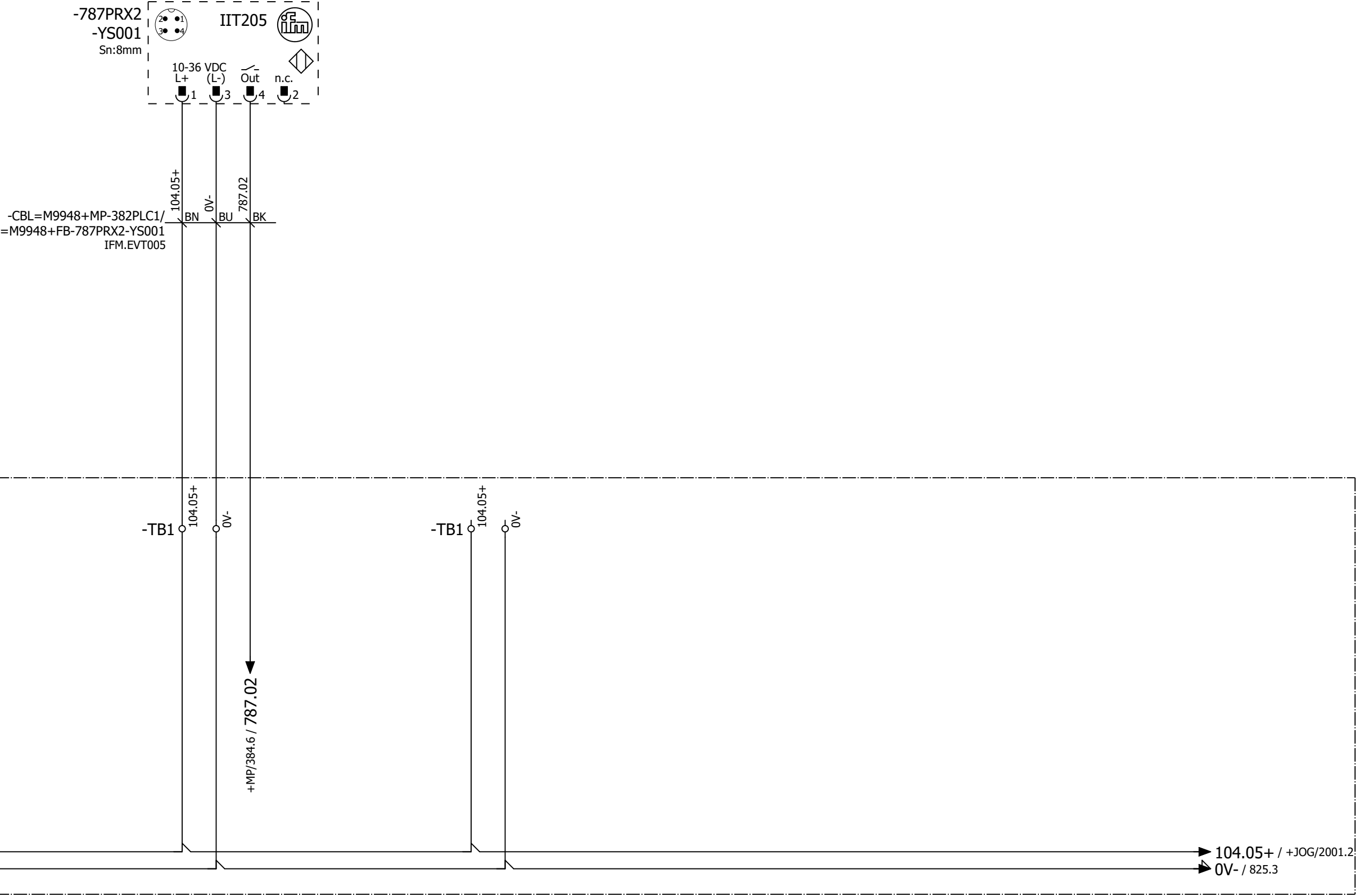
PREVIOUS: 781

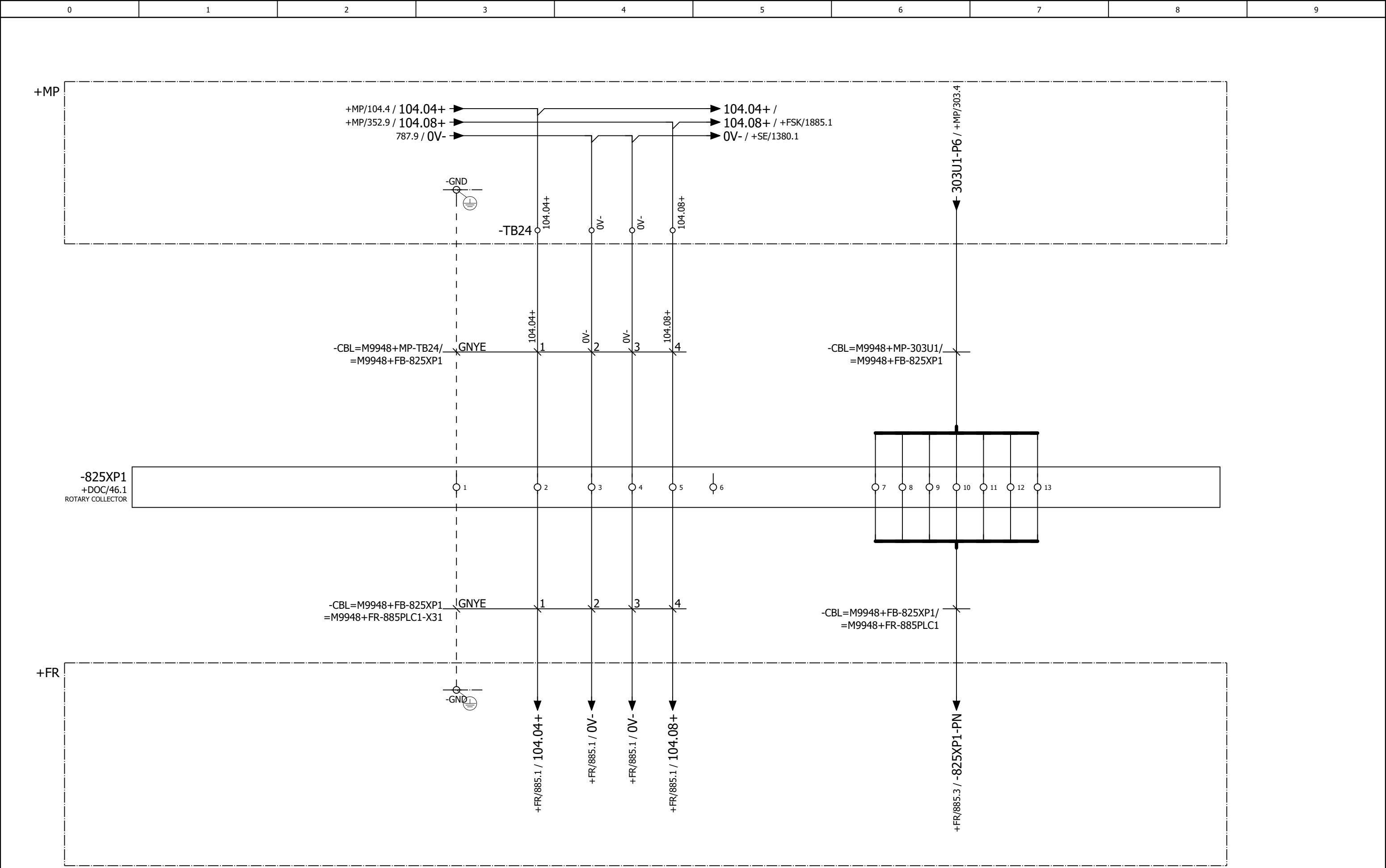
NEXT: 786

				DATE	30/08/2019	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+FB] FILLER BASE	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ FB
				ELAB.	G.Cagna					
				VER.	F.Tedeschi					
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	784

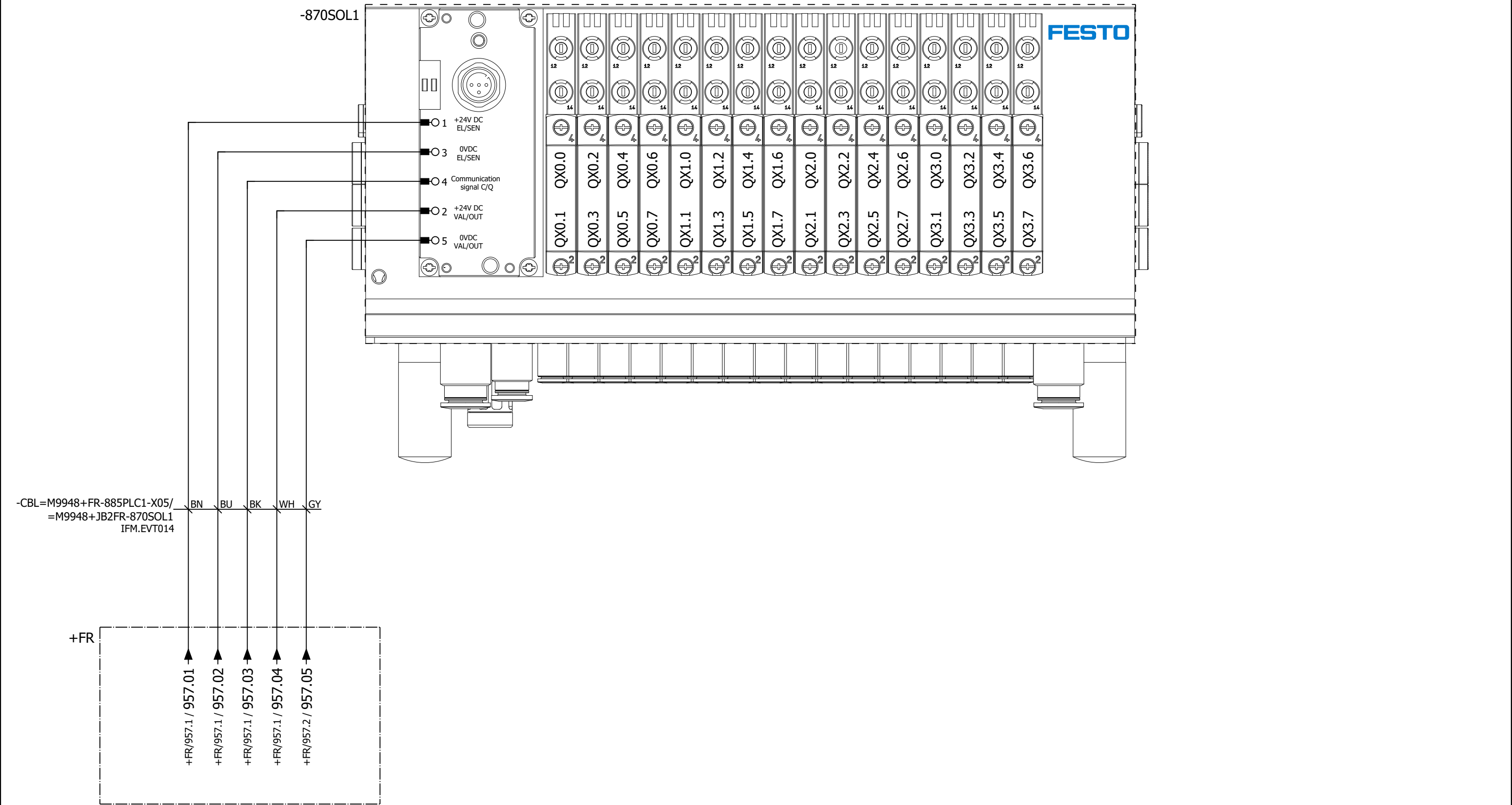


[YS001] CONTAINER PRESENCE AT
MACHINE INFEED SENSOR

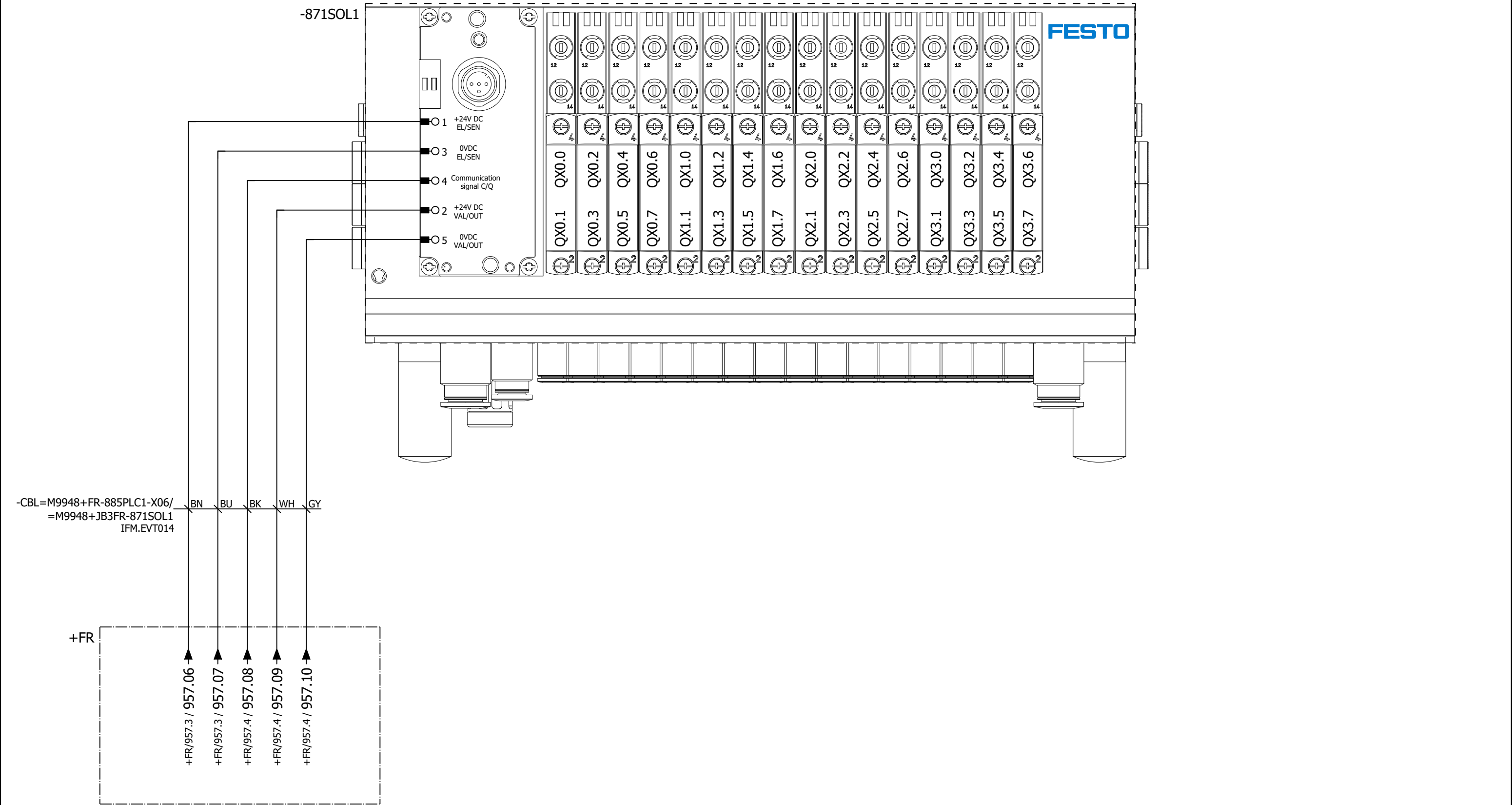


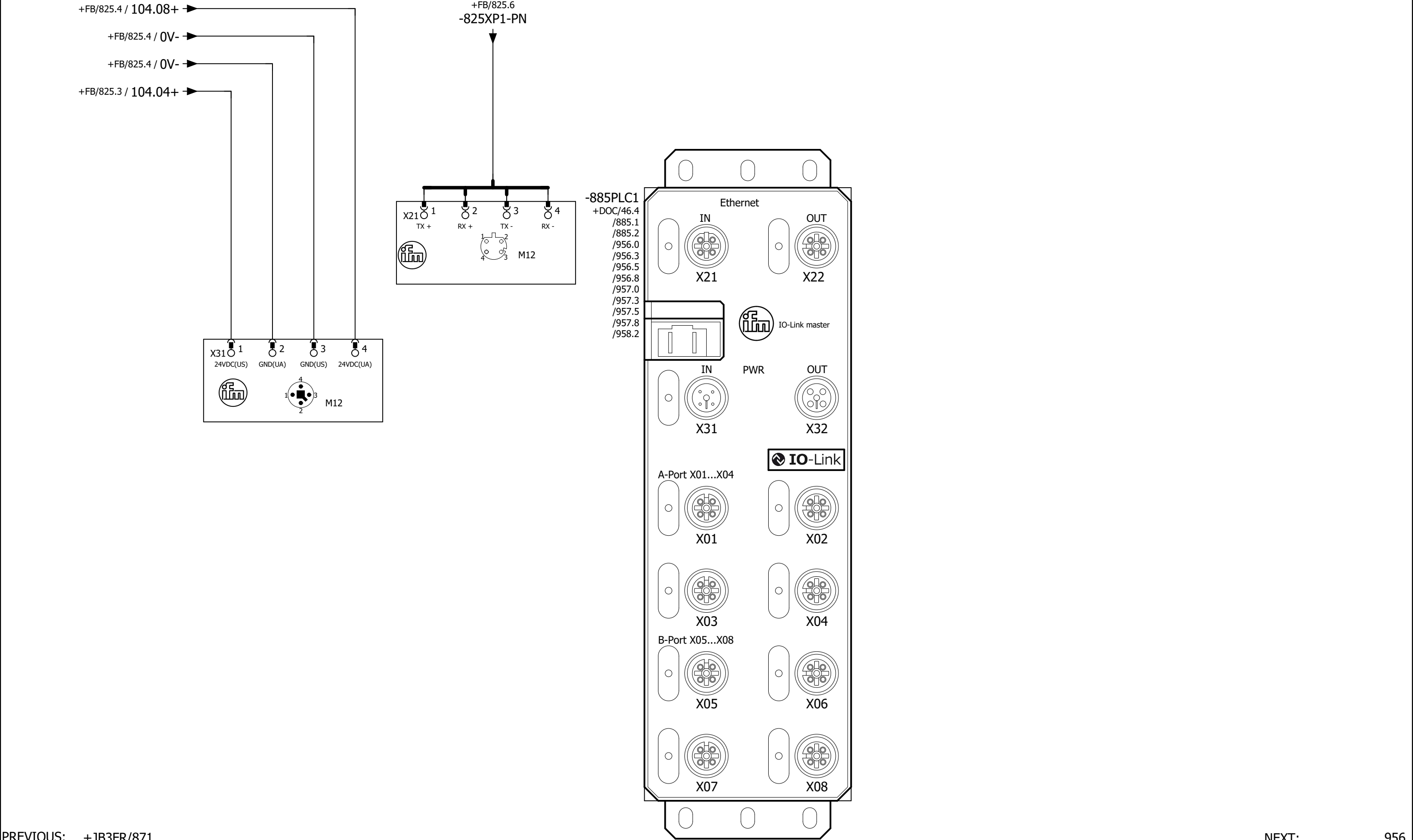


VALVE 1 FILLER ROTATION



VALVE 2 FILLER ROTATION

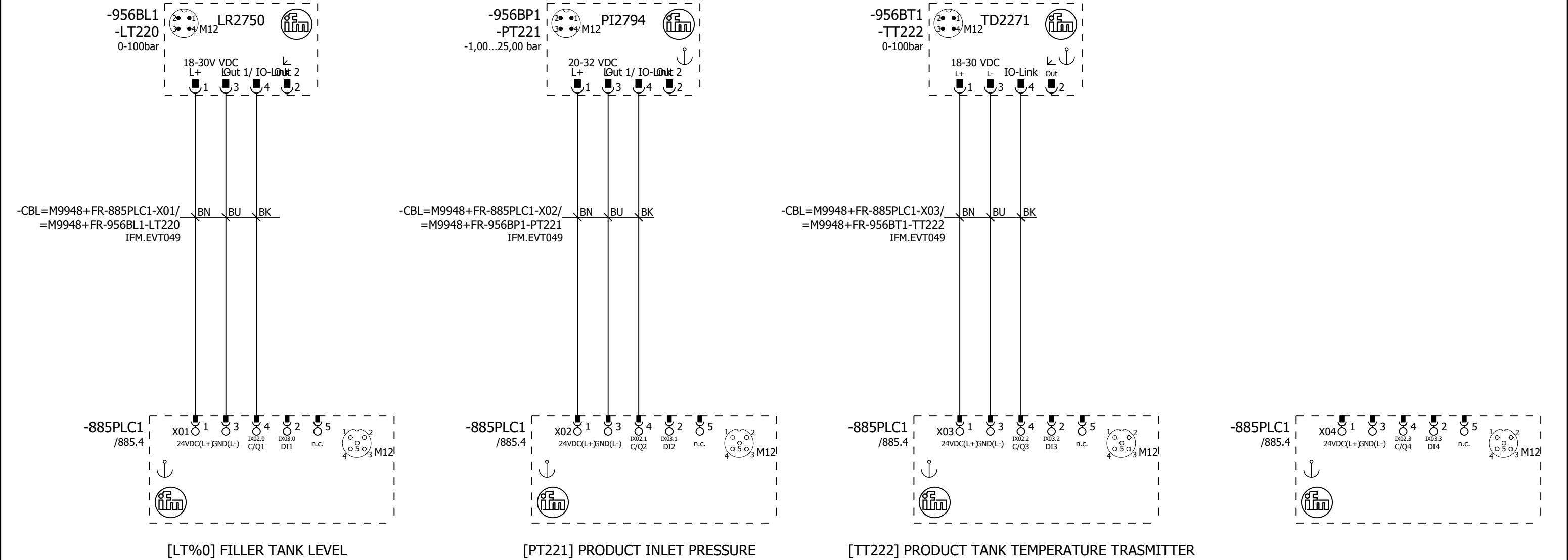


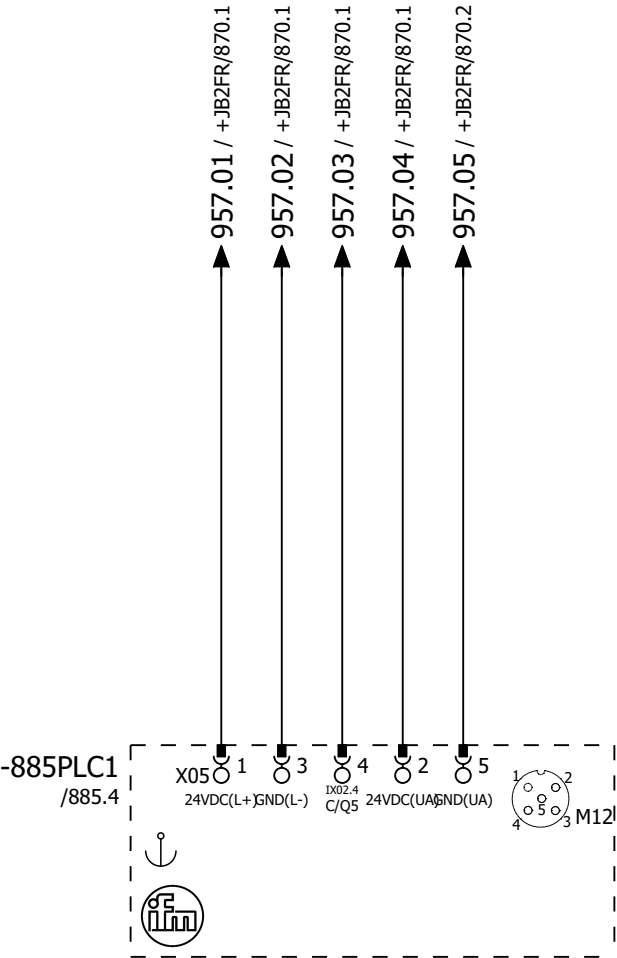


[LT%0] FILLER TANK LEVEL

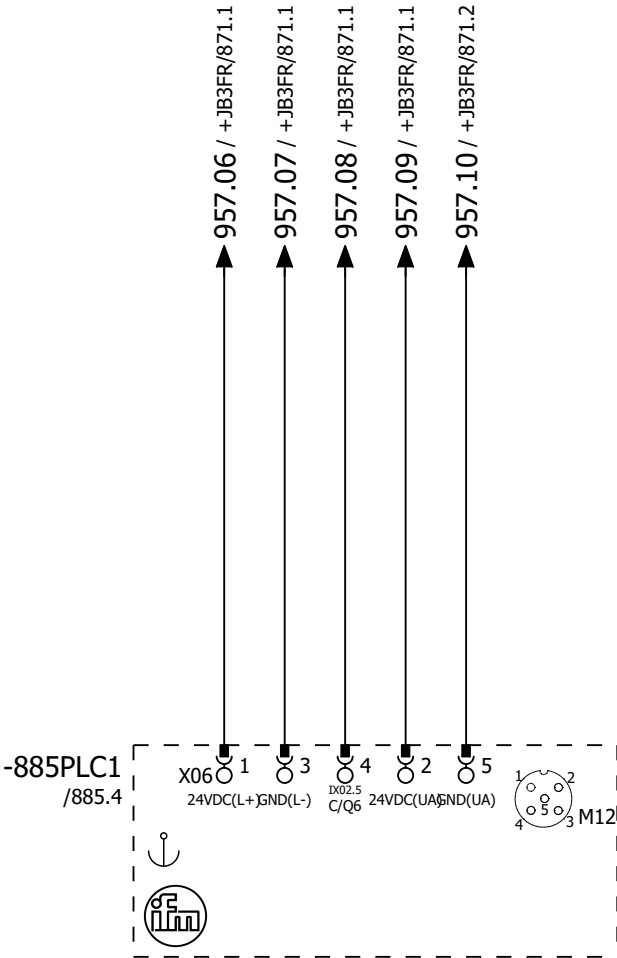
[PT221] PRODUCT INLET
PRESSURE

[TT222] PRODUCT TANK
TEMPERATURE TRASMITTER

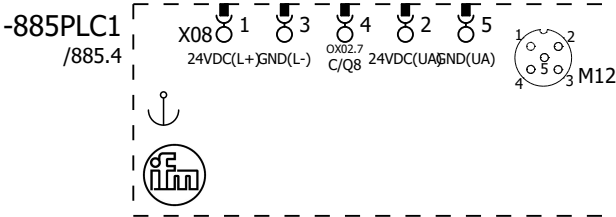
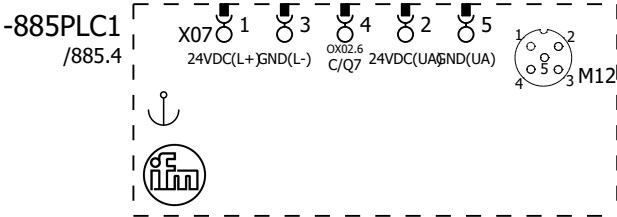


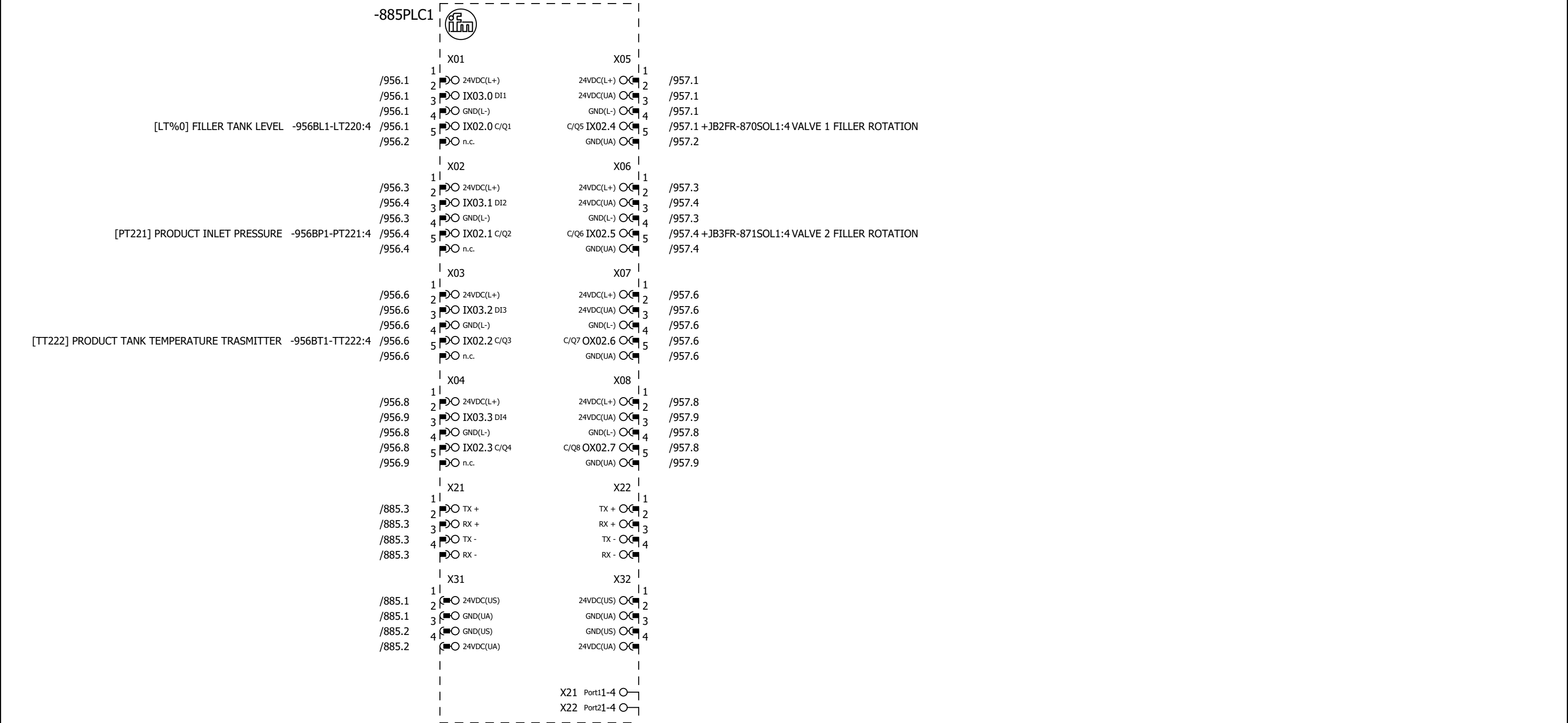


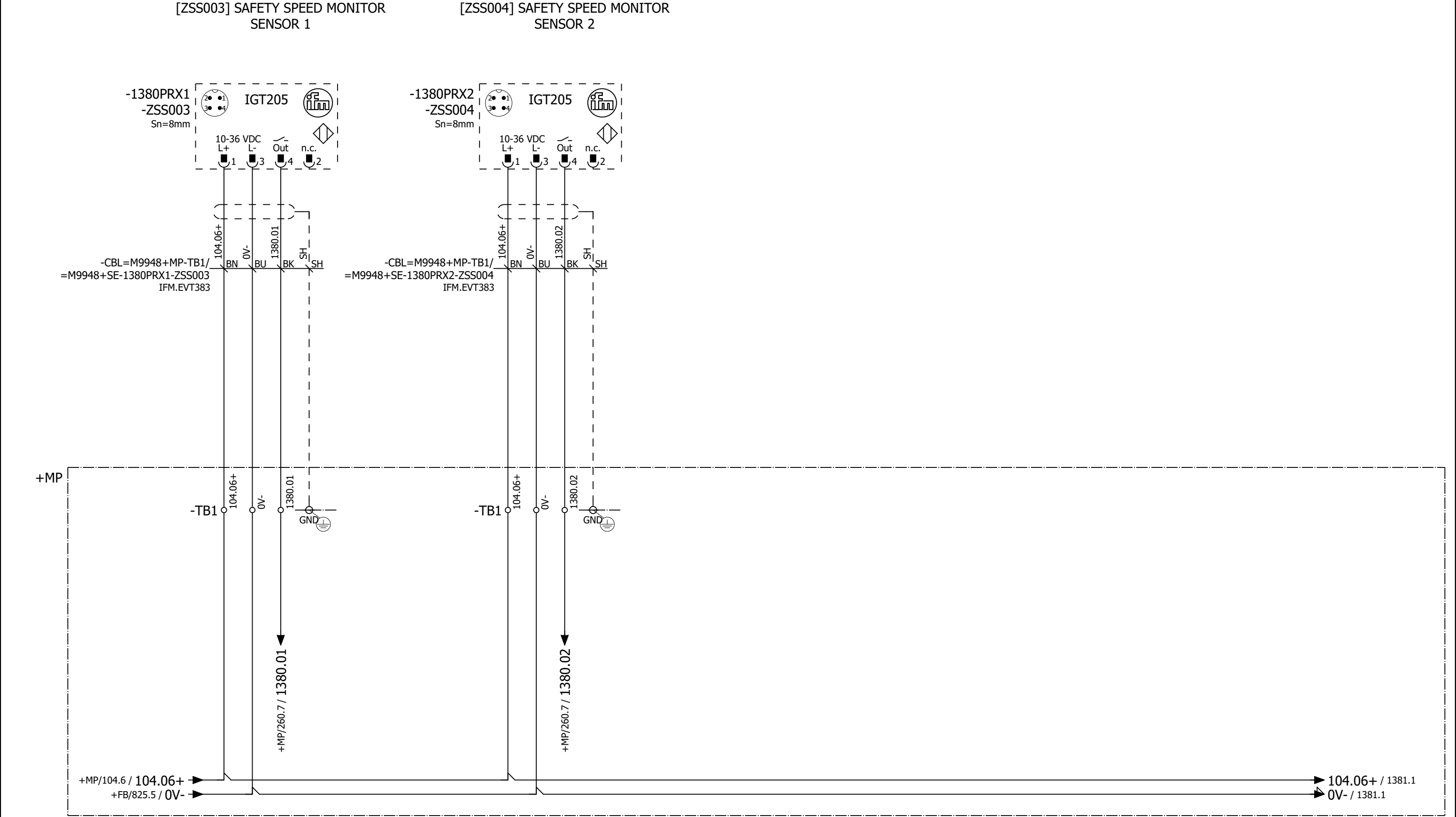
VALVE 1 FILLER ROTATION



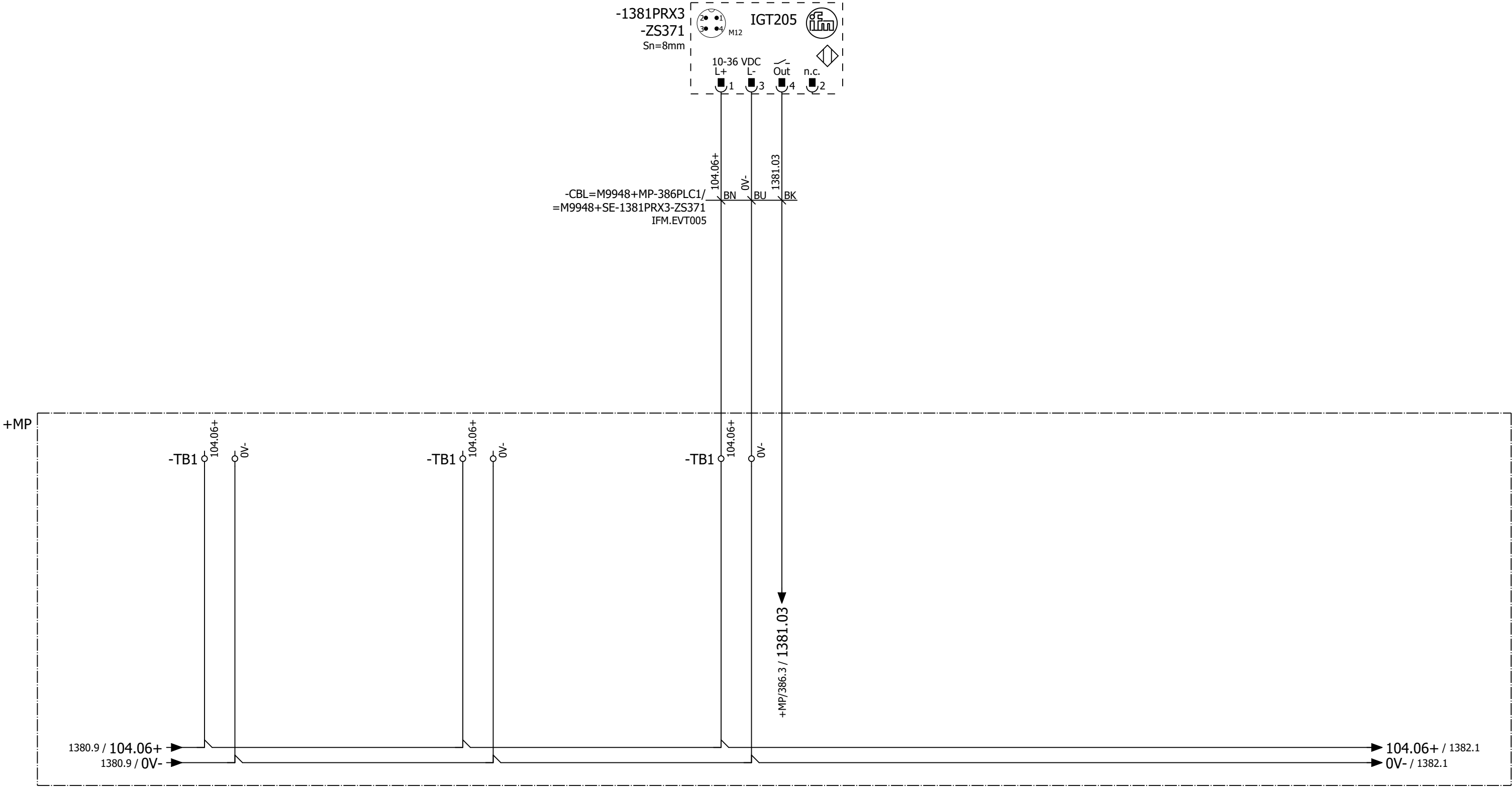
VALVE 2 FILLER ROTATION

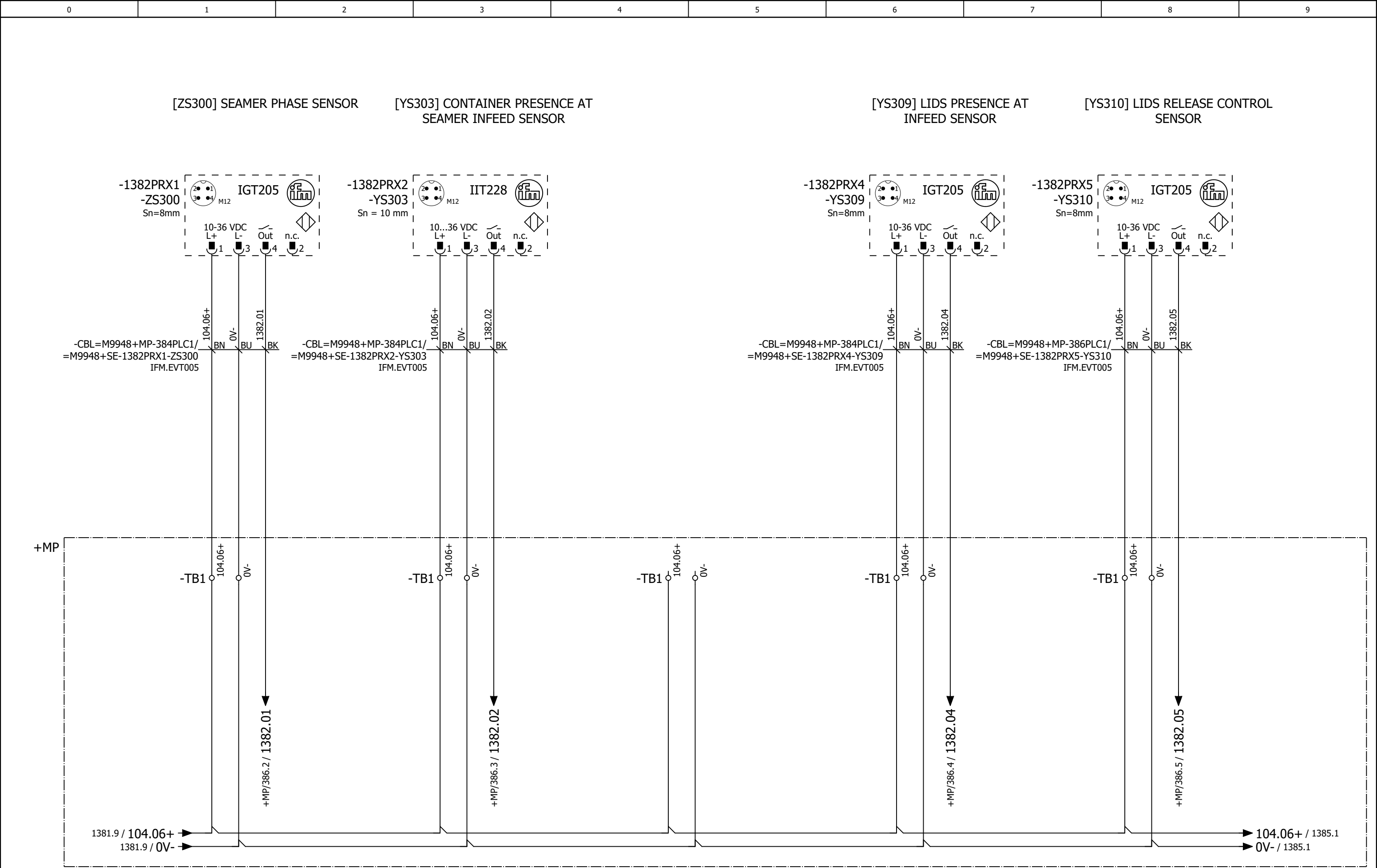




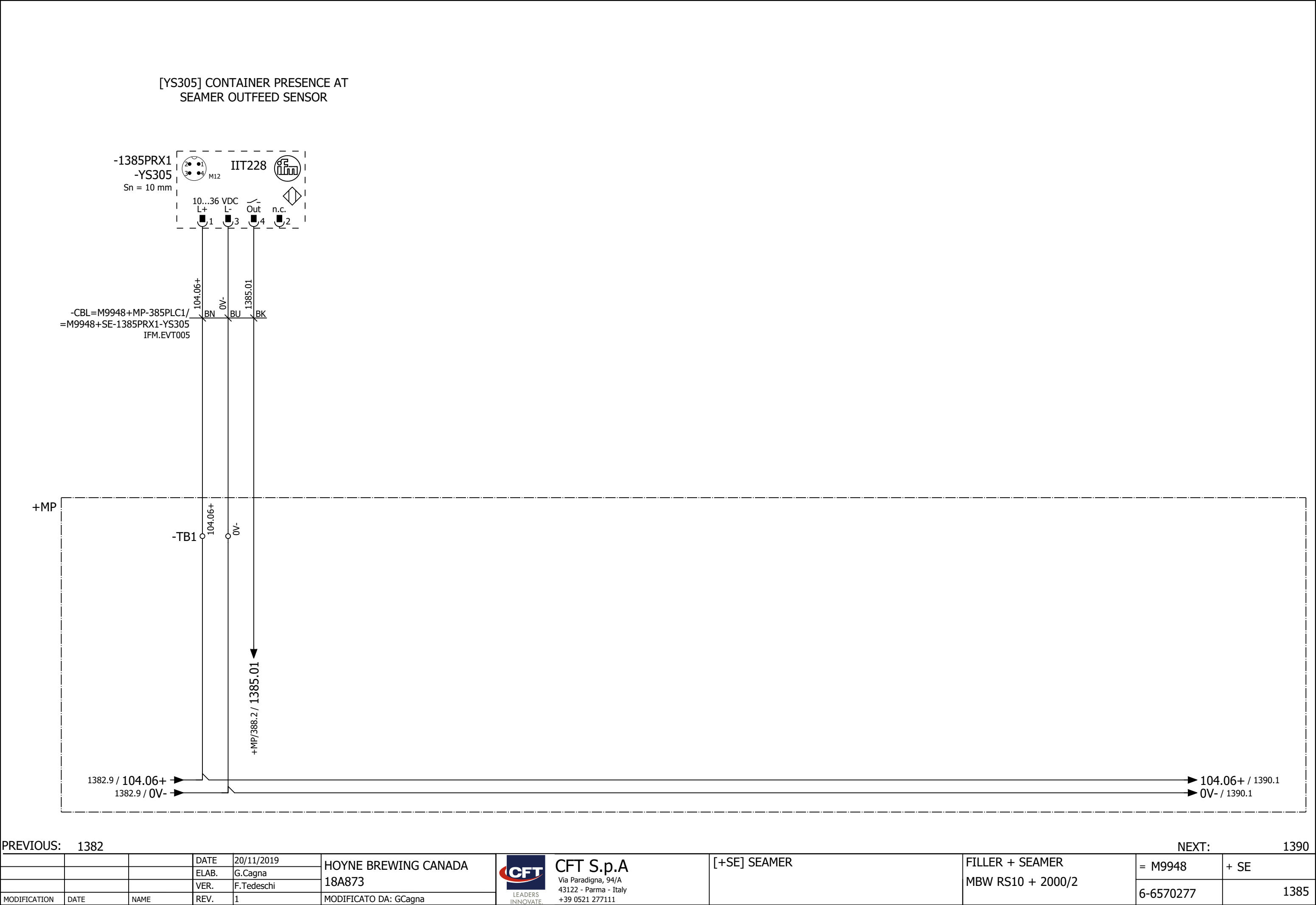


[ZS371] SEAMER HEAD NR 1
SENSOR



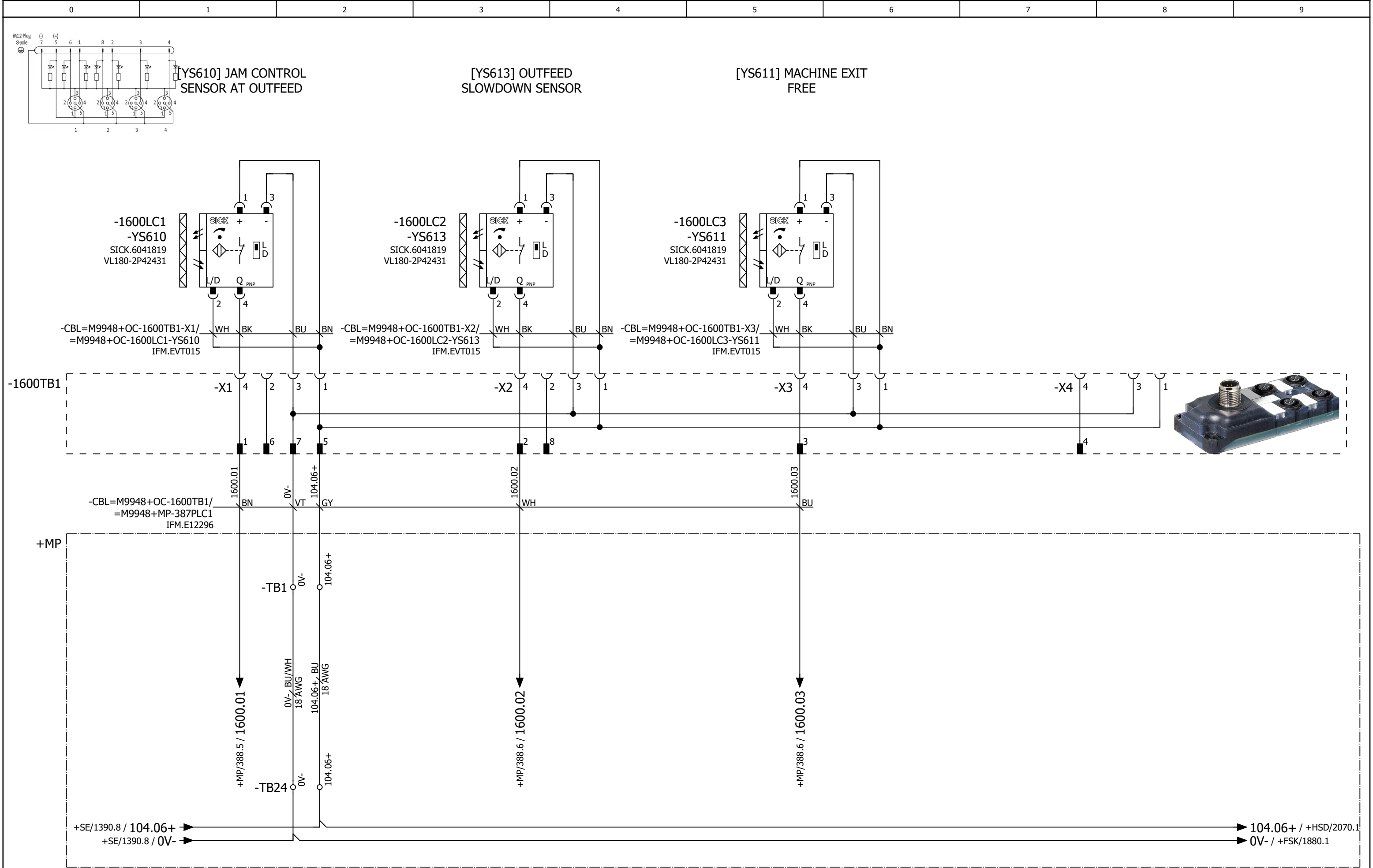


PREVIOUS: 1381										NEXT: 1385				
			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111 LEADERS INNOVATE	[+SE] SEAMER	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ SE				
			ELAB.	G.Cagna										
			VER.	F.Tedeschi										
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna							6-6570277	1382	



[EV300] SEAMER LIDS RELEASE VALVE: CMD

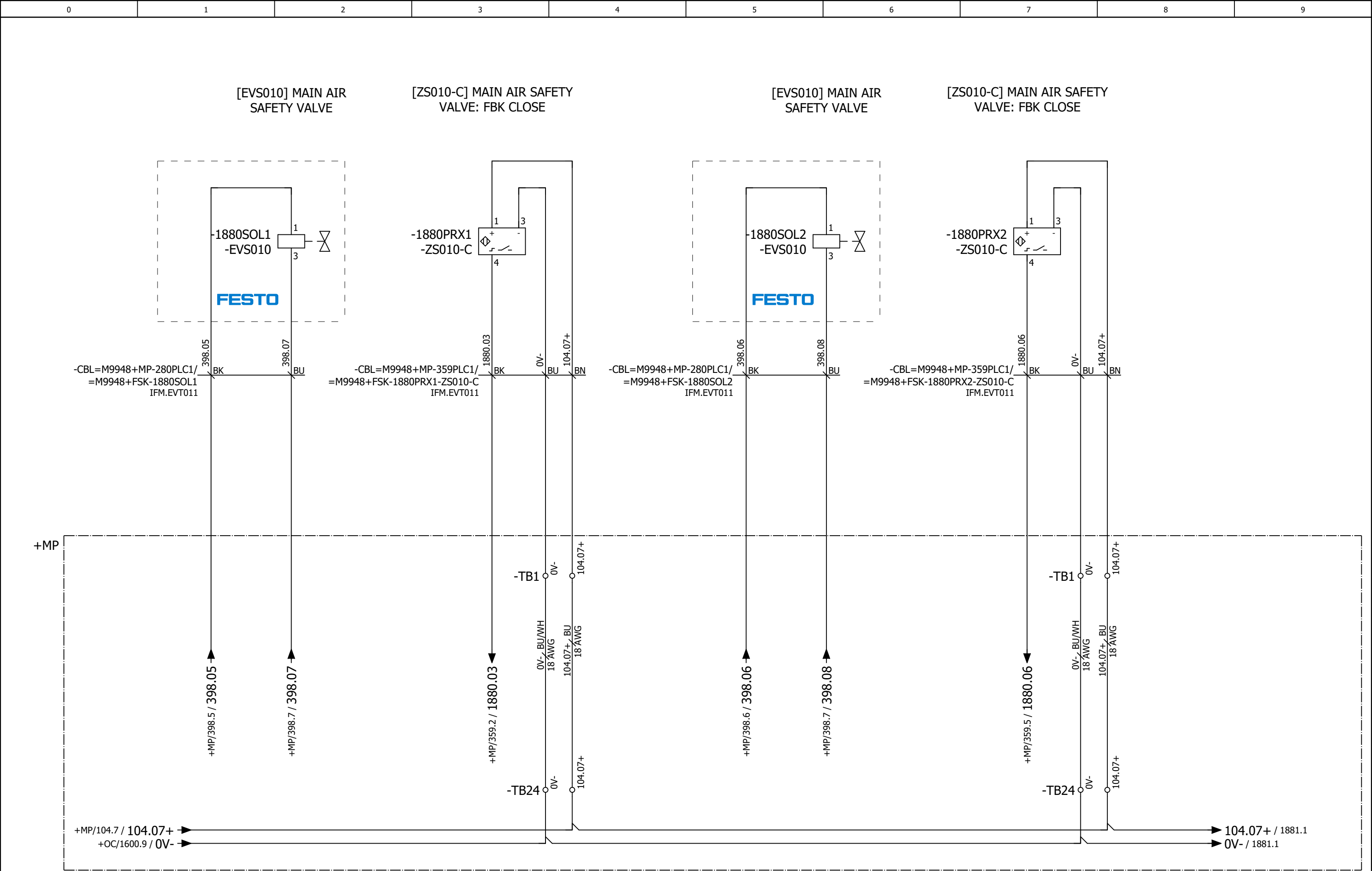




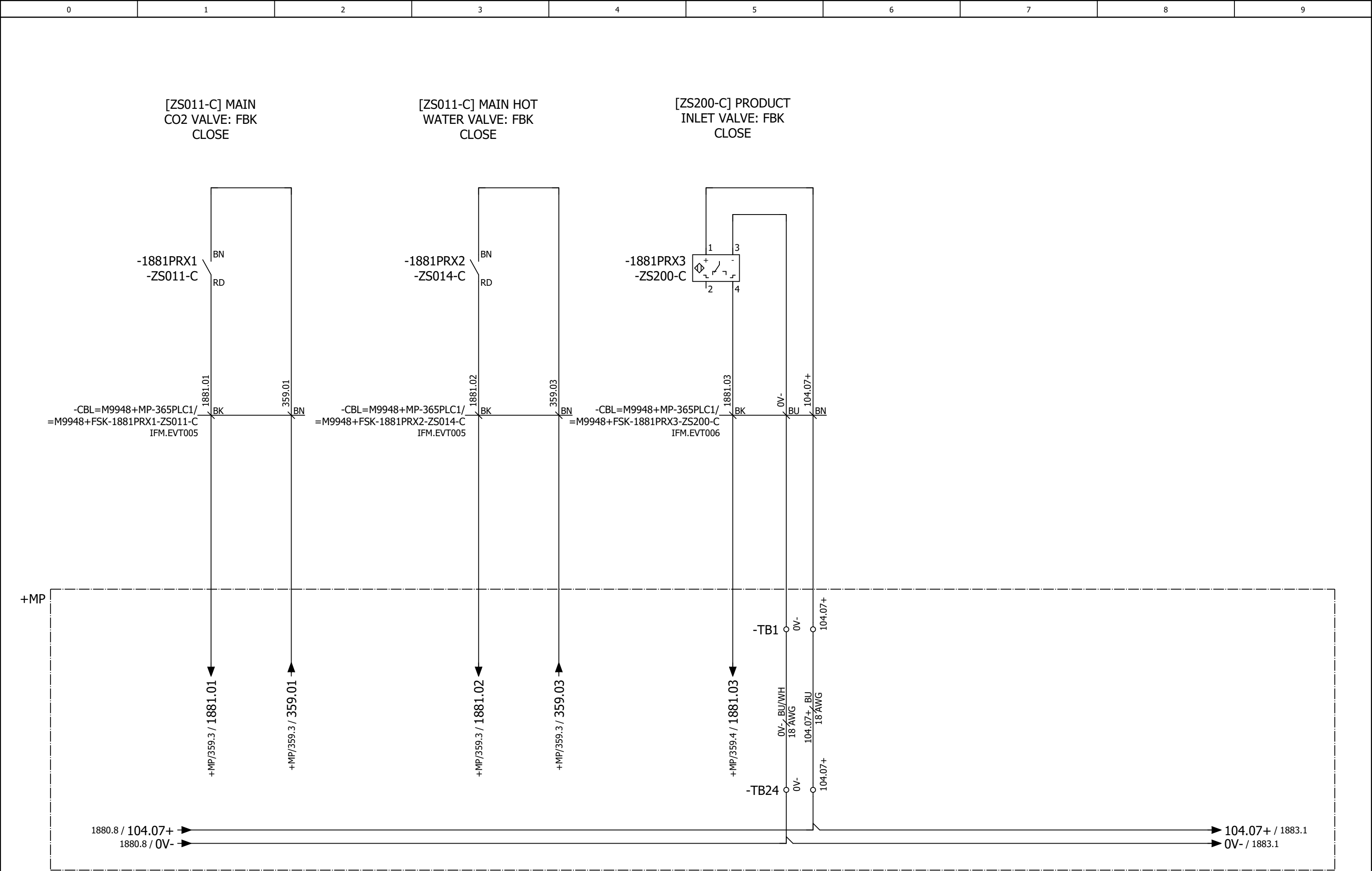
PREVIOUS: +SE/1390

NEXT: +FSK/1880

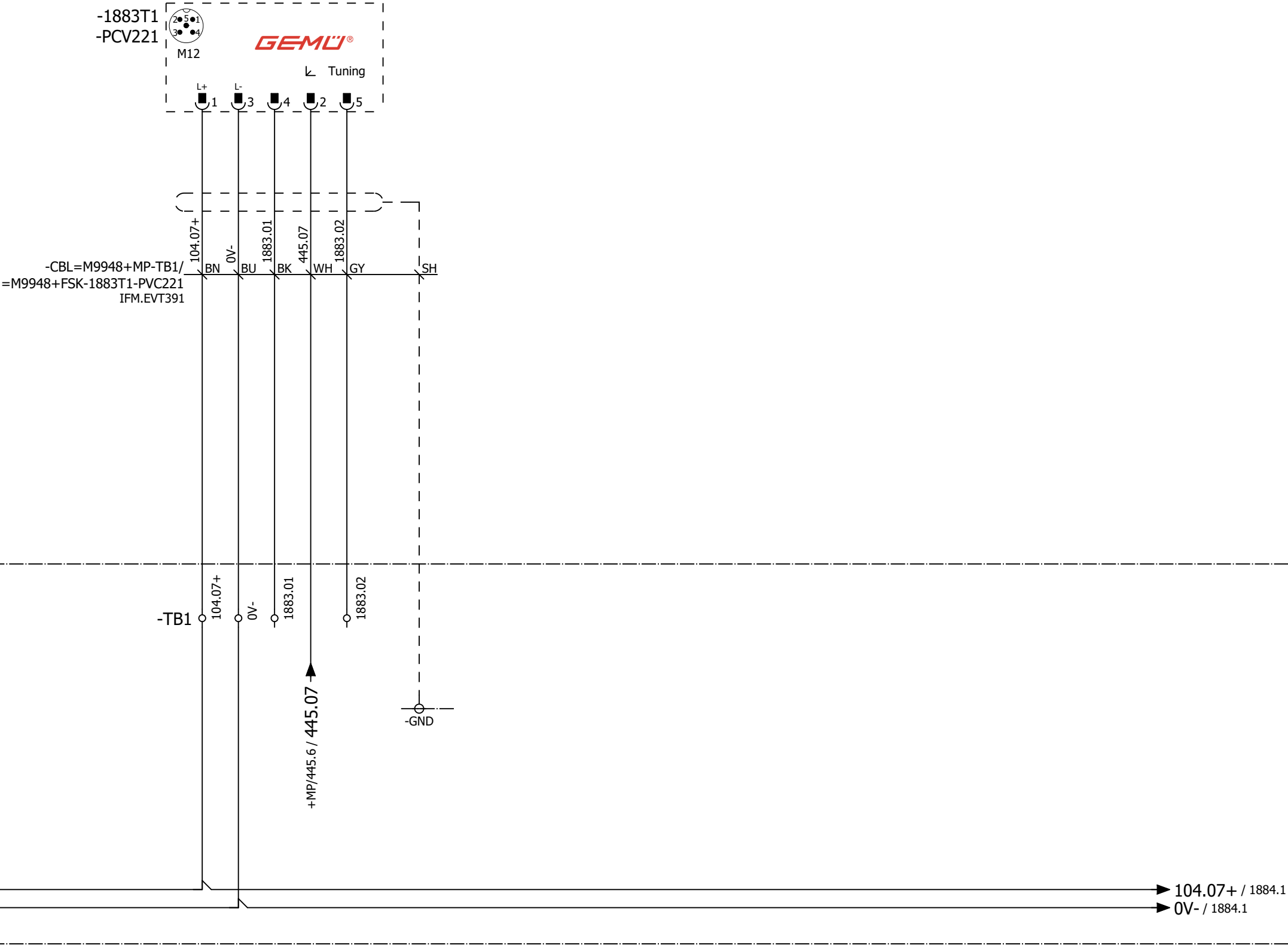
			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+OC] OUTFEED CONVEYOR	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ OC
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	1600

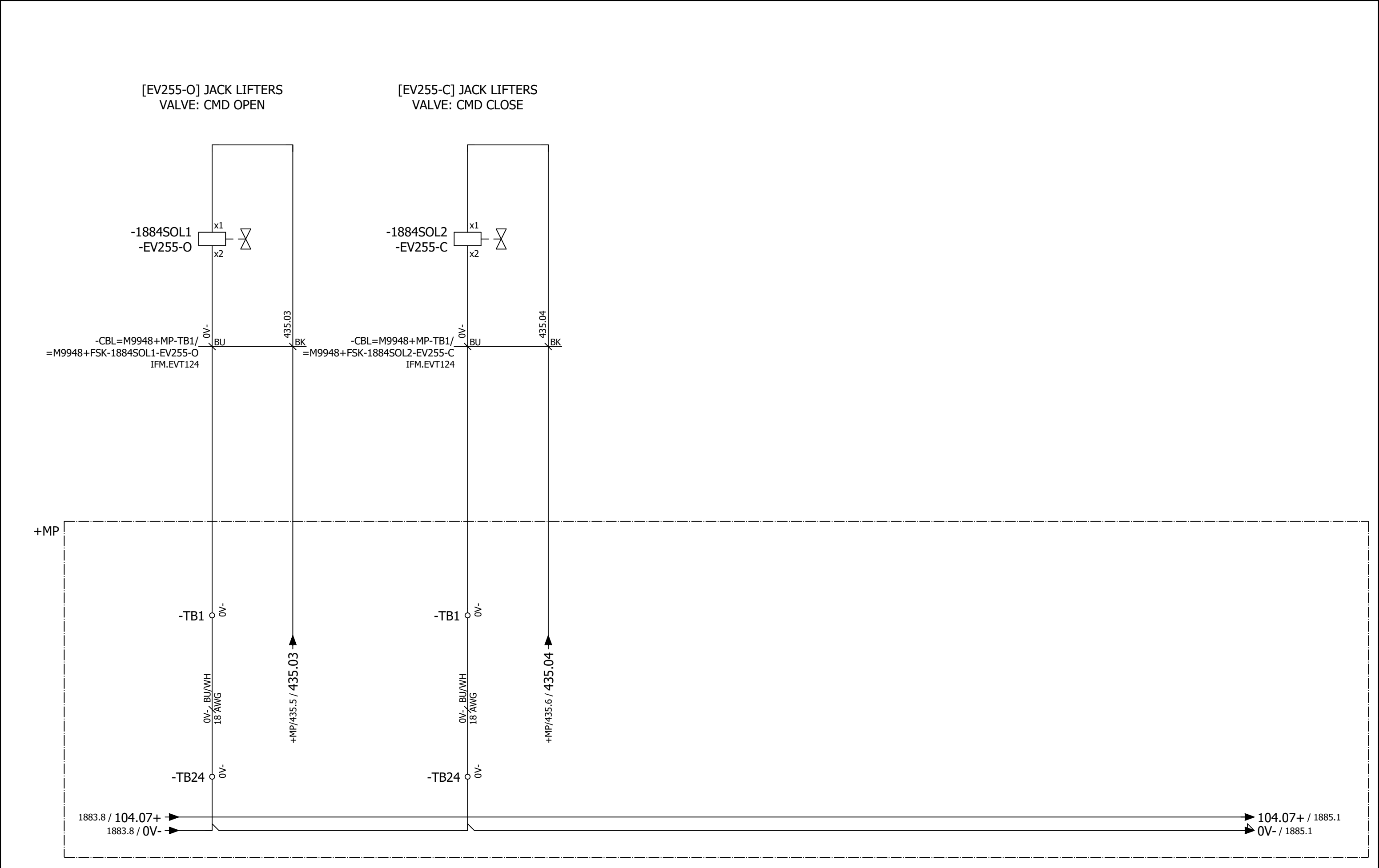


PREVIOUS: +OC/1600					NEXT: 1881					
			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+FSK] FILLER SKID	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ FSK
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	1880



[PCV221] TANK PRESSURE
CONTROL VALVE





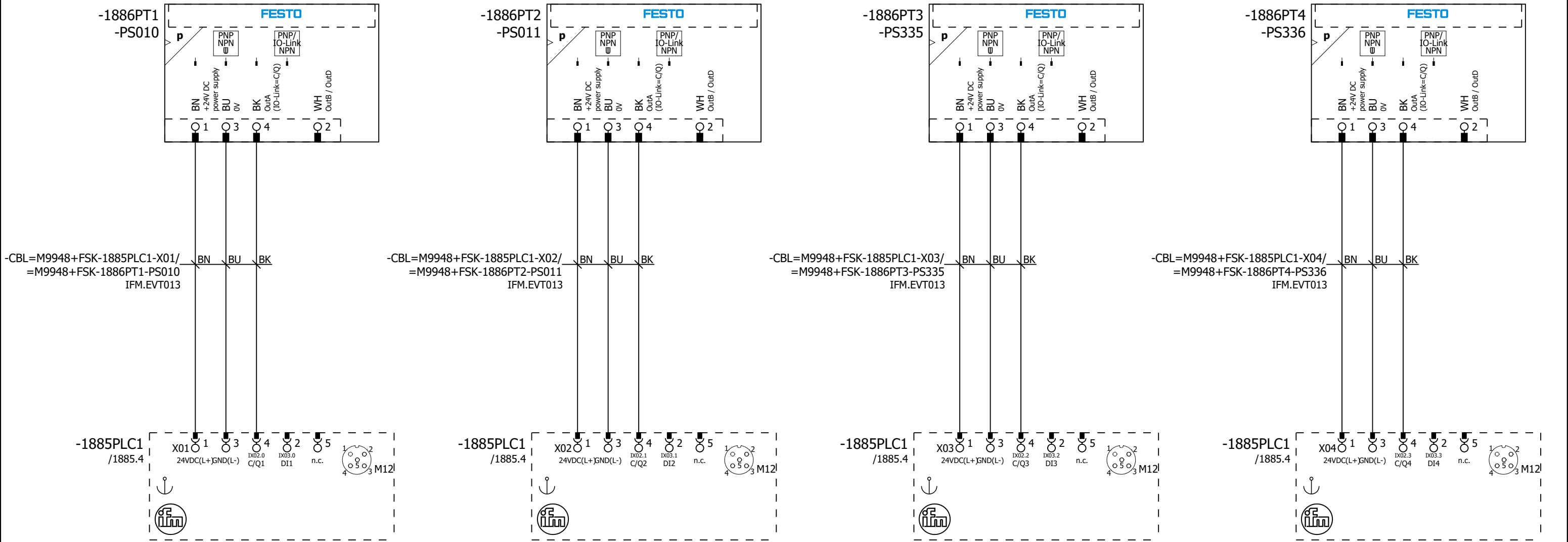


[PS010] MAIN AIR PRESSURE SWITCH

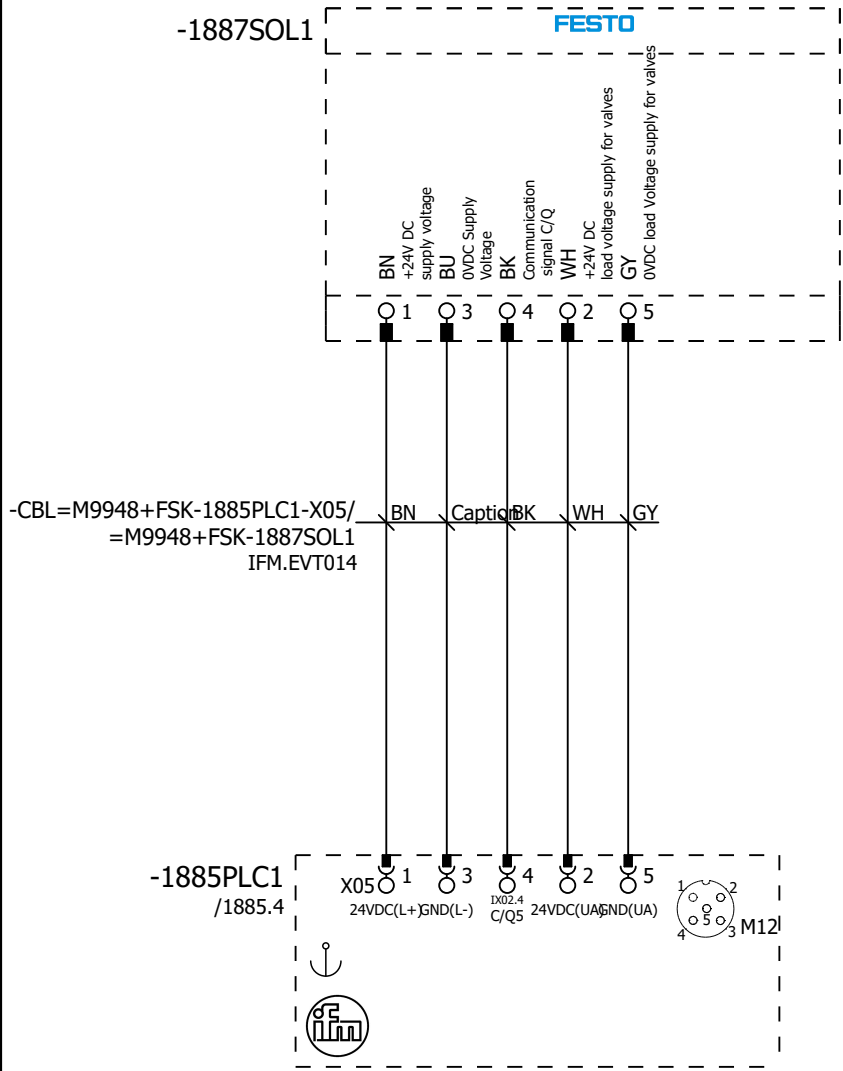
[PS011] MAIN CO2 PRESSURE SWITCH

[PS335] CO2 INFEED PRESSURE SWITCH

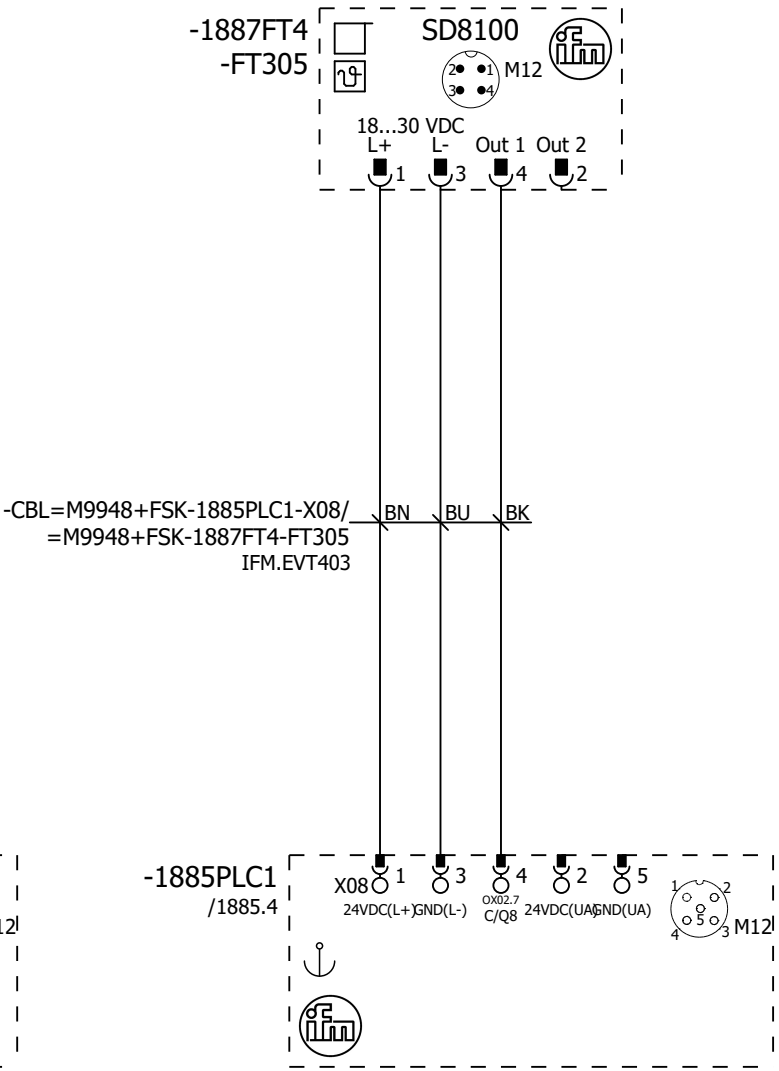
[PS336] REGULATED CO2 PRESSURE SWITCH

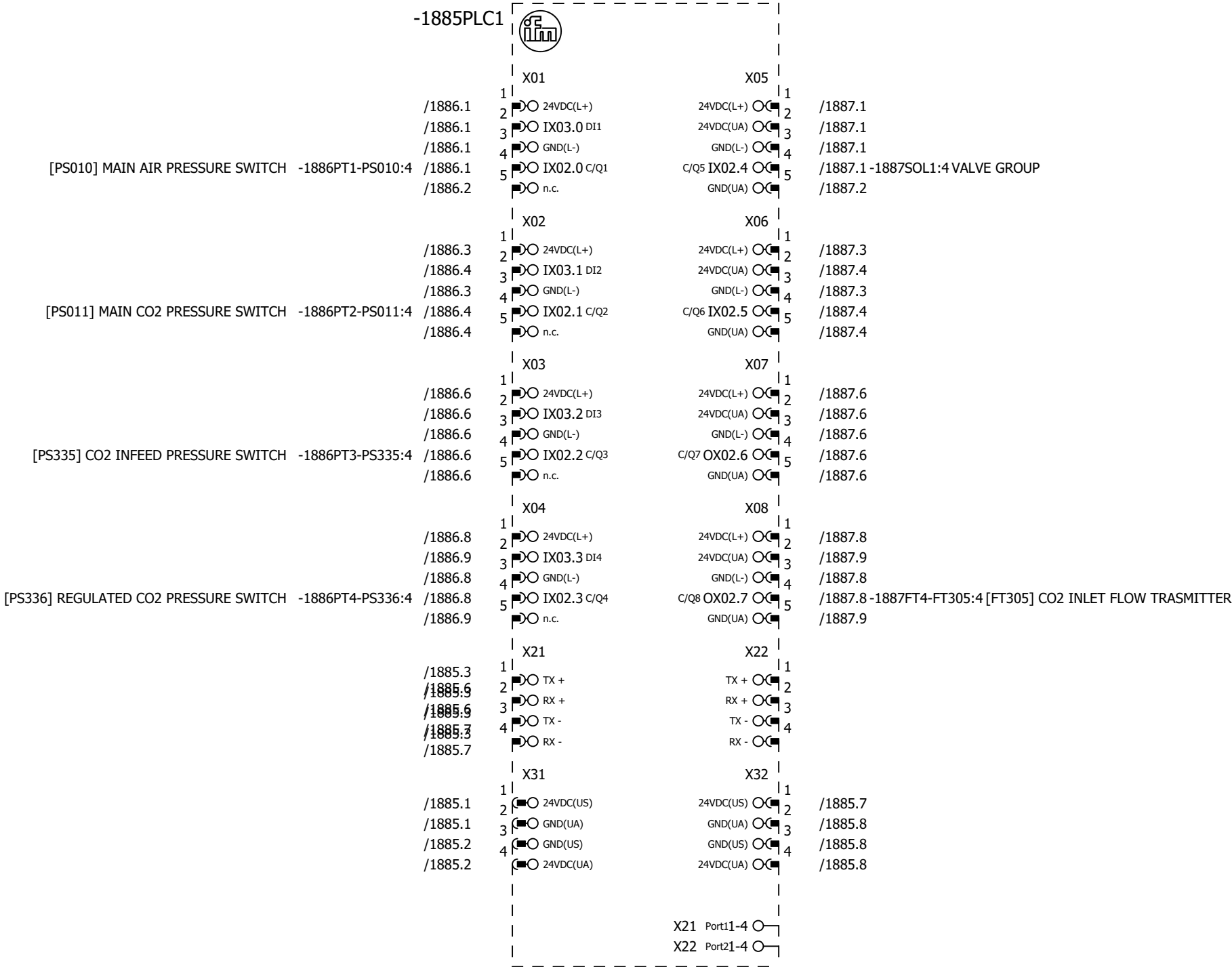


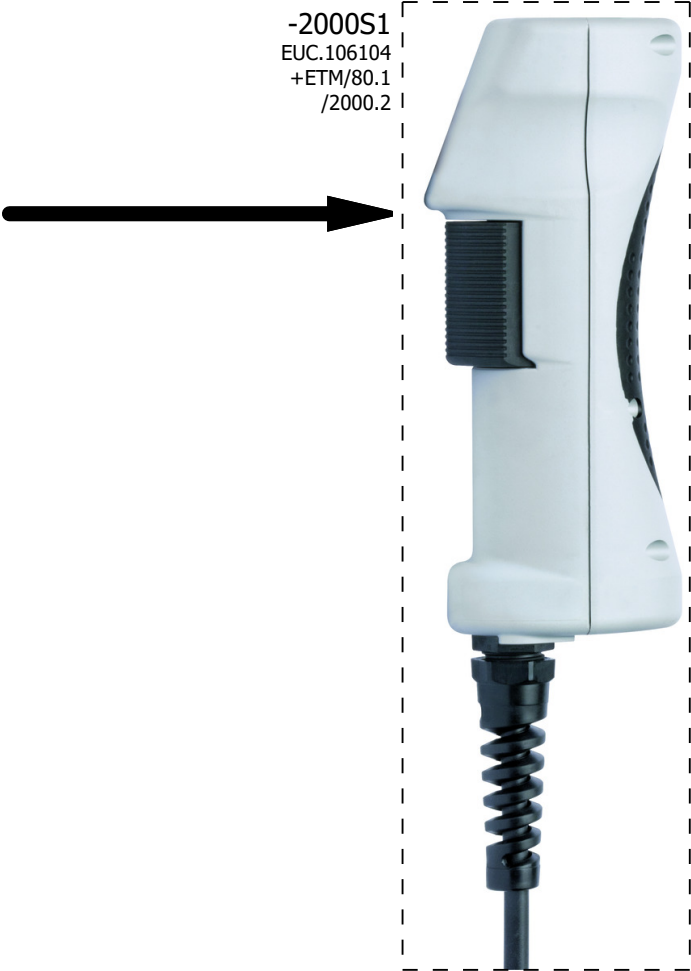
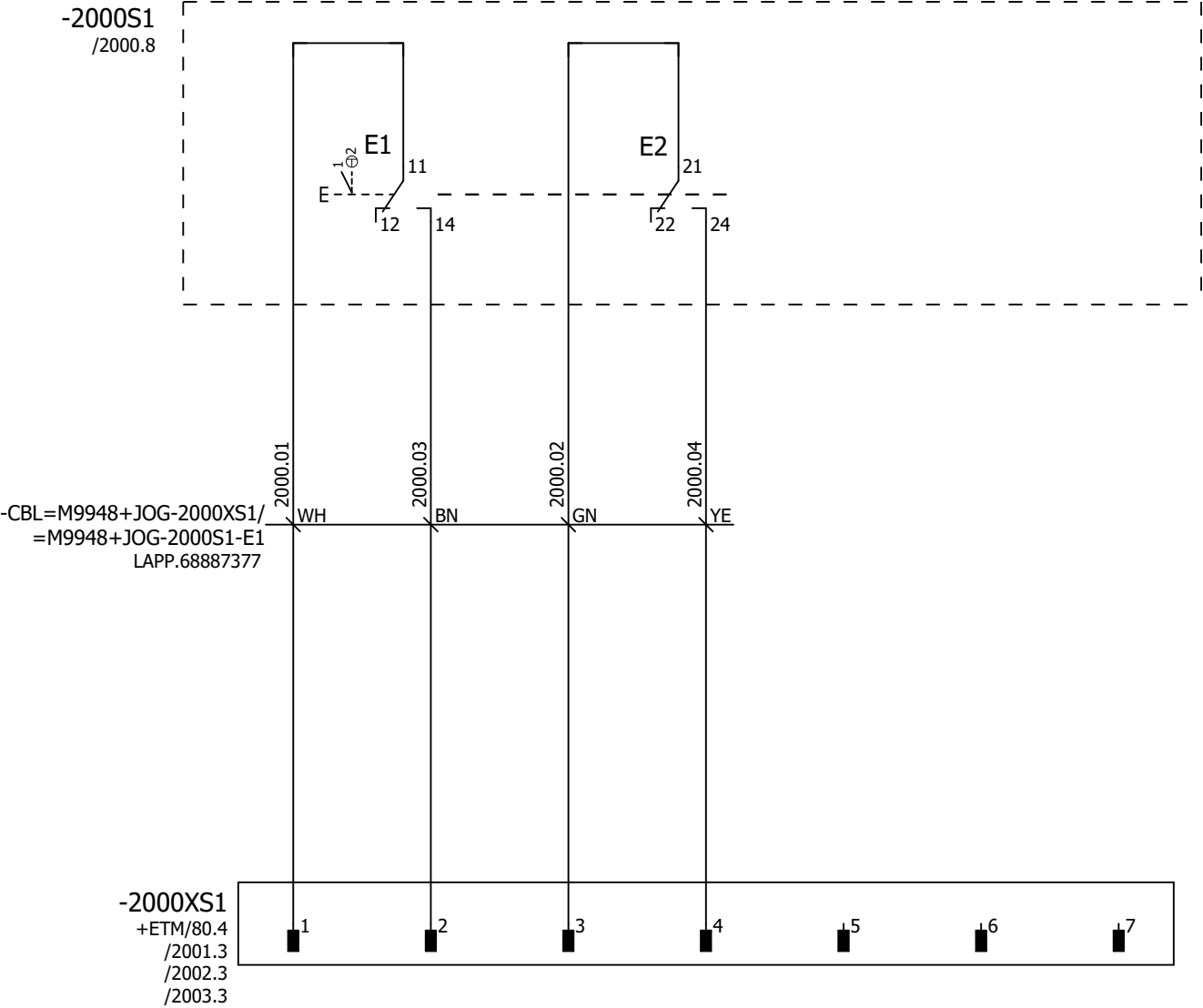
VALVE GROUP



[FT305] CO2 INLET FLOW TRASMITTER

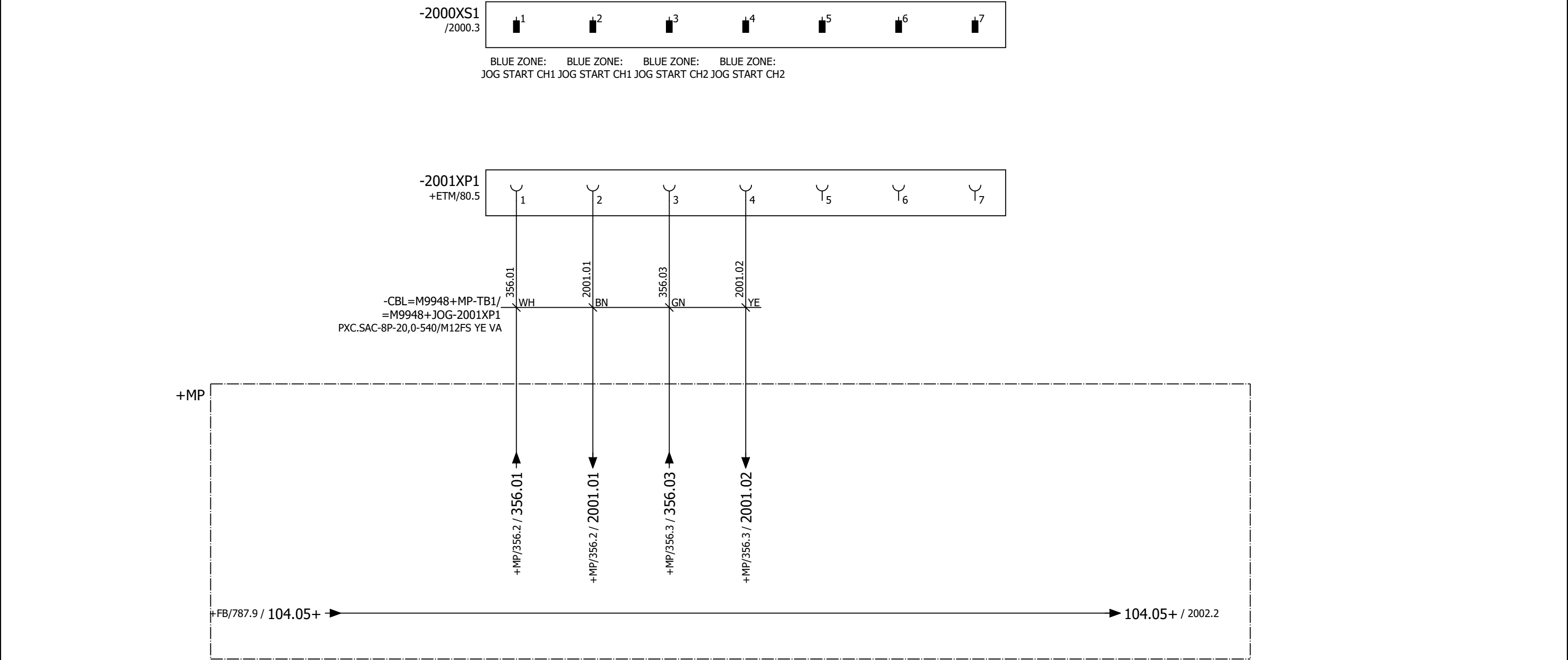


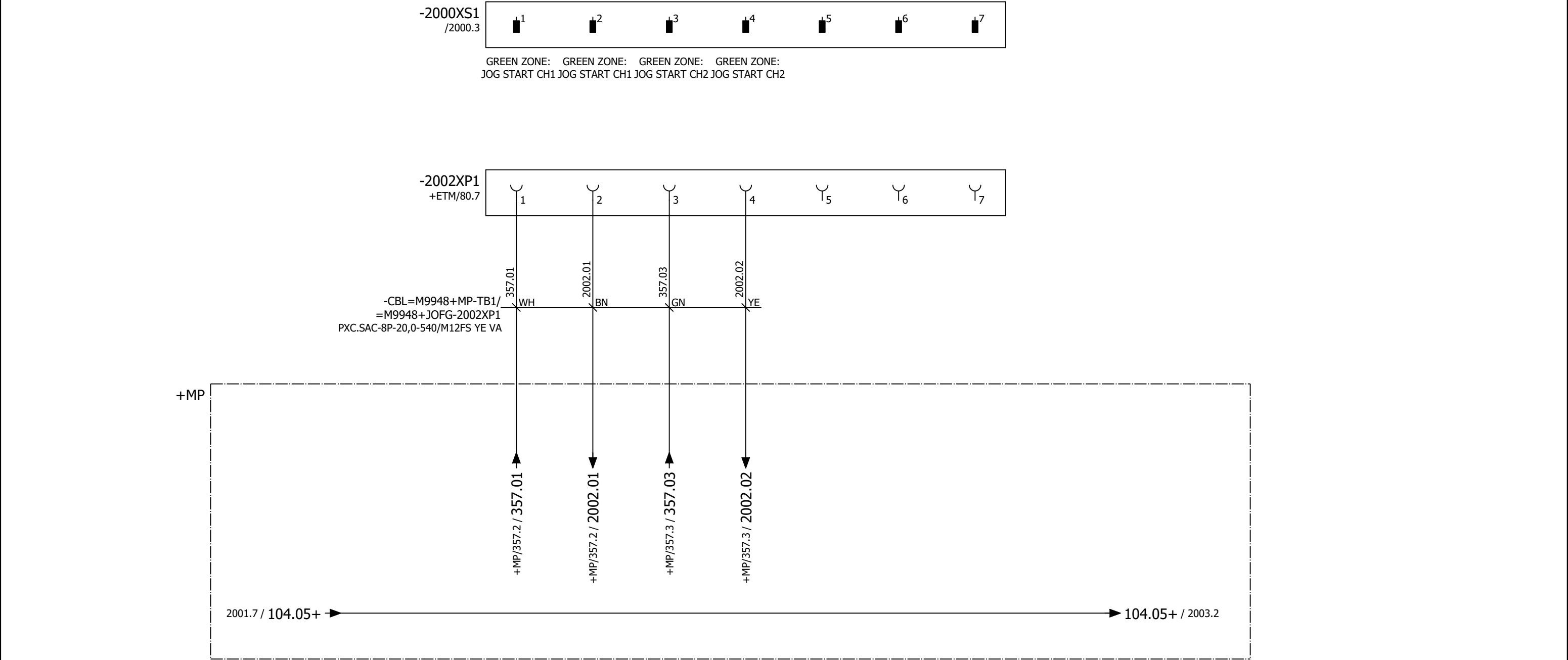


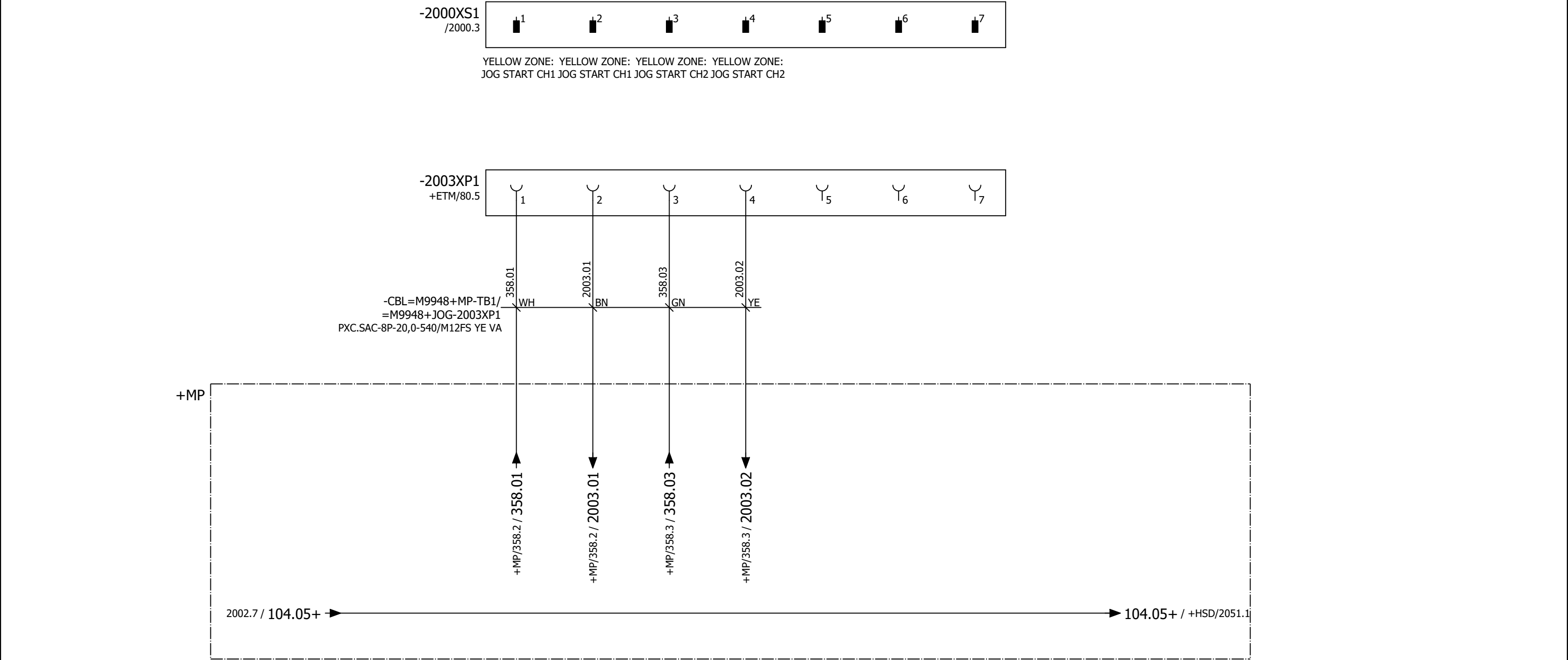


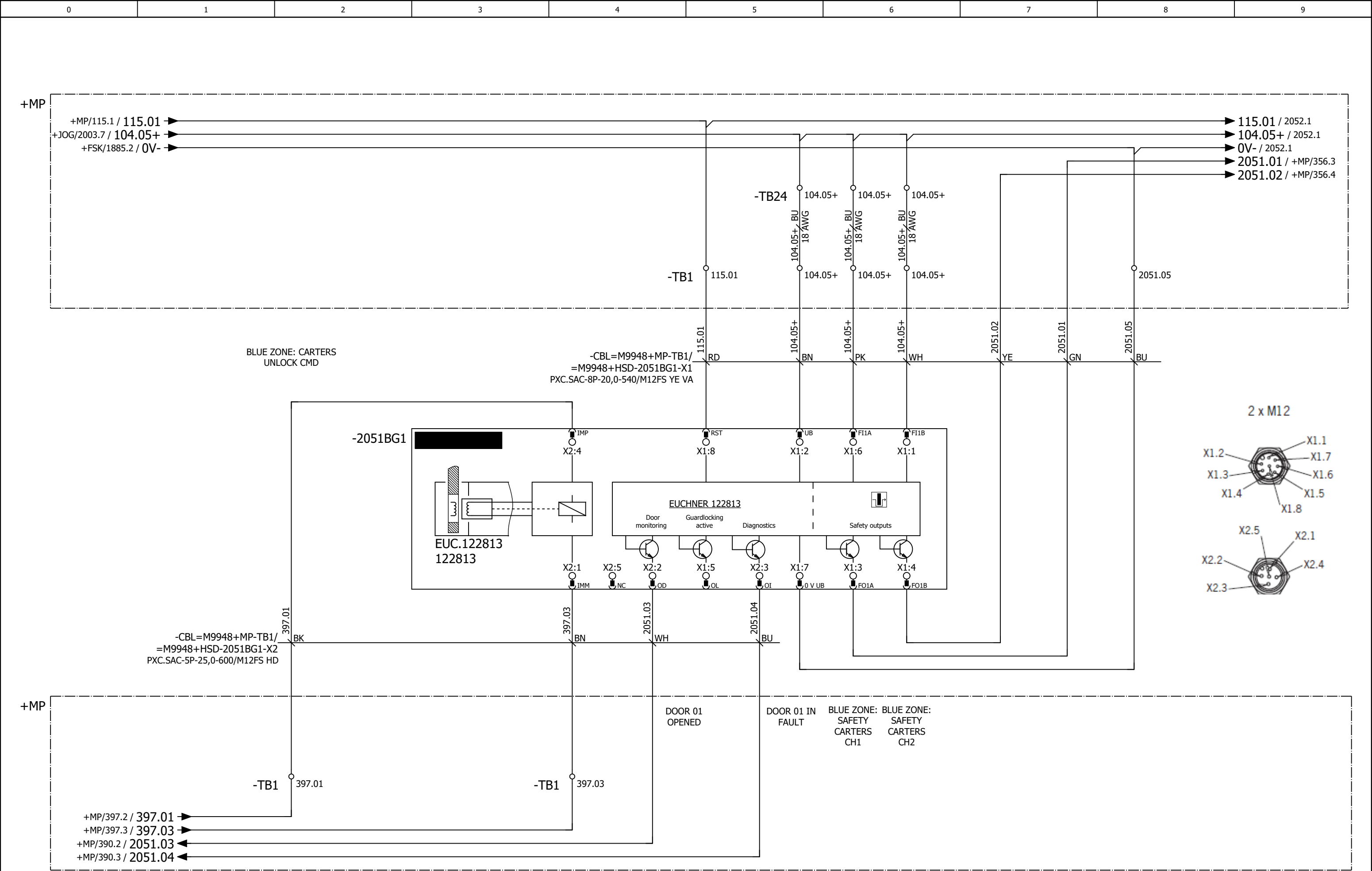
PREVIOUS: +FSK/1888

			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+JOG] MACHINE JOG PLUG	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ JOG
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	2000





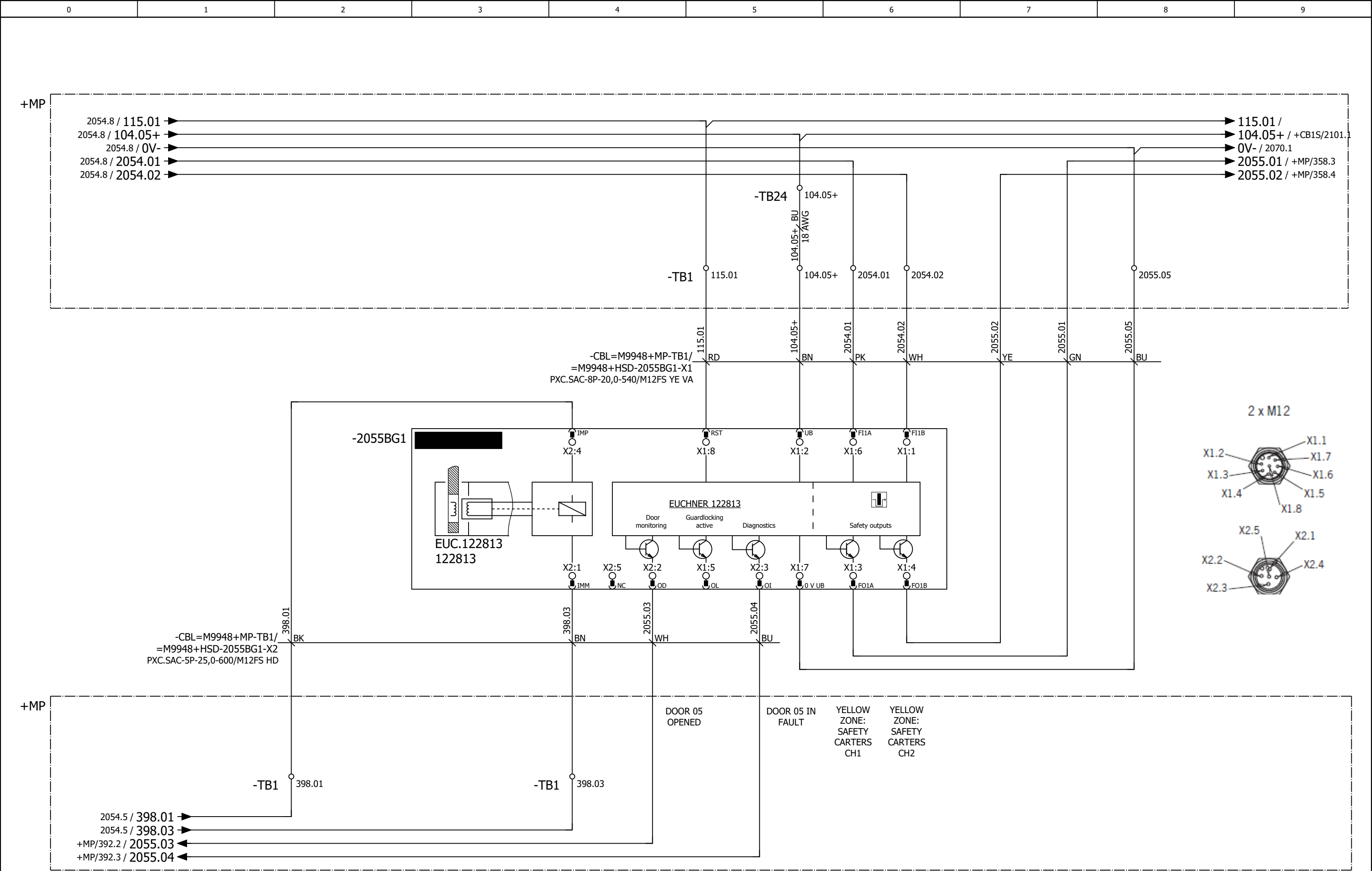




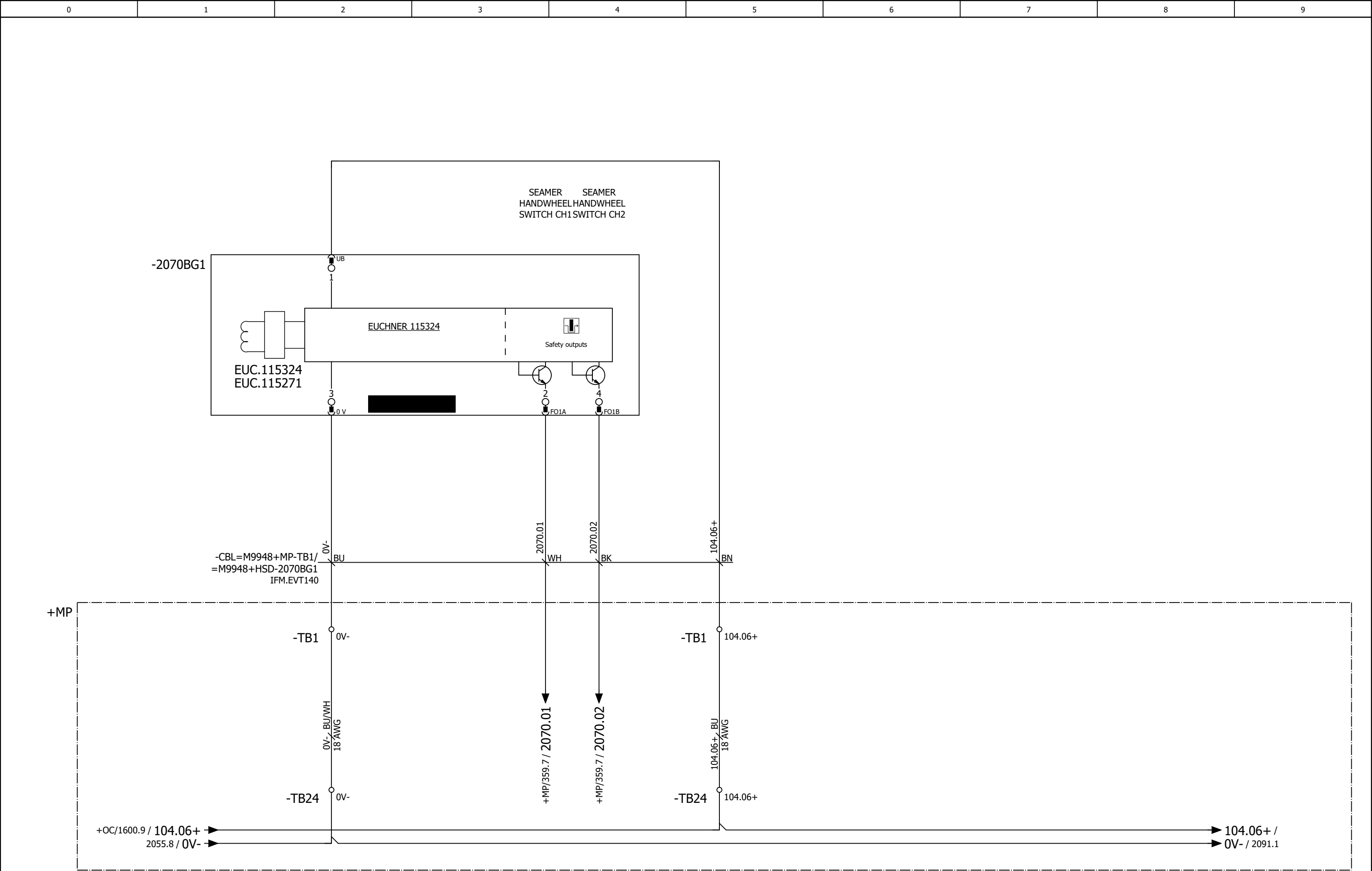
PREVIOUS: +JOG/2003

NEXT: 2052

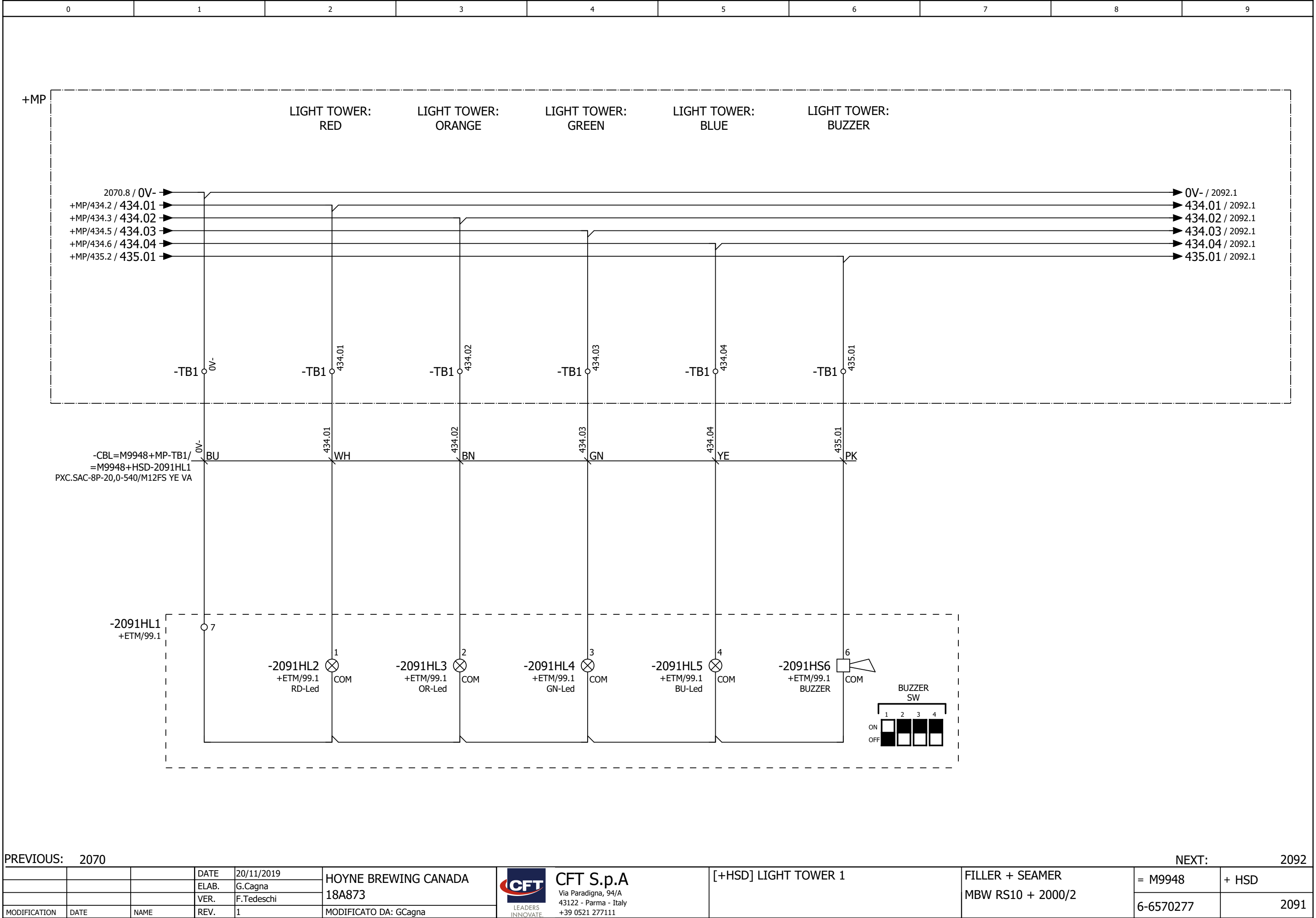
			DATE	30/08/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+HSD] DOOR SAFETY SWITCH 01	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ HSD
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	2051

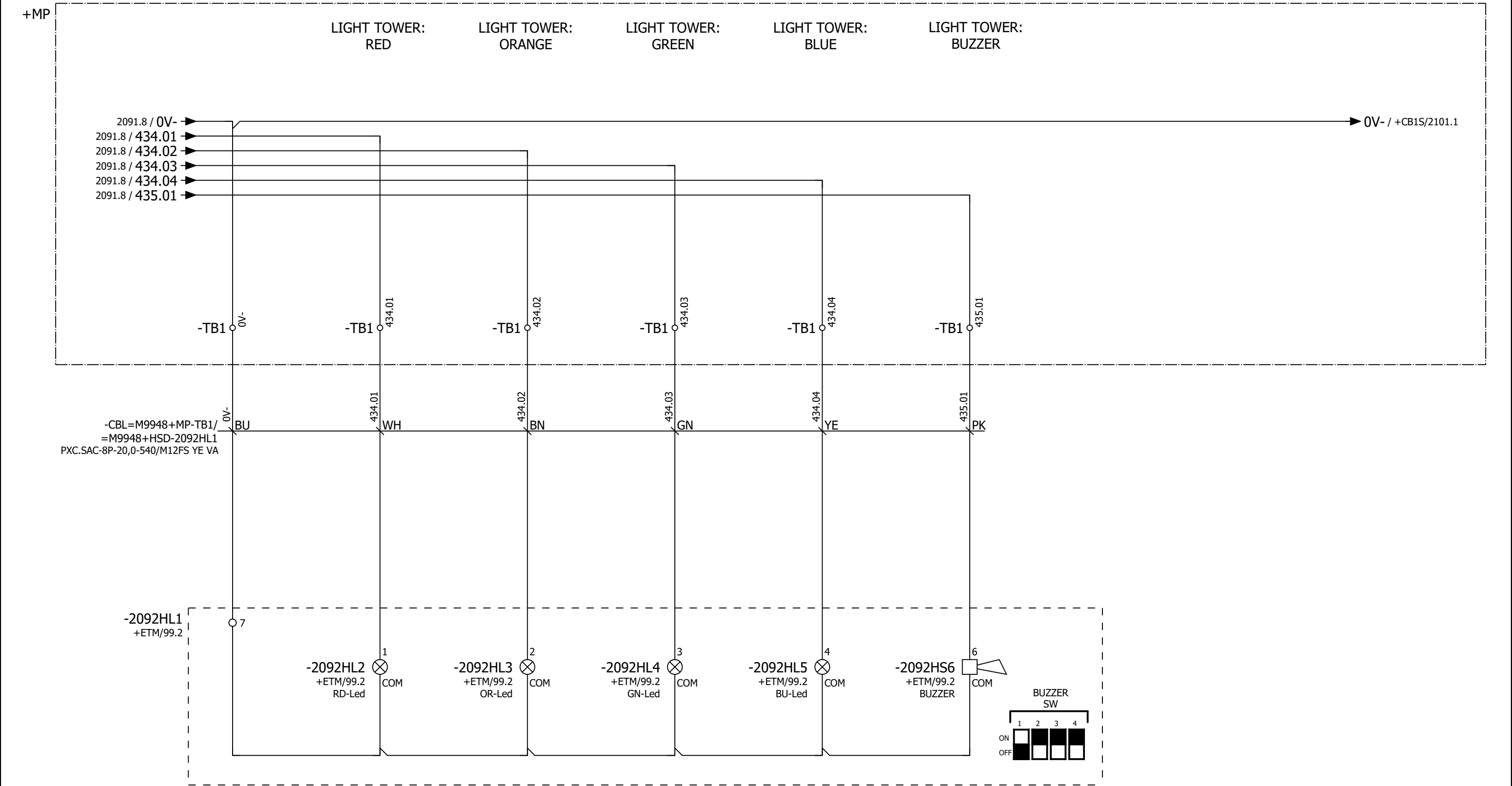


PREVIOUS: 2054					NEXT: 2070					
			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+HSD] DOOR SAFETY SWITCH 05	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ HSD
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	2055



PREVIOUS: 2055					NEXT: 2091					
			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+HSD] SEAMER HANDWHEEL SAFETY SWITCH	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ HSD
			ELAB.	G.Cagna					6-6570277	2070
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna					



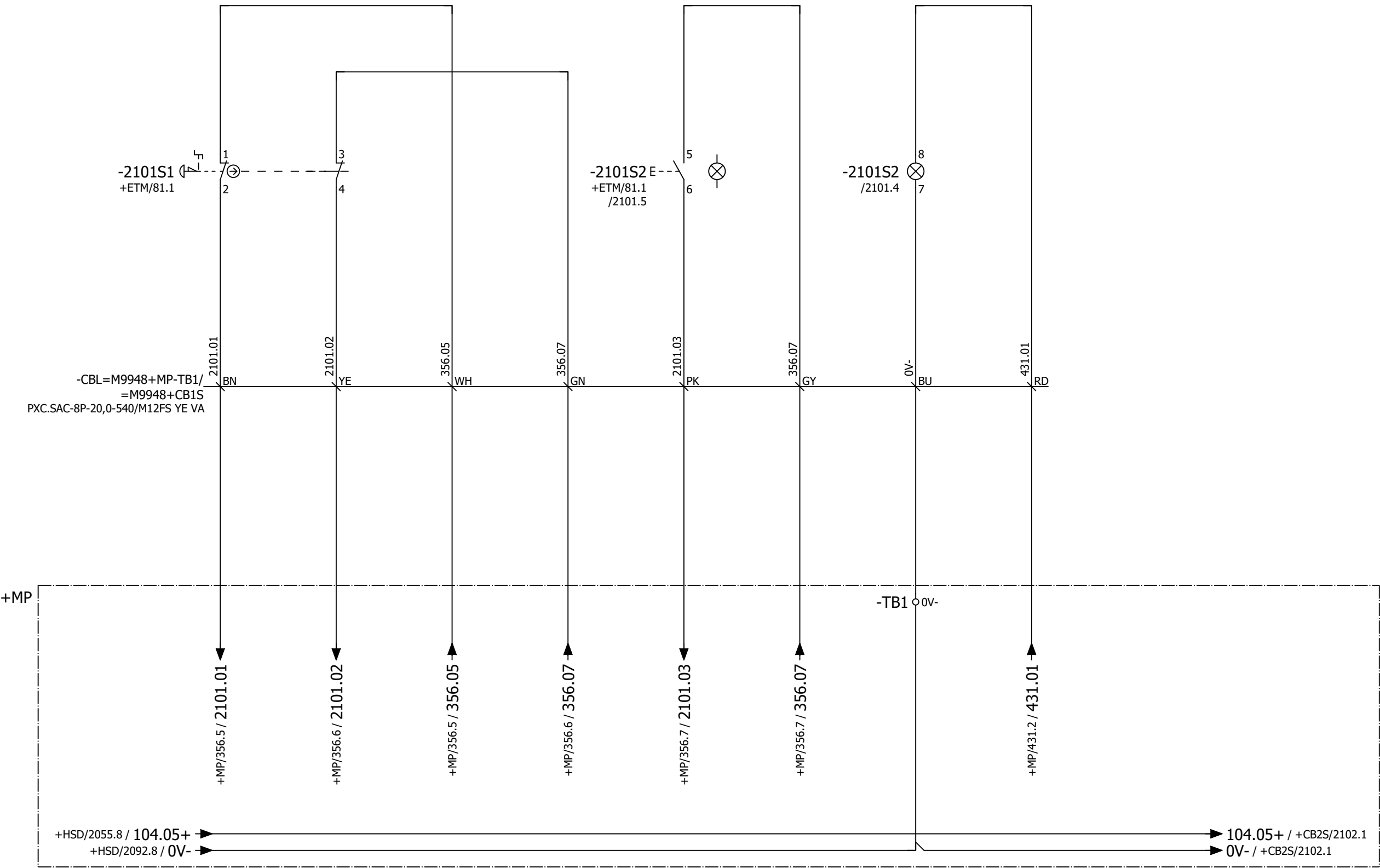


0	1	2	3	4	5	6	7	8	9
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BLUE ZONE: EM. BLUE ZONE: EM.
BUTTON CH1 BUTTON CH2

BLUE ZONE: UNLOCK
REQUEST CH1

BLUE ZONE: UNLOCK
BUTTON LED



PREVIOUS: +HSD/2092

NEXT: +CB2S/2102

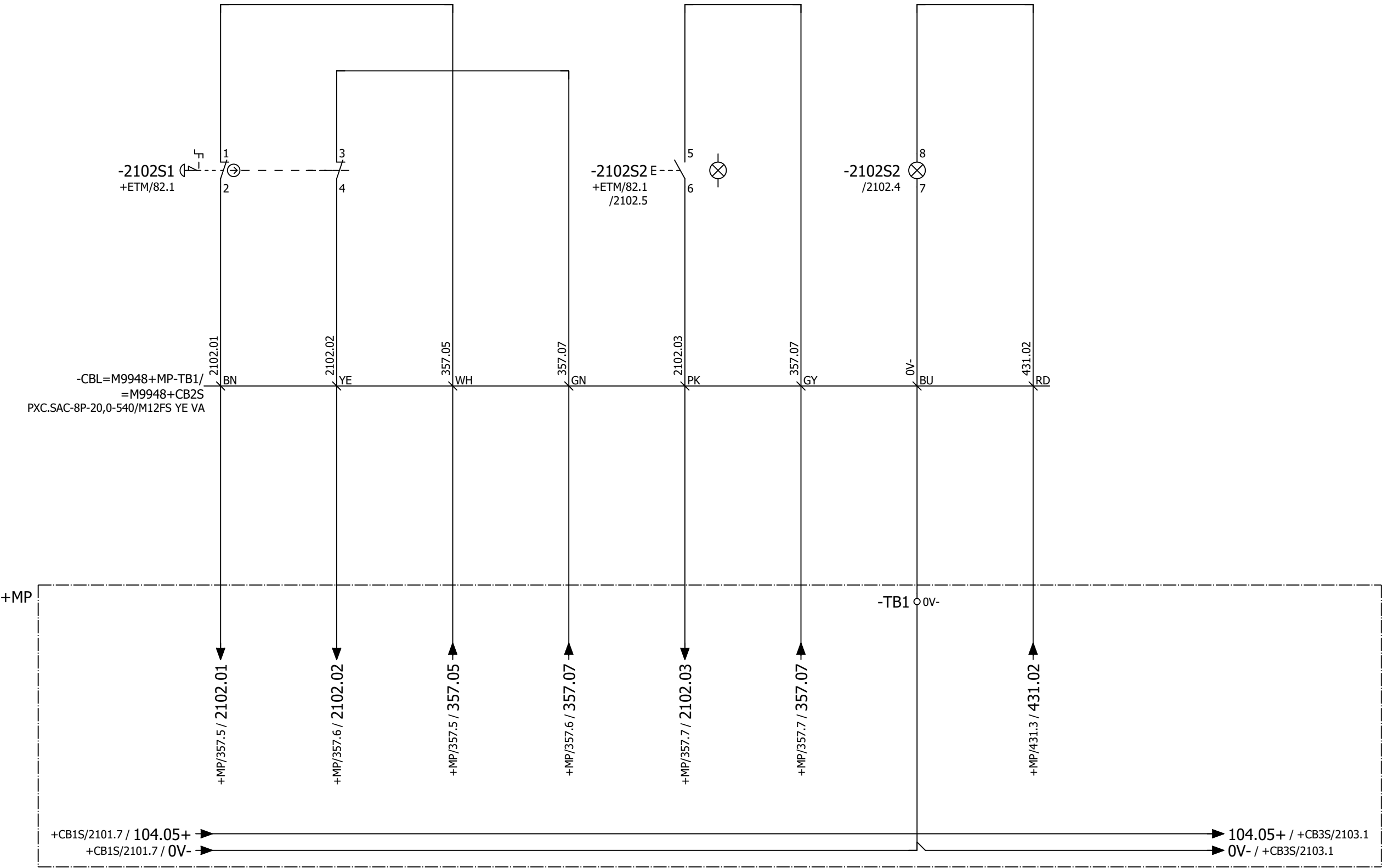
			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+CB1S] BLUE ZONE: UNLOCK DOORS KEYBOARD	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ CB1S
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	2101

0	1	2	3	4	5	6	7	8	9
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GREEN ZONE: EM. BUTTON CH1
GREEN ZONE: EM. BUTTON CH2

GREEN ZONE: UNLOCK REQUEST CH1

GREEN ZONE: UNLOCK BUTTON LED



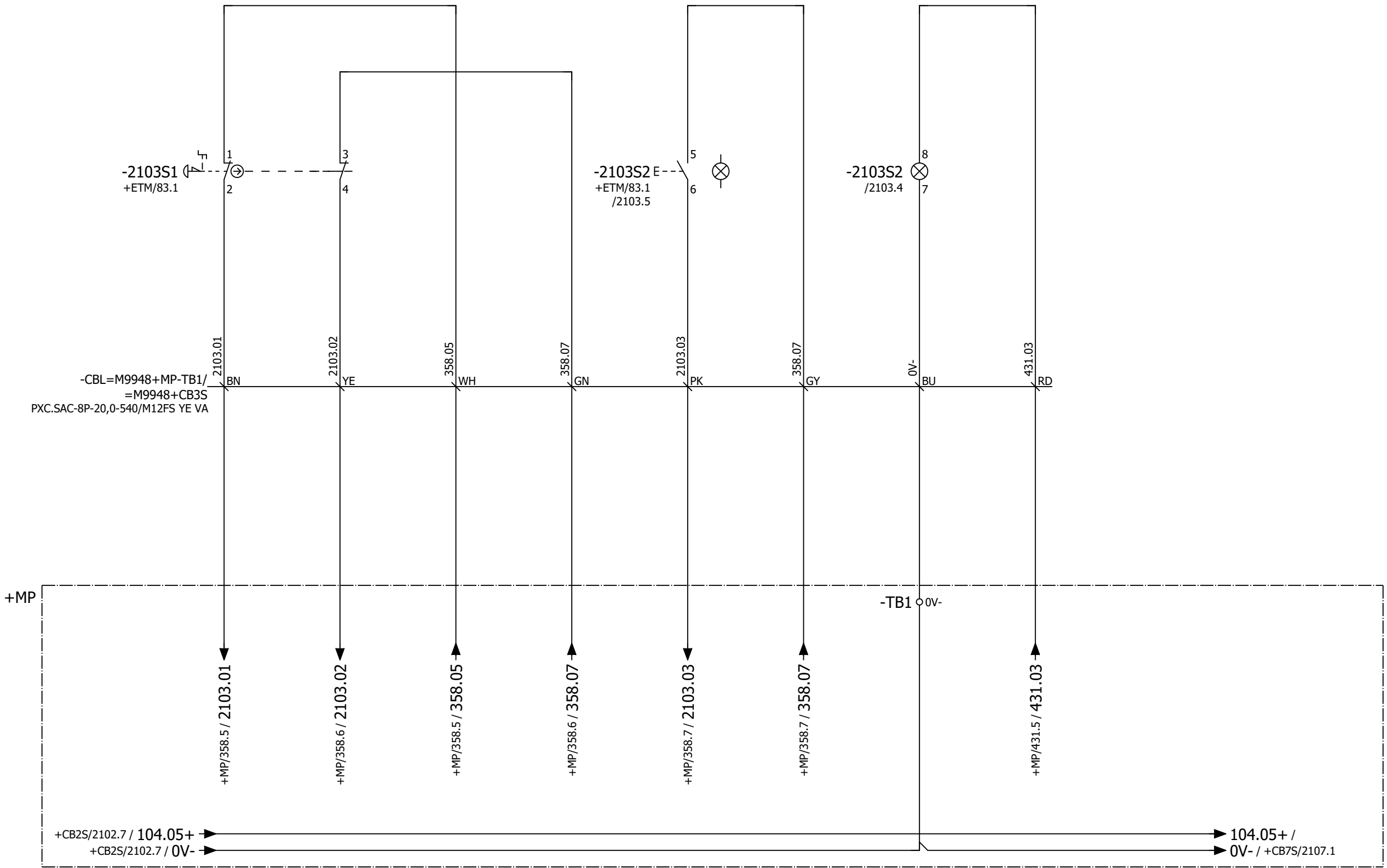
PREVIOUS: +CB1S/2101										NEXT: +CB3S/2103	
			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+CB2S] GREEN ZONE: UNLOCK DOORS KEYBOARD	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ CB2S	
			ELAB.	G.Cagna							
			VER.	F.Tedeschi							
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	2102	

0	1	2	3	4	5	6	7	8	9
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YELLOW ZONE: EM. BUTTON CH1
YELLOW ZONE: EM. BUTTON CH2

YELLOW ZONE: UNLOCK REQUEST CH1

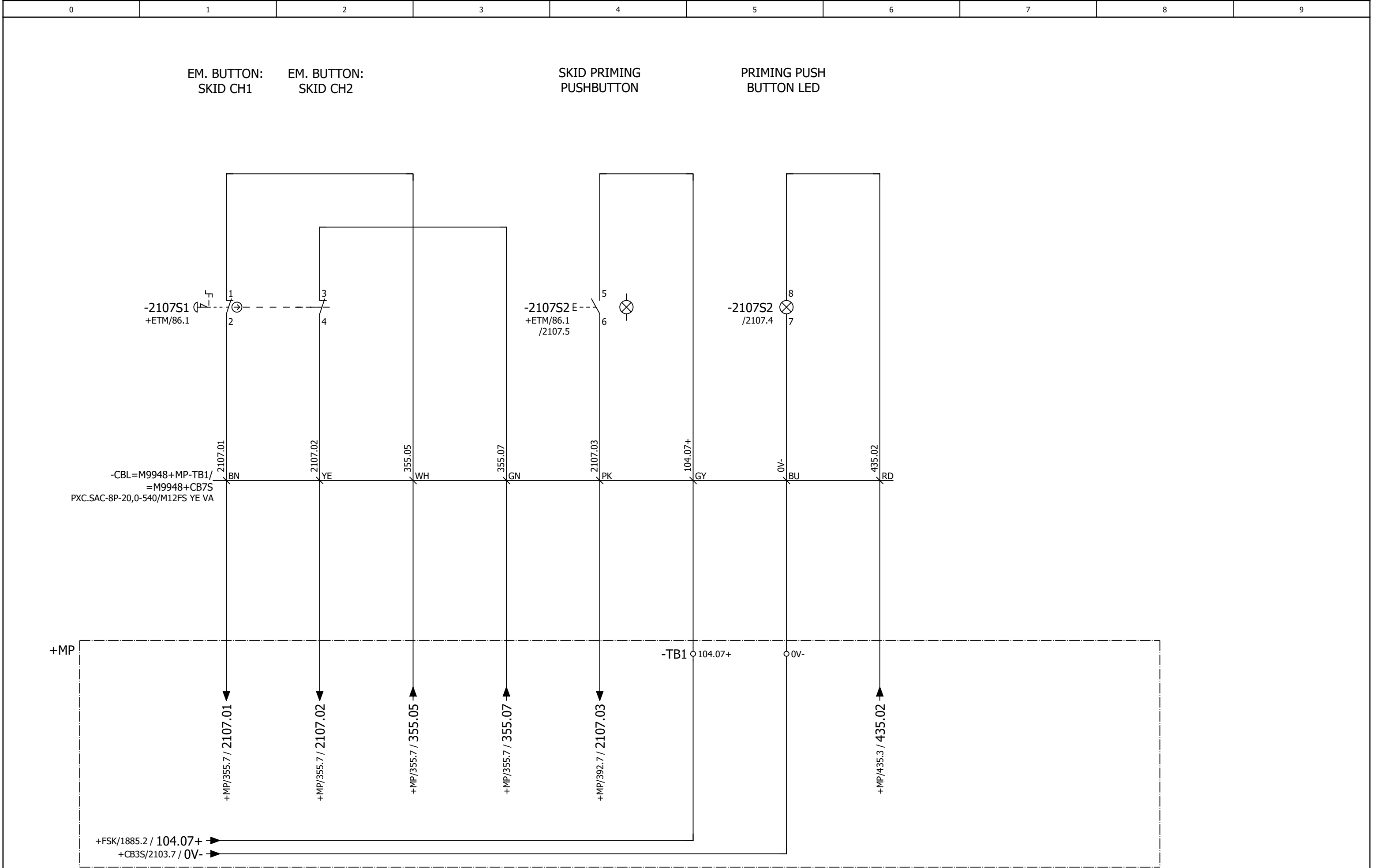
YELLOW ZONE: UNLOCK BUTTON LED



PREVIOUS: +CB2S/2102

NEXT: +CB7S/2107

			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	[+CB3S] YELLOW ZONE: UNLOCK DOORS KEYBOARD	FILLER + SEAMER MBW RS10 + 2000/2	= M9948	+ CB3S
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	2103



Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
	2	SIMATIC NET IE FC RJ45 PLUG 180 RJ45 metal casing	6GK1901-1BB10-2AA0	SIE	SIE.6GK1901-1BB10-2AA0
	0				
	15		SINGLE CORE CABLES TYPE THHW/TFF MTW - UL LISTED	TEKIMA	TK.CVC600_10600_GV
	15		SINGLE CORE CABLES TYPE THHW/TFF MTW - UL LISTED	TEKIMA	TK.CVCB16_10600_GV
CBL=M9948+FB-825XP1/=M9948+FR-885PLC1	1		2170 894	LAPP	LAPP.2170 894 (2x2x AWG22)
CBL=M9948+FB-825XP1/=M9948+FR-885PLC1	0				
CBL=M9948+FB-825XP1=M9948+FR-885PLC1-X31	0				
CBL=M9948+FR-885PLC1-X01/=M9948+FR-956BL1-LT220	1	Female angled connector.	EVT049	IFM	IFM.EVT049
CBL=M9948+FR-885PLC1-X02/=M9948+FR-956BP1-PT221	1	Female angled connector.	EVT049	IFM	IFM.EVT049
CBL=M9948+FR-885PLC1-X03/=M9948+FR-956BT1-TT222	1	Female angled connector.	EVT049	IFM	IFM.EVT049
CBL=M9948+FR-885PLC1-X05/=M9948+JB2FR-870SOL1	1		ADOAH050VAS0010E05	IFM	IFM.EVT014
CBL=M9948+FR-885PLC1-X05/=M9948+JB2FR-870SOL1	1		SSTGH050VASFKPG	IFM	IFM.E11859
CBL=M9948+FR-885PLC1-X06/=M9948+JB3FR-871SOL1	1		ADOAH050VAS0010E05	IFM	IFM.EVT014
CBL=M9948+FR-885PLC1-X06/=M9948+JB3FR-871SOL1	1		SSTGH050VASFKPG	IFM	IFM.E11859
CBL=M9948+FSK-1885PLC1-X01/=M9948+FSK-1886PT1-PS010			ADOAH050VAS0005E05	IFM	IFM.EVT013
CBL=M9948+FSK-1885PLC1-X01/=M9948+FSK-1886PT1-PS010			SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+FSK-1885PLC1-X02/=M9948+FSK-1886PT2-PS011			ADOAH050VAS0005E05	IFM	IFM.EVT013
CBL=M9948+FSK-1885PLC1-X02/=M9948+FSK-1886PT2-PS011			SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+FSK-1885PLC1-X03/=M9948+FSK-1886PT3-PS335			ADOAH050VAS0005E05	IFM	IFM.EVT013
CBL=M9948+FSK-1885PLC1-X03/=M9948+FSK-1886PT3-PS335			SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+FSK-1885PLC1-X04/=M9948+FSK-1886PT4-PS336			ADOAH050VAS0005E05	IFM	IFM.EVT013
CBL=M9948+FSK-1885PLC1-X04/=M9948+FSK-1886PT4-PS336			SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+FSK-1885PLC1-X05/=M9948+FSK-1887SOL1	1		ADOAH050VAS0010E05	IFM	IFM.EVT014
CBL=M9948+FSK-1885PLC1-X05/=M9948+FSK-1887SOL1	1		SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+FSK-1885PLC1-X08/=M9948+FSK-1887FT4-FT305		Female angled connector. M12 4-shielded wire-10mt	ADOAH040VAS0010L04	IFM	IFM.EVT403
CBL=M9948+FSK-1885PLC1-X08/=M9948+FSK-1887FT4-FT305			SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+IC-149PWS1/=M9948+IC-149MTR1-M600	2	CV04G250_8110S_GR 4AWG14+SCH	CONTROL TRAY CABLE 4G2,5+SCH	TEKIMA	TK.CV04G250_8110S_GR
CBL=M9948+IC-590TB1-X1/=M9948+IC-590LC1-YS600	1		ADOAH050VAS0025E05	IFM	IFM.EVT015
CBL=M9948+IC-590TB1-X1/=M9948+IC-590LC1-YS600	1		SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+IC-590TB1-X2/=M9948+IC-590LC2-YS601	1		ADOAH050VAS0025E05	IFM	IFM.EVT015
CBL=M9948+IC-590TB1-X2/=M9948+IC-590LC2-YS601	1		SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+IC-590TB1-X3/=M9948+IC-590LC3-YS602	1		ADOAH050VAS0025E05	IFM	IFM.EVT015
CBL=M9948+IC-590TB1-X3/=M9948+IC-590LC3-YS602	1		SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+IC-590TB1-X3/=M9948+IC-590LC4-YS605	1		ADOAH050VAS0025E05	IFM	IFM.EVT015
CBL=M9948+IC-590TB1-X3/=M9948+IC-590LC4-YS605	1		SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+JOG-2000XS1/=M9948+JOG-2000S1-E1	1		68887377	LAPP	LAPP.68887377
CBL=M9948+MP-149U1/=M9948+IC-149PWS1	15	CV04G250_8110S_GR 4AWG14+SCH	CONTROL TRAY CABLE 4G2,5+SCH	TEKIMA	TK.CV04G250_8110S_GR
CBL=M9948+MP-180U1/=M9948+SE-180MTR1-M001	20	CV04G400_8110S_GR 4AWG12+SCH	CONTROL TRAY CABLE 4G4+SCH	TEKIMA	TK.CV04G400_8110S_GR
CBL=M9948+MP-230U1/=M9948+PP-230PWS1	50	CV04G400_8110S_GR 4AWG12+SCH	CONTROL TRAY CABLE 4G4+SCH	TEKIMA	TK.CV04G400_8110S_GR
CBL=M9948+MP-249TP1/=M9948+MP-110U1	0				
CBL=M9948+MP-250PLC1/=M9948+MP-350PLC1	0				
CBL=M9948+MP-280PLC1/=M9948+FSK-1880SOL1	1		ADOGH050VAS0010E05	IFM	IFM.EVT011
CBL=M9948+MP-280PLC1/=M9948+FSK-1880SOL2	1		ADOGH050VAS0010E05	IFM	IFM.EVT011
CBL=M9948+MP-300PLC1/=M9948+MP-250PLC1	0				
CBL=M9948+MP-300PLC1/=M9948+MP-303U1	0				
CBL=M9948+MP-303U1/=M9948+FB-825XP1	1		2170 894	LAPP	LAPP.2170 894 (2x2x AWG22)
CBL=M9948+MP-303U1/=M9948+FB-825XP1	0				
CBL=M9948+MP-303U1/=M9948+FSK-1885PLC1	15		2170 894	LAPP	LAPP.2170 894 (2x2x AWG22)
CBL=M9948+MP-303U1/=M9948+MP-149U1	0				
CBL=M9948+MP-303U1/=M9948+MP-180U1	0				
CBL=M9948+MP-303U1/=M9948+MP-230U1	0				
CBL=M9948+MP-303U1/=M9948+MP-249TP1	1		2170 894	LAPP	LAPP.2170 894 (2x2x AWG22)
CBL=M9948+MP-303U1/=M9948+MP-309U1	0				
CBL=M9948+MP-359PLC1/=M9948+FSK-1880PRX1-ZS010-C 1			ADOGH050VAS0010E05	IFM	IFM.EVT011
CBL=M9948+MP-359PLC1/=M9948+FSK-1880PRX2-ZS010-C 1			ADOGH050VAS0010E05	IFM	IFM.EVT011
CBL=M9948+MP-365PLC1/=M9948+FSK-1881PRX1-ZS011-C 1			EVT005	IFM	IFM.EVT005

Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
CBL=M9948+MP-365PLC1/=M9948+FSK-1881PRX2-ZS014-C 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-365PLC1/=M9948+FSK-1881PRX3-ZS200-C 1			EVT006	IFM	IFM.EVT006
CBL=M9948+MP-375PLC1/=M9948+FB-784PRX4-ZS001 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-382PLC1/=M9948+FB-781PRX2-ZS204 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-382PLC1/=M9948+FB-784PRX5-ZS005 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-382PLC1/=M9948+FB-787PRX2-YS001 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-384PLC1/=M9948+FB-786PRX1-ZS254 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-384PLC1/=M9948+FB-786PRX1-ZS254 1			SSTGH050VASFKPG	IFM	IFM.E11859
CBL=M9948+MP-384PLC1/=M9948+FB-786PRX2-ZS255 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-384PLC1/=M9948+FB-786PRX2-ZS255 1			SSTGH050VASFKPG	IFM	IFM.E11859
CBL=M9948+MP-384PLC1/=M9948+SE-1382PRX1-ZS300 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-384PLC1/=M9948+SE-1382PRX2-YS303 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-384PLC1/=M9948+SE-1382PRX4-YS309 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-385PLC1/=M9948+SE-1385PRX1-YS305 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-386PLC1/=M9948+SE-1381PRX3-ZS371 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-386PLC1/=M9948+SE-1382PRX5-YS310 1			EVT005	IFM	IFM.EVT005
CBL=M9948+MP-445PLC1/=M9948+MP-460T1	1	UNITRONIC LiYCY 3X0,34	UNITRONIC® LiYCY	LAPP	LAPP.0034503
CBL=M9948+MP-445PLC1/=M9948+MP-462T1	1	UNITRONIC LiYCY 3X0,34	UNITRONIC® LiYCY	LAPP	LAPP.0034503
CBL=M9948+MP--309U1/=M9948+MP-311U1	0				
CBL=M9948+MP-TB1/=M9948+CB1S	1		SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+CB2S	1		SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+CB3S	1		SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+CB7S	1		SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+FSK-1883T1-PVC221 1			ADOGH050VAS0010G05	IFM	IFM.EVT391
CBL=M9948+MP-TB1/=M9948+FSK-1884SOL1-EV255-O 1			ADOGF030VAS0010E03	IFM	IFM.EVT124
CBL=M9948+MP-TB1/=M9948+FSK-1884SOL2-EV255-C 1			ADOGF030VAS0010E03	IFM	IFM.EVT124
CBL=M9948+MP-TB1/=M9948+FSK-1885PLC1	1		VDOGH040ZDS0020H04STGH040ZDS	IFM	IFM.E12429
CBL=M9948+MP-TB1/=M9948+HSD-2051BG1-X1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+HSD-2051BG1-X2 1		M12 - 5 terminals 25 m Pur	SAC-5P-25,0-600/M12FS HD	PXC	PXC.SAC-5P-25,0-600/M12FS HD
CBL=M9948+MP-TB1/=M9948+HSD-2052BG1-X1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+HSD-2052BG1-X2 1		M12 - 5 terminals 25 m Pur	SAC-5P-25,0-600/M12FS HD	PXC	PXC.SAC-5P-25,0-600/M12FS HD
CBL=M9948+MP-TB1/=M9948+HSD-2053BG1-X1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+HSD-2053BG1-X2 1		M12 - 5 terminals 25 m Pur	SAC-5P-25,0-600/M12FS HD	PXC	PXC.SAC-5P-25,0-600/M12FS HD
CBL=M9948+MP-TB1/=M9948+HSD-2054BG1-X1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+HSD-2054BG1-X2 1		M12 - 5 terminals 25 m Pur	SAC-5P-25,0-600/M12FS HD	PXC	PXC.SAC-5P-25,0-600/M12FS HD
CBL=M9948+MP-TB1/=M9948+HSD-2055BG1-X1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+HSD-2055BG1-X2 1		M12 - 5 terminals 25 m Pur	SAC-5P-25,0-600/M12FS HD	PXC	PXC.SAC-5P-25,0-600/M12FS HD
CBL=M9948+MP-TB1/=M9948+HSD-2070BG1 1			ADOAF040VAS0010E04	IFM	IFM.EVT140
CBL=M9948+MP-TB1/=M9948+HSD-2091HL1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+HSD-2092HL1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+IC-149PWS1 15		CV03G100_81100_GR 3AWG18	CONTROL TRAY CABLE 3G1	TEKIMA	TK.CV03G100_81100_GR
CBL=M9948+MP-TB1/=M9948+IC-590TB1 1			ADOAH080VAS0010E08	IFM	IFM.E12296
CBL=M9948+MP-TB1/=M9948+JOFG-2002XP1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+JOG-2001XP1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+JOG-2003XP1 1			SAC-8P-20,0-540/M12FS YE VA	PXC	PXC.SAC-8P-20,0-540/M12FS YE VA
CBL=M9948+MP-TB1/=M9948+PP-230PWS1 50		CV03G100_81100_GR 3AWG18	CONTROL TRAY CABLE 3G1	TEKIMA	TK.CV03G100_81100_GR
CBL=M9948+MP-TB1/=M9948+PP-232PRX1-LS200 50		CV04G100_81100_GR 4AWG18	CONTROL TRAY CABLE 4G1	TEKIMA	TK.CV04G100_81100_GR
CBL=M9948+MP-TB1/=M9948+SE-1380PRX1-ZSS003 1			ADOGH040VAS0010G04	IFM	IFM.EVT383
CBL=M9948+MP-TB1/=M9948+SE-1380PRX2-ZSS004 1			ADOGH040VAS0010G04	IFM	IFM.EVT383
CBL=M9948+MP-TB1/=M9948+SE-1390SOL1-EV300 1		CV03G100_81100_GR 3AWG18	CONTROL TRAY CABLE 3G1	TEKIMA	TK.CV03G100_81100_GR
CBL=M9948+MP-TB1/=M9948+SE-1390SOL1-EV300 1			SSTGH050VASFKPG	IFM	IFM.E11859
CBL=M9948+MP-TB5/=M9948+SE-TB186 20		CV03G250_81100_GR 3AWG14	CONTROL TRAY CABLE 3G2,5	TEKIMA	TK.CV03G250_81100_GR
CBL=M9948+MP-TB9/=CIP+MP-X 0		CV25G100_81100_GR 25AWG18	CONTROL TRAY CABLE 25G1	TEKIMA	TK.CV25G100_81100_GR
CBL=M9948+MP-TB9/=IC+MP-X 0		CV18G100_8110S_GR 18AWG18+SCH	CONTROL TRAY CABLE 18G1+SCH	TEKIMA	TK.CV18G100_8110S_GR
CBL=M9948+MP-TB9/=IW+MP-X 0		CV12G100_81100_GR 12AWG18	CONTROL TRAY CABLE 12G1	TEKIMA	TK.CV12G100_81100_GR
CBL=M9948+MP-TB9/=LC+MP-X 0		CV12G100_81100_GR 12AWG18	CONTROL TRAY CABLE 12G1	TEKIMA	TK.CV12G100_81100_GR

Parts list

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Device tag	Quantity	Designation	Type number	Supplier	Part number
CBL=M9948+MP-TB9/=OC+MP-X	0	CV18G100_8110S_GR 18AWG18+SCH	CONTROL TRAY CABLE 18G1+SCH	TEKIMA	TK.CV18G100_8110S_GR
CBL=M9948+MP-TB9/=PD+MP-X	0	CV12G100_8110S_GR 12AWG18+SCH	CONTROL TRAY CABLE 12G1+SCH	TEKIMA	TK.CV12G100_8110S_GR
CBL=M9948+MP-TB24/=M9948+FB-825XP1	0				
CBL=M9948+MP-TB24/=M9948+MP-111HL1	1		ADOGH050VAS0010E05	IFM	IFM.EVT011
CBL=M9948+OC-1600TB1-X1/=M9948+OC-1600LC1-YS610	1		ADOAH050VAS0025E05	IFM	IFM.EVT015
CBL=M9948+OC-1600TB1-X1/=M9948+OC-1600LC1-YS610	1		SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+OC-1600TB1-X2/=M9948+OC-1600LC2-YS613	1		ADOAH050VAS0025E05	IFM	IFM.EVT015
CBL=M9948+OC-1600TB1-X2/=M9948+OC-1600LC2-YS613	1		SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+OC-1600TB1-X3/=M9948+OC-1600LC3-YS611	1		ADOAH050VAS0025E05	IFM	IFM.EVT015
CBL=M9948+OC-1600TB1-X3/=M9948+OC-1600LC3-YS611	1		SSTGH050VASFKPG	IFM	IFM.EVF571
CBL=M9948+OC-1600TB1/=M9948+MP-387PLC1	1		ADOAH080VAS0010E08	IFM	IFM.E12296
CBL=M9948+PP-230PWS1/=M9948+PP-230MTR1-P200	2	CV04G400_8110S_GR 4AWG12+SCH	CONTROL TRAY CABLE 4G4+SCH	TEKIMA	TK.CV04G400_8110S_GR
CBL=M9948+SE-TB186/=M9948+SE-186MTR1-M300	2	CV03G250_81100_GR 3AWG14	CONTROL TRAY CABLE 3G2,5	TEKIMA	TK.CV03G250_81100_GR
=M9948+MP	1		TK.LB.W0120.AEC	TEKIMA	TEK.TK.LB.W0120.AEC
=M9948+MP	1		TK.LB.W0030.AEC	TEKIMA	TEK.TK.LB.W0030.AEC
=M9948+MP	1		TK.LB.W0080.AEC	TEKIMA	TEK.TK.LB.W0080.AEC
=M9948+MP	1		TK.LB.W0030.AFC	TEKIMA	TEK.TK.LB.W0030.AFC
=M9948+MP	1		TK.LB.W0120.AFC	TEKIMA	TEK.TK.LB.W0120.AFC
=M9948+MP	1		TK.LB.W0080.AFC	TEKIMA	TEK.TK.LB.W0080.AFC
=M9948+MP	0				
=M9948+MP	1		TK.LB.D0010.AEC	TEKIMA	TEK.TK.LB.D0010.AEC
=M9948+MP	1		TK.LB.D0010.AFC	TEKIMA	TEK.TK.LB.D0010.AFC
=M9948+MP	1		TK.LB.W0130.AEC	TEKIMA	TEK.TK.LB.W0130.AEC
=M9948+MP	1		TK.LB.W0130.AFC	TEKIMA	TEK.TK.LB.W0130.AFC
=M9948+MP	1		ILINOX.2-3550093	ILINOX	ILINOX.2-3550093
=M9948+MP	3		48241.200	ICOTEK	ICO.48241.200
=M9948+MP	1	rubber grommet ,diameter 8-9 mm,KT8	41208	ICOTEK	ICO.41208
=M9948+MP	2		41210	ICOTEK	ICO.41210
=M9948+MP	2		41211	ICOTEK	ICO.41211
=M9948+MP	1		41212	ICOTEK	ICO.41212
=M9948+MP	9	Gray rubber cap, BTK	41251	ICOTEK	ICO.41251
=M9948+MP	8		39909	ICOTEK	ICO.39909
=M9948+MP	2		39908	ICOTEK	ICO.39908
=M9948+MP	5		41201	ICOTEK	ICO.41201
=M9948+MP	4	rubber grommet ,diameter 9-10 mm,KT9	41209	ICOTEK	ICO.41209
=M9948+MP	1		42024	ICOTEK	ICO.42024
=M9948+MP	2		51515	ICOTEK	ICO.51515
=M9948+MP-100A1	1		KITCONSUMO00007	VAL.FE.R.	VAL.KITCONSUMO00007
=M9948+MP-250ARM1	1		1734-ARM	A-B	A-B.1734-ARM
=M9948+MP-250ARM1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-350ARM1	1		1734-ARM	A-B	A-B.1734-ARM
=M9948+MP-350ARM1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-351ARM1	1		1734-ARM	A-B	A-B.1734-ARM
=M9948+MP-351ARM1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-351ARM2	1		1734-ARM	A-B	A-B.1734-ARM
=M9948+MP-351ARM2	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-103CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M3D030
=M9948+MP-103CB2	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C200
=M9948+MP-104CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-104CB1	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-104CB2	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-104CB2	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-104CB3	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-104CB3	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-104CB4	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-104CB4	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3

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Device tag	Quantity	Designation	Type number	Supplier	Part number
=M9948+MP-104CB5	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-104CB5	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-104CB6	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-104CB6	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-104CB7	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-104CB7	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-104CB8	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-104CB8	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-105CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M2D040
=M9948+MP-105CB1	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-105CB2	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C130
=M9948+MP-105CB2	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-108CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M3D100
=M9948+MP-108CB1	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-110CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C030
=M9948+MP-110CB1	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-112CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C010
=M9948+MP-112CB1	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-118CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C060
=M9948+MP-186CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1D010
=M9948+MP-186CB1	1	Auxiliary contact module	1489	A-B	A-B.1489-AMRA3
=M9948+MP-311CB1	1	Miniature Circuit Breaker	1489	A-B	A-B.1489-M1C020
=M9948+MP-280CON1	1	IEC Safety Contactor	100S-C30EJ32C	A-B	A-B.100S-C30EJ32C
=M9948+MP-280CON1	1	VARISTOR , 12-55VAC / 12-77VDC	100-FSV55	A-B	A-B.100-FSV55
=M9948+MP-280CON2	1	IEC Safety Contactor	100S-C30EJ32C	A-B	A-B.100S-C30EJ32C
=M9948+MP-280CON2	1	VARISTOR , 12-55VAC / 12-77VDC	100-FSV55	A-B	A-B.100-FSV55
=M9948+MP-288CON3	1	IEC contactor, 9A DC 1NO	100-C09EJ10	A-B	A-B.100-C09EJ10
=M9948+MP-288CON3	1	VARISTOR , 12-55VAC / 12-77VDC	100-FSV55	A-B	A-B.100-FSV55
=M9948+MP-281CR1	1	Coupling relay	PSR-PC40-2NO-1DO-24DC-SC	PXC	PXC.2700588
=M9948+MP-284CR1	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-414CR1	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-414CR2	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-414CR4	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-415CR1	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-415CR4	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-416CR1	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-416CR2	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-416CR3	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-416CR4	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-417CR1	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-417CR2	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-417CR3	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-417CR4	1	Relay Module	PLC-RPT- 24DC/21	PXC	PXC.2900299
=M9948+MP-100DSC1	1	H-Frame Molded Case Circuit Breaker	140G	A-B	A-B.140G-H2C3-C32
=M9948+MP-100DSC1	1	Rotary Variable Depth Operators with Internal NFPA 79 Operating Handle	140G	A-B	A-B.140G-H-RVM12B
=M9948+MP-100DSC1	1		140G	A-B	A-B.140G-H-TC3H
=M9948+MP-100DSC1	1	NFPA 79 Internal Operating Handle with Shaft, 535mm	194R-N2	A-B	A-B.194R-N2
=M9948+MP-100DSC1	1	Auxiliary Contact	140G	A-B	A-B.140G-G-EA1J
=M9948+MP-100DSC1	1	TS Operating mechanism, for door-locking of bayed enclosure combinations	TS.4912000	RIT	RIT.4912000
=M9948+MP-100DSC1	1	TS Adjacent door latch, for door-locking of bayed enclosure combinations	TS.4911000	RIT	RIT.4911000
=M9948+MP-100DSC1	1	TS Interconnecting rod, for door-locking of bayed enclosure combinations	TS.4918000	RIT	RIT.4918000
=M9948+MP-104HL1	1		3SU1061-0JD70-0AA0	SIE	SIE.3SU1061-0JD70-0AA0
=M9948+MP-104HL1	1	HOLDER	3SU1550-0AA10-0AA0	SIE	SIE.3SU1550-0AA10-0AA0
=M9948+MP-104HL1	1	LED MODULE, WHITE	3SU1401-1BB60-1AA0	SIE	SIE.3SU1401-1BB60-1AA0
=M9948+MP-111HL1	1		WLB32C285MQ	BANNER	BAN.WLB32C285MQ
=M9948+MP-149MOL1	1	Motor Protection Circuit Breaker	140M-C2E-B40	A-B	A-B.140M-C2E-B40

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Device tag	Quantity	Designation	Type number	Supplier	Part number
=M9948+MP-149MOL1	1	Auxiliary Contact Block	140M-C-AFA11	A-B	A-B.140M-C-AFA11
=M9948+MP-149MOL1	1		140M-C-TE1	A-B	A-B.140M-C-TE1
=M9948+MP-180MOL1	1	Circuit breaker	140M-C2E-C20	A-B	A-B.140M-C2E-C20
=M9948+MP-180MOL1	1	Auxiliary Contact Block	140M-C-AFA11	A-B	A-B.140M-C-AFA11
=M9948+MP-180MOL1	1		140M-C-TE1	A-B	A-B.140M-C-TE1
=M9948+MP-230MOL1	1	Motor Protection Circuit Breaker	140M-C2E-C16	A-B	A-B.140M-C2E-C16
=M9948+MP-230MOL1	1	Auxiliary Contact Block	140M-C-AFA11	A-B	A-B.140M-C-AFA11
=M9948+MP-230MOL1	1		140M-C-TE1	A-B	A-B.140M-C-TE1
=M9948+MP-112MTR1	1		SK.3243110	RIT	RIT.3243110
=M9948+MP-112MTR1	1		SK.3243200	RIT	RIT.3243200
=M9948+MP-112MTR1	1		SK.3183100	RIT	RIT.3183.100
=M9948+MP-112MTR1	2	SK Hose-proof hood, for fan-and-filter units, and outlet filters SK 3243/3244	SK.3243080	RIT	RIT.3243080
=M9948+MP-250PLC1	1	Point I/O Ethernet Adapter Module	1734	A-B	A-B.1734-AENTR
=M9948+MP-250PLC1	1		RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000200
=M9948+MP-260PLC1	1	POINT Guard I/O Safety Module	1734	A-B	A-B.1734-IB8S
=M9948+MP-260PLC1	2	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-270PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-270PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-272PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-272PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-273PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-273PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-280PLC1	1	Safety module POINT Guard I/O	1734	A-B	A-B.1734-OB8S
=M9948+MP-280PLC1	2	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-284PLC1	1	Digital output module (transistor)	1734-OB8E	A-B	A-B.1734-OB8E
=M9948+MP-284PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-288PLC1	1	Digital output module (transistor)	1734-OB8E	A-B	A-B.1734-OB8E
=M9948+MP-288PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-300PLC1	1		5069-L320ERS2	A-B	A-B.5069-L320ERS2
=M9948+MP-300PLC1	1	Power terminal	5069	A-B	A-B.5069-RTB64-SPRING
=M9948+MP-300PLC1	2		RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000100
=M9948+MP-350PLC1	1	Point I/O Ethernet Adapter Module	1734	A-B	A-B.1734-AENTR
=M9948+MP-350PLC1	1		RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000200
=M9948+MP-355PLC1	1	POINT Guard I/O Safety Module	1734	A-B	A-B.1734-IB8S
=M9948+MP-355PLC1	2	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-356PLC1	1	POINT Guard I/O Safety Module	1734	A-B	A-B.1734-IB8S
=M9948+MP-356PLC1	2	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-357PLC1	1	POINT Guard I/O Safety Module	1734	A-B	A-B.1734-IB8S
=M9948+MP-357PLC1	2	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-358PLC1	1	POINT Guard I/O Safety Module	1734	A-B	A-B.1734-IB8S
=M9948+MP-358PLC1	2	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-359PLC1	1	POINT Guard I/O Safety Module	1734	A-B	A-B.1734-IB8S
=M9948+MP-359PLC1	2	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-367PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-367PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-370PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-370PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-371PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-371PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-375PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-375PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-383PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-383PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-384PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-384PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-385PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8

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Device tag	Quantity	Designation	Type number	Supplier	Part number
=M9948+MP-385PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-386PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-386PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-388PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-388PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-390PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-390PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-392PLC1	1	Digital input module	1734-IB8	A-B	A-B.1734-IB8
=M9948+MP-392PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-397PLC1	1	Safety module POINT Guard I/O	1734	A-B	A-B.1734-OB8S
=M9948+MP-397PLC1	2	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-414PLC1	1	Digital output module (transistor)	1734-OB8E	A-B	A-B.1734-OB8E
=M9948+MP-414PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-416PLC1	1	Digital output module (transistor)	1734-OB8E	A-B	A-B.1734-OB8E
=M9948+MP-416PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-430PLC1	1	Digital output module (transistor)	1734-OB8E	A-B	A-B.1734-OB8E
=M9948+MP-430PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-434PLC1	1	Digital output module (transistor)	1734-OB8E	A-B	A-B.1734-OB8E
=M9948+MP-434PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-445PLC1	1	Point IO Analog Output Module	1734	A-B	A-B.1734-OE4C
=M9948+MP-445PLC1	1	Modules support breadboard	1734-TOPS	A-B	A-B.1734-TOPS
=M9948+MP-103PWS1	1	Emparro 20-3x324-572/24	Emparro 20-3x324-572/24	MURR	MURR.85692
=M9948+MP-250PWS1	1	POINT I/O field power supply	1734-FPD	A-B	A-B.1734-FPD
=M9948+MP-350PWS1	1	POINT I/O field power supply	1734-FPD	A-B	A-B.1734-FPD
=M9948+MP-350PWS2	1		1734-EP24DC	A-B	A-B.1734-EP24DC
=M9948+MP-180RES1	1		AK-R2-120P1K2	A-B	A-B.AK-R2120P1K2
=M9948+MP-245S1	1		3SU1050-1HB20-0AA0	SIE	SIE.3SU1050-1HB20-0AA0
=M9948+MP-245S1	1	HOLDER	3SU1550-0AA10-0AA0	SIE	SIE.3SU1550-0AA10-0AA0
=M9948+MP-245S1	1		3SU1400-1AA10-1BA0	SIE	SIE.3SU1400-1AA10-1BA0
=M9948+MP-245S1	2	CONTACT MODULE 1NC	3SU1400-1AA10-1CA0	SIE	SIE.3SU1400-1AA10-1CA0
=M9948+MP-245S1	1		3SU1900-0BC31-0DA0	SIE	SIE.3SU1900-0BC31-0DA0
=M9948+MP-245S2	1		3SU1060-4LF11-0AA0	SIE	SIE.3SU1060-4LF11-0AA0
=M9948+MP-245S2	1	HOLDER	3SU1550-0AA10-0AA0	SIE	SIE.3SU1550-0AA10-0AA0
=M9948+MP-245S2	2		3SU1400-1AA10-1BA0	SIE	SIE.3SU1400-1AA10-1BA0
=M9948+MP-246S1	1		3SU1062-2DL10-0AA0	SIE	SIE.3SU1062-2DL10-0AA0
=M9948+MP-246S1	1	HOLDER	3SU1550-0AA10-0AA0	SIE	SIE.3SU1550-0AA10-0AA0
=M9948+MP-246S1	2		3SU1400-1AA10-1BA0	SIE	SIE.3SU1400-1AA10-1BA0
=M9948+MP-247S1	1	ILLUMINATED PUSHBUTTON, CLEAR	3SU1061-0JB70-0AA0	SIE	SIE.3SU1061-0JB70-0AA0
=M9948+MP-247S1	1	HOLDER	3SU1550-0AA10-0AA0	SIE	SIE.3SU1550-0AA10-0AA0
=M9948+MP-247S1	1		3SU1400-1AA10-1BA0	SIE	SIE.3SU1400-1AA10-1BA0
=M9948+MP-247S1	1	LED MODULE, WHITE	3SU1401-1BB60-1AA0	SIE	SIE.3SU1401-1BB60-1AA0
=M9948+MP-247S2	1	PUSHBUTTON, BLACK	3SU1060-0JB10-0AA0	SIE	SIE.3SU1060-0JB10-0AA0
=M9948+MP-247S2	1	HOLDER	3SU1550-0AA10-0AA0	SIE	SIE.3SU1550-0AA10-0AA0
=M9948+MP-247S2	1	CONTACT MODULE 1NC	3SU1400-1AA10-1CA0	SIE	SIE.3SU1400-1AA10-1CA0
=M9948+MP-247S3	1	ILLUMINATED PUSHBUTTON, BLUE	3SU1061-0JB50-0AA0	SIE	SIE.3SU1061-0JB50-0AA0
=M9948+MP-247S3	1	HOLDER	3SU1550-0AA10-0AA0	SIE	SIE.3SU1550-0AA10-0AA0
=M9948+MP-247S3	2		3SU1400-1AA10-1BA0	SIE	SIE.3SU1400-1AA10-1BA0
=M9948+MP-247S3	1	LED MODULE, BLUE	3SU1401-1BB50-1AA0	SIE	SIE.3SU1401-1BB50-1AA0
=M9948+MP-460T1	1	Signal converter/insulator	MAZ DC/DC select	WEI	WEI.8594840000
=M9948+MP-462T1	1	Signal converter/insulator	MAZ DC/DC select	WEI	WEI.8594840000
=M9948+MP-102TB1	1		569030	ERICO	ERI.569030
=M9948+MP-102TB2	1		569030	ERICO	ERI.569030
=M9948+MP-102TB3	1		569030	ERICO	ERI.569030
=M9948+MP-102TB11	1		569030	ERICO	ERI.569030
=M9948+MP-102TB11	1		569150	ERICO	ERI.569150
=M9948+MP-102TB12	1		569030	ERICO	ERI.569030

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Device tag	Quantity	Designation	Type number	Supplier	Part number
=M9948+MP-102TB12	1		569150	ERICO	ERI.569150
=M9948+MP-102TB13	1		569030	ERICO	ERI.569030
=M9948+MP-102TB13	1		569150	ERICO	ERI.569150
=M9948+MP-108TB1	1		569020	ERICO	ERI.569020
=M9948+MP-108TB2	1		569020	ERICO	ERI.569020
=M9948+MP-108TB3	1		569020	ERICO	ERI.569020
=M9948+MP-105TL1	1	MST Single phase control and isolation transformer	MST 1000-208...550/2x115	MURR	MURR.86151
=M9948+MP-249TP1	1		2711P-T10C22D9P	A-B	A-B.2711P-T10C22D9P
=M9948+MP-249TP1	2	SIMATIC NET IE FC RJ45 PLUG 180 RJ45 metal casing	6GK1901-1BB10-2AA0	SIE	SIE.6GK1901-1BB10-2AA0
=M9948+MP-249TP1	1		RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000030
=M9948+MP-249TP1	1			SANDISK	SD.SDHC 4G
=M9948+MP-112TS1	1		17121000000	Pfannenbergl	PFA.17121000000
=M9948+MP-110U1	1	Modlink MSDD combi insert double USA 2xNEMA 5-15	4000-68000-4110000	MURR	MURR.4000-68000-4110000
=M9948+MP-110U1	1	Modlink MSDD frame double transparent	4000-68522-0000001	MURR	MURR.4000-68522-0000001
=M9948+MP-110U1	1		RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000200
=M9948+MP-149U1	1	PowerFlex525 - 380-480V AC, 2.3A, 0,75kW	25B-D2P3N114	A-B	A-B.25B-D2P3N114
=M9948+MP-149U1	1	RJ45 mas. Ethernet PVC 2x2xAWG22 schielded green UL/CSA 1,5m	RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000150
=M9948+MP-149U1	1	Plate	25	A-B	A-B.25-EMC1-FA
=M9948+MP-180U1	1		PF525	A-B	A-B.25B-D013N114
=M9948+MP-180U1	1	RJ45 mas. Ethernet PVC 2x2xAWG22 schielded green UL/CSA 1,5m	RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000150
=M9948+MP-180U1	1	Plate	25	A-B	A-B.25-EMC1-FC
=M9948+MP-230U1	1		PF525	A-B	A-B.25B-D010N114
=M9948+MP-230U1	1	RJ45 mas. Ethernet PVC 2x2xAWG22 schielded green UL/CSA 1,5m	RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000150
=M9948+MP-230U1	1	Plate	25	A-B	A-B.25-EMC1-FB
=M9948+MP-303U1	1	Industrial Ethernet Switch	1783	A-B	A-B.1783-US8T
=M9948+MP-303U1	1		RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000100
=M9948+MP-303U1	2	SIMATIC NET IE FC RJ45 PLUG 180 RJ45 metal casing	6GK1901-1BB10-2AA0	SIE	SIE.6GK1901-1BB10-2AA0
=M9948+MP-309U1	1	EtherNet/IP Tap	1783	A-B	A-B.1783-NATR
=M9948+MP-309U1	1	SIMATIC NET IE FC RJ45 PLUG 180 RJ45 metal casing	6GK1901-1BB10-2AA0	SIE	SIE.6GK1901-1BB10-2AA0
=M9948+MP-309U1	1		RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000060
=M9948+MP-311U1	0		ASA5505-50-BUN-K9	CISCO	CISCO.ASA5505-50-BUN-K9
=M9948+MP-311U1	1		RJ45 mas. 0°/RJ45 mas. 0° sch. Ethernet	MURR	MURR.7000-74301-8000250
=M9948+IC-590LC1-YS600	0		VL180-2P42431	SICK	SICK.6041819
=M9948+IC-590LC2-YS601	0		VL180-2P42431	SICK	SICK.6041819
=M9948+IC-590LC3-YS602	0		VL180-2P42431	SICK	SICK.6041819
=M9948+IC-590LC4-YS605	0		VL180-2P42431	SICK	SICK.6041819
=M9948+IC-149MTR1-M600	0				
=M9948+IC-149PWS1	1		207150	MOE	MOE.T0-2-15679/I1/SVB-SW
=M9948+IC-590TB1	1		8000-84470-0000000	MURR	MURR.8000-84470-0000000
=M9948+IC-590TB1	1	M12 protection cap (10pc)	E73004	IFM	IFM.E73004
=M9948+FB-781PRX2-ZS204	0		IGB3008BBPKG/M/V4A/US-104-DPS	IFM	IFM.IGT203
=M9948+FB-784PRX4-ZS001	0		IGB3008BBPKG/M/V4A/US-104-DPS	IFM	IFM.IGT203
=M9948+FB-784PRX5-ZS005	0	Inductive sensor M12 x 1	IFB3004BBPKG/M/V4A/US-104-DPS	IFM	IFM.IFT203
=M9948+FB-786PRX1-ZS254	0				
=M9948+FB-786PRX2-ZS255	0				
=M9948+FB-787PRX2-YS001	0		IIT205	IFM	IFM.IIT205
=M9948+FB-825XP1	0				
=M9948+JB2FR-870SOL1	0				
=M9948+JB3FR-871SOL1	0				
=M9948+FR-956BL1-LT220	0	Electronic level sensor, DC PNP/NPN	LR0000B-EA01AKSKG/US	IFM	IFM.LR2750
=M9948+FR-956BP1-PT221	0	Combined pressure sensor	PI-010-REA01-MFRKG/US/ /P	IFM	IFM.PI2794
=M9948+FR-956BT1-TT222	0		TD-300CFED06-A-ZVG/US	IFM	IFM.TD2271
=M9948+FR-885PLC1	1	IO-Link Master EtherNet/IP 8 ports IP 67	AL1020	IFM	IFM.AL1020
=M9948+FR-885PLC1	4	M12 protection cap (10pc)	E73004	IFM	IFM.E73004
=M9948+FR-885PLC1	2	Connector IE FC M12 PLUG PRO 2X2 M12 for Scalance X208 PRO e ET200 PRO PN	6GK1901-0DB20-6AA0	SIE	SIE.6GK1901-0DB20-6AA0
=M9948+FR-885PLC1	1		SDOGH040ZDSFKP	IFM	IFM.E12499

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Device tag	Quantity	Designation	Type number	Supplier	Part number
=M9948+SE-180MTR1-M001	0				
=M9948+SE-186MTR1-M300	0				
=M9948+SE-1380PRX1-ZSS003	0		IGKC008BASKG/M/V4A/US-104-DRS	IFM	IFM.IGT205
=M9948+SE-1380PRX2-ZSS004	0		IGKC008BASKG/M/V4A/US-104-DRS	IFM	IFM.IGT205
=M9948+SE-1381PRX3-ZS371	0		IGKC008BASKG/M/V4A/US-104-DRS	IFM	IFM.IGT205
=M9948+SE-1382PRX1-ZS300	0		IGKC008BASKG/M/V4A/US-104-DRS	IFM	IFM.IGT205
=M9948+SE-1382PRX2-YS303	0		IIK3010-BPKG/AM/US-104-DPS	IFM	IFM.IIT228
=M9948+SE-1382PRX4-YS309	0		IGKC008BASKG/M/V4A/US-104-DRS	IFM	IFM.IGT205
=M9948+SE-1382PRX5-YS310	0		IGKC008BASKG/M/V4A/US-104-DRS	IFM	IFM.IGT205
=M9948+SE-1385PRX1-YS305	0		IIK3010-BPKG/AM/US-104-DPS	IFM	IFM.IIT228
=M9948+SE-1390SOL1-EV300	0	Solenoid valve	MOFH-3-1/2	FESTO	FES.7884
=M9948+SE-TB186	1	Male connector HIRSCHMANN - CA3	932 365-100	HIR	HIR.CA3 LS 09 ZS
=M9948+SE-TB186	1	Female connector HIRSCHMANN - CA3	932 362-100	HIR	HIR.CA3 LD 09 ZS
=M9948+SE-TB186	1	HIRSCHMANN CONNECTOR CAP - CA3	831 530-100	HIR	HIR.CA 00 SD1
=M9948+OC-1600LC1-YS610	0		VL180-2P42431	SICK	SICK.6041819
=M9948+OC-1600LC2-YS613	0		VL180-2P42431	SICK	SICK.6041819
=M9948+OC-1600LC3-YS611	0		VL180-2P42431	SICK	SICK.6041819
=M9948+OC-1600TB1	1		8000-84470-0000000	MURR	MURR.8000-84470-0000000
=M9948+OC-1600TB1	1	M12 protection cap (10pc)	E73004	IFM	IFM.E73004
=M9948+FSK-1887FT4-FT305	0	Flow rate meter for gases	SDR11DGXFPKG/US-100	IFM	IFM.SD8100
=M9948+FSK-1885PLC1	1	IO-Link Master EtherNet/IP 8 ports IP 67	AL1020	IFM	IFM.AL1020
=M9948+FSK-1885PLC1	4	M12 protection cap (10pc)	E73004	IFM	IFM.E73004
=M9948+FSK-1885PLC1	1	Connector IE FC M12 PLUG PRO 2X2 M12 for Scalance X208 PRO e ET200 PRO PN	6GK1901-0DB20-6AA0	SIE	SIE.6GK1901-0DB20-6AA0
=M9948+FSK-1880PRX1-ZS010-C	0				
=M9948+FSK-1880PRX2-ZS010-C	0				
=M9948+FSK-1881PRX1-ZS011-C	1		SACC-EC-MS-5CON-M16/0,5 SCO	PXC	PXC.1520068
=M9948+FSK-1881PRX2-ZS014-C	1		SACC-EC-MS-5CON-M16/0,5 SCO	PXC	PXC.1520068
=M9948+FSK-1881PRX3-ZS200-C	1		SACC-EC-MS-5CON-M16/0,5 SCO	PXC	PXC.1520068
=M9948+FSK-1886PT1-PS010	0				
=M9948+FSK-1886PT2-PS011	0				
=M9948+FSK-1886PT3-PS335	0				
=M9948+FSK-1886PT4-PS336	0				
=M9948+FSK-1880SOL1-EVS010	0				
=M9948+FSK-1880SOL2-EVS010	0				
=M9948+FSK-1884SOL1-EV255-O	0				
=M9948+FSK-1884SOL2-EV255-C	0				
=M9948+FSK-1887SOL1	0				
=M9948+FSK-1883T1-PCV221	0				
=M9948+PP-230MTR1-P200	0				
=M9948+PP-232PRX1-LS200	0				
=M9948+PP-230PWS1	1		207150	MOE	MOE.T0-2-15679/I1/SVB-SW
=M9948+JOG-2000S1	1	Pushbutton with 3 position Selector switch	ZSM4200-106104	Euchner	EUC.106104
=M9948+JOG-2001XP1	0		01NA055	MARECHAL	MAR.01NA055
=M9948+JOG-2001XP1	0		01P4070	MARECHAL	MAR.01P4070
=M9948+JOG-2001XP1	1		SACC-E-MS-8CON-M16/0,5 SCO	PXC	PXC.1523492
=M9948+JOG-2001XP1	1	Plastic reduction M20 male and M16 female	SKINDICHT KU-M 52104504	LAPP	LAPP.52104504
=M9948+JOG-2002XP1	0		01NA055	MARECHAL	MAR.01NA055
=M9948+JOG-2002XP1	0		01P4070	MARECHAL	MAR.01P4070
=M9948+JOG-2002XP1	1		SACC-E-MS-8CON-M16/0,5 SCO	PXC	PXC.1523492
=M9948+JOG-2002XP1	1	Plastic reduction M20 male and M16 female	SKINDICHT KU-M 52104504	LAPP	LAPP.52104504
=M9948+JOG-2003XP1	0		01NA055	MARECHAL	MAR.01NA055
=M9948+JOG-2003XP1	0		01P4070	MARECHAL	MAR.01P4070
=M9948+JOG-2003XP1	1		SACC-E-MS-8CON-M16/0,5 SCO	PXC	PXC.1523492
=M9948+JOG-2003XP1	1	Plastic reduction M20 male and M16 female	SKINDICHT KU-M 52104504	LAPP	LAPP.52104504
=M9948+JOG-2000XS1	1		01P8070	MARECHAL	MAR.01P8070
=M9948+JOG-2000XS1	1		01NA313	MARECHAL	MAR.01NA313

0	1	2	3	4	5	6	7	8	9
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Parts list

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[illegible]

PREVIOUS: 4007

NEXT: +CABLE/5000

			DATE	13/12/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	PARTS LIST	FILLER + SEAMER MBW RS10 + 2000/2	= REPORT	+ PART
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	4008

Cable overview

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Cable name	Source (from)	Target (to)	Cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	Function text
CBL=M9948+FB-825XP1/=M9948+FR-885PLC1	=M9948+FR-885PLC1	=M9948+FB-825XP1	ÖLFLEX VERDE	8	1	0,26		
CBL=M9948+FB-825XP1=M9948+FR-885PLC1-X31	=M9948+FB-825XP1				5			
		=M9948+FR-885PLC1						
CBL=M9948+FR-885PLC1-X01/=M9948+FR-956BL1-LT220	=M9948+FR-885PLC1	=M9948+FR-956BL1-LT220	PVC orange	PRE-WIRED	3		2	
CBL=M9948+FR-885PLC1-X02/=M9948+FR-956BP1-PT221	=M9948+FR-885PLC1	=M9948+FR-956BP1-PT221	PVC orange	5	3	0,34	2	
CBL=M9948+FR-885PLC1-X03/=M9948+FR-956BT1-TT222	=M9948+FR-885PLC1	=M9948+FR-956BT1-TT222	PVC orange	5	3	0,34	2	
CBL=M9948+FR-885PLC1-X05/=M9948+JB2FR-870SOL1	=M9948+JB2FR-870SOL1	=M9948+FR-885PLC1	PVC	5	5	0,34	10	
CBL=M9948+FR-885PLC1-X06/=M9948+JB3FR-871SOL1	=M9948+JB3FR-871SOL1	=M9948+FR-885PLC1	PVC	5	5	0,34	10	
CBL=M9948+FSK-1885PLC1-X01/=M9948+FSK-1886PT1-PS010	=M9948+FSK-1885PLC1	=M9948+FSK-1886PT1-PS010	PVC	5	3	0,34	5	
CBL=M9948+FSK-1885PLC1-X02/=M9948+FSK-1886PT2-PS011	=M9948+FSK-1885PLC1	=M9948+FSK-1886PT2-PS011	PVC	5	3	0,34	5	
CBL=M9948+FSK-1885PLC1-X03/=M9948+FSK-1886PT3-PS335	=M9948+FSK-1885PLC1	=M9948+FSK-1886PT3-PS335	PVC	5	3	0,34	5	
CBL=M9948+FSK-1885PLC1-X04/=M9948+FSK-1886PT4-PS336	=M9948+FSK-1885PLC1	=M9948+FSK-1886PT4-PS336	PVC	5	3	0,34	5	
CBL=M9948+FSK-1885PLC1-X05/=M9948+FSK-1887SOL1	=M9948+FSK-1885PLC1	=M9948+FSK-1887SOL1	PVC	5	5	0,34	10	
CBL=M9948+FSK-1885PLC1-X08/=M9948+FSK-1887FT4-FT305	=M9948+FSK-1885PLC1	=M9948+FSK-1887FT4-FT305	PVC	4	3	0,34	10	
CBL=M9948+IC-149PWS1/=M9948+IC-149MTR1-M600	=M9948+IC-149PWS1	=M9948+IC-149MTR1-M600	CONTROL TRAY CABLE	4	3	2,5		
CBL=M9948+IC-590TB1-X1/=M9948+IC-590LC1-YS600	=M9948+IC-590TB1-X1	=M9948+IC-590LC1-YS600	PVC	5	3	0,34	25	
CBL=M9948+IC-590TB1-X2/=M9948+IC-590LC2-YS601	=M9948+IC-590TB1-X2	=M9948+IC-590LC2-YS601	PVC	5	3	0,34		
CBL=M9948+IC-590TB1-X3/=M9948+IC-590LC3-YS602	=M9948+IC-590TB1-X3	=M9948+IC-590LC3-YS602	PVC	5	3	0,34		
CBL=M9948+IC-590TB1-X3/=M9948+IC-590LC4-YS605	=M9948+IC-590TB1-X4	=M9948+IC-590LC4-YS605	PVC	5	3	0,34		
CBL=M9948+JOG-2000XS1/=M9948+JOG-2000S1-E1	=M9948+JOG-2000XS1	=M9948+JOG-2000S1-E1	UNITRONIC® FD P plus	10	4	0,25		
		=M9948+JOG-2000S1-E2						
CBL=M9948+MP-149U1/=M9948+IC-149PWS1	=M9948+MP-149U1	=M9948+IC-149PWS1	CONTROL TRAY CABLE	4	5	2,5	15	
		=M9948+IC-149MTR1-M600						
		=M9948+IC-SH						
CBL=M9948+MP-180U1/=M9948+SE-180MTR1-M001	=M9948+MP-180U1	=M9948+SE-180MTR1-M001	CONTROL TRAY CABLE	4	5	4	20	
		=M9948+SE-SH						
CBL=M9948+MP-230U1/=M9948+PP-230PWS1	=M9948+MP-230U1	=M9948+PP-230PWS1	CONTROL TRAY CABLE	4	5	4	50	
		=M9948+PP-230MTR1-P200						
		=M9948+PP-SH						
CBL=M9948+MP-249TP1/=M9948+MP-110U1	=M9948+MP-249TP1	=M9948+MP-110U1	Profibus		1			
CBL=M9948+MP-250PLC1/=M9948+MP-350PLC1	=M9948+MP-350PLC1	=M9948+MP-250PLC1	Profibus		1			
CBL=M9948+MP-280PLC1/=M9948+FSK-1880SOL1		=M9948+FSK-1880SOL1-EVS010	PVC	5	2	0,34	10	
CBL=M9948+MP-280PLC1/=M9948+FSK-1880SOL2		=M9948+FSK-1880SOL2-EVS010	PVC	5	2	0,34	10	
CBL=M9948+MP-300PLC1/=M9948+MP-250PLC1	=M9948+MP-300PLC1	=M9948+MP-250PLC1	Profibus		1			
CBL=M9948+MP-300PLC1/=M9948+MP-303U1	=M9948+MP-303U1	=M9948+MP-300PLC1	Profibus		1			
CBL=M9948+MP-303U1/=M9948+FB-825XP1	=M9948+FB-825XP1	=M9948+MP-303U1	ÖLFLEX VERDE	8	1	0,26		
CBL=M9948+MP-303U1/=M9948+FSK-1885PLC1	=M9948+FSK-1885PLC1	=M9948+MP-303U1	ÖLFLEX VERDE	8	1	0,26		
CBL=M9948+MP-303U1/=M9948+MP-149U1	=M9948+MP-303U1	=M9948+MP-149U1	Profibus		1			
CBL=M9948+MP-303U1/=M9948+MP-180U1	=M9948+MP-303U1	=M9948+MP-180U1	Profibus		1			
CBL=M9948+MP-303U1/=M9948+MP-230U1	=M9948+MP-303U1	=M9948+MP-230U1	Profibus		1			
CBL=M9948+MP-303U1/=M9948+MP-249TP1	=M9948+MP-303U1	=M9948+MP-249TP1	ÖLFLEX VERDE	8	1	0,26		
CBL=M9948+MP-303U1/=M9948+MP-309U1	=M9948+MP-303U1		Profibus		1			
CBL=M9948+MP-359PLC1/=M9948+FSK-1880PRX1-ZS010-C	=M9948+MP-TB1	=M9948+FSK-1880PRX1-ZS010	PVC	5	3	0,34	10	
	=M9948+MP-359PLC1							
CBL=M9948+MP-359PLC1/=M9948+FSK-1880PRX2-ZS010-C	=M9948+MP-TB1	=M9948+FSK-1880PRX2-ZS010	PVC	5	3	0,34	10	
	=M9948+MP-359PLC1							

Cable overview

F10_005

Cable name	Source (from)	Target (to)	Cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	Function text
CBL=M9948+MP-365PLC1/=M9948+FSK-1881PRX1-ZS011-C	=M9948+MP-359PLC1	=M9948+FSK-1881PRX1-ZS011-C	PVC orange	PRE-WIRED	2		10	WATER VALVE FEEDBACK
CBL=M9948+MP-365PLC1/=M9948+FSK-1881PRX2-ZS014-C	=M9948+MP-359PLC1	=M9948+FSK-1881PRX2-ZS014-C	PVC orange	PRE-WIRED	2		10	=
CBL=M9948+MP-365PLC1/=M9948+FSK-1881PRX3-ZS200-C	=M9948+MP-TB1	=M9948+FSK-1881PRX3-ZS200-C	PVC orange	PRE-WIRED	3		25	=
	=M9948+MP-359PLC1							
CBL=M9948+MP-375PLC1/=M9948+FB-784PRX4-ZS001	=M9948+MP-TB1	=M9948+FB-784PRX4-ZS001	PVC orange	4	3	0,34	10	PHASE SENSOR PRODUCT DISTRIBUTION
	=M9948+MP-383PLC1							
CBL=M9948+MP-382PLC1/=M9948+FB-781PRX2-ZS204	=M9948+MP-TB1	=M9948+FB-781PRX2-ZS204	PVC orange	4	3	0,34	10	PHASE SENSOR PRODUCT DISTRIBUTION
	=M9948+MP-384PLC1							
CBL=M9948+MP-382PLC1/=M9948+FB-784PRX5-ZS005	=M9948+MP-TB1	=M9948+FB-784PRX5-ZS005	PVC orange	4	3	0,34	10	PHASE SENSOR PRODUCT DISTRIBUTION
	=M9948+MP-384PLC1							
CBL=M9948+MP-382PLC1/=M9948+FB-787PRX2-YS001	=M9948+MP-TB1	=M9948+FB-787PRX2-YS001	PVC orange	4	3	0,34	10	PHASE SENSOR PRODUCT DISTRIBUTION
	=M9948+MP-384PLC1							
CBL=M9948+MP-384PLC1/=M9948+FB-786PRX1-ZS254	=M9948+MP-TB1	=M9948+FB-786PRX1-ZS254	PVC orange	2	2	1,5	10	PRIMO CONTROLLO MARTINETTI
	=M9948+MP-384PLC1							
CBL=M9948+MP-384PLC1/=M9948+FB-786PRX2-ZS255	=M9948+MP-TB1	=M9948+FB-786PRX2-ZS255	PVC orange	2	2	1,5	10	SECONDO CONTROLLO MARTINETTI
	=M9948+MP-384PLC1							
CBL=M9948+MP-384PLC1/=M9948+SE-1382PRX1-ZS300	=M9948+MP-TB1	=M9948+SE-1382PRX1-ZS300	PVC orange	5	3	0,34		
	=M9948+MP-386PLC1							
CBL=M9948+MP-384PLC1/=M9948+SE-1382PRX2-YS303	=M9948+MP-TB1	=M9948+SE-1382PRX2-YS303	PVC orange	5	3	0,34		
	=M9948+MP-386PLC1							
CBL=M9948+MP-384PLC1/=M9948+SE-1382PRX4-YS309	=M9948+MP-TB1	=M9948+SE-1382PRX4-YS309	PVC orange	5	3	0,34		
	=M9948+MP-386PLC1							
CBL=M9948+MP-385PLC1/=M9948+SE-1385PRX1-YS305	=M9948+MP-TB1	=M9948+SE-1385PRX1-YS305	PVC orange	5	3	0,34		
	=M9948+MP-388PLC1							
CBL=M9948+MP-386PLC1/=M9948+SE-1381PRX3-ZS371	=M9948+MP-TB1	=M9948+SE-1381PRX3-ZS371	PVC orange	5	3	0,34		
	=M9948+MP-386PLC1							
CBL=M9948+MP-386PLC1/=M9948+SE-1382PRX5-YS310	=M9948+MP-TB1	=M9948+SE-1382PRX5-YS310	PVC orange	5	3	0,34		
	=M9948+MP-386PLC1							
CBL=M9948+MP-445PLC1/=M9948+MP-460T1	=M9948+MP-445PLC1	=M9948+MP-460T1	UNITRONIC® LiYCY	3	4	0,34		
	=M9948+MP-462T1							
CBL=M9948+MP-445PLC1/=M9948+MP-462T1			UNITRONIC® LiYCY	3	0	0,34		
CBL=M9948+MP--309U1/=M9948+MP-311U1	=M9948+MP-311U1		Profibus		1			
CBL=M9948+MP-TB1/=M9948+CB1S	=M9948+MP-TB1	=M9948+CB1S-2101S2	PVC Yellow	8	8	0,35		
	=M9948+MP-TBS1	=M9948+CB1S-2101S1						
	=M9948+MP-356PLC1							
	=M9948+MP-430PLC1							
CBL=M9948+MP-TB1/=M9948+CB2S	=M9948+MP-TB1	=M9948+CB2S-2102S2	PVC Yellow	8	8	0,35		
	=M9948+MP-TBS1	=M9948+CB2S-2102S1						
	=M9948+MP-357PLC1							
CBL=M9948+MP-TB1/=M9948+CB3S	=M9948+MP-TB1	=M9948+CB3S-2103S2	PVC Yellow	8	8	0,35		
	=M9948+MP-TBS1	=M9948+CB3S-2103S1						
	=M9948+MP-358PLC1							
CBL=M9948+MP-TB1/=M9948+CB7S	=M9948+MP-TB1	=M9948+CB7S-2107S2	PVC Yellow	8	8	0,35		

0	1	2	3	4	5	6	7	8	9
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Cable overview

F10_005

Cable name	Source (from)	Target (to)	Cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	Function text
	=M9948+MP-TBS1	=M9948+CB7S-2107S1						
	=M9948+MP-355PLC1							
	=M9948+MP-392PLC1							
CBL=M9948+MP-TB1/=M9948+FSK-1883T1-PVC221	=M9948+MP-TB1	=M9948+FSK-1883T1-PCV221PVC		5	5	0,25	10	
CBL=M9948+MP-TB1/=M9948+FSK-1884SOL1-EV255-O	=M9948+MP-TB1	=M9948+FSK-1884SOL1-EV255-O	PVC	3	1	0,34	10	PHASE SENSOR PRODUCT DISTRIBUTION
CBL=M9948+MP-TB1/=M9948+FSK-1884SOL2-EV255-C	=M9948+MP-TB1	=M9948+FSK-1884SOL2-EV255-C	PVC	3	1	0,34	10	=
CBL=M9948+MP-TB1/=M9948+FSK-1885PLC1	=M9948+MP-TB1	=M9948+FSK-1885PLC1	PUR	4	4	1,5	20	
CBL=M9948+MP-TB1/=M9948+HSD-2051BG1-X1	=M9948+MP-TB1	=M9948+HSD-2051BG1	PVC Yellow	8	7	0,35		Door 5
	=M9948+MP-356PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2051BG1-X2	=M9948+MP-TB1	=M9948+HSD-2051BG1		5	4	0,35	25	Door 5
	=M9948+MP-390PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2052BG1-X1	=M9948+MP-TB1	=M9948+HSD-2052BG1	PVC Yellow	8	7	0,35		Door 5
CBL=M9948+MP-TB1/=M9948+HSD-2052BG1-X2	=M9948+MP-TB1	=M9948+HSD-2052BG1		5	4	0,35	25	=
	=M9948+MP-390PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2053BG1-X1	=M9948+MP-TB1	=M9948+HSD-2053BG1	PVC Yellow	8	7	0,35		Door 5
	=M9948+MP-357PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2053BG1-X2	=M9948+MP-TB1	=M9948+HSD-2053BG1		5	4	0,35	25	Door 5
	=M9948+MP-390PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2054BG1-X1	=M9948+MP-TB1	=M9948+HSD-2054BG1	PVC Yellow	8	7	0,35		Door 5
CBL=M9948+MP-TB1/=M9948+HSD-2054BG1-X2	=M9948+MP-TB1	=M9948+HSD-2054BG1		5	4	0,35	25	=
	=M9948+MP-390PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2055BG1-X1	=M9948+MP-TB1	=M9948+HSD-2055BG1	PVC Yellow	8	7	0,35		Door 5
	=M9948+MP-358PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2055BG1-X2	=M9948+MP-TB1	=M9948+HSD-2055BG1		5	4	0,35	25	Door 5
	=M9948+MP-392PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2070BG1	=M9948+MP-TB1	=M9948+HSD-2070BG1	PVC	4	4	0,34	10	SEAMER HANDWHEEL
	=M9948+MP-359PLC1							
CBL=M9948+MP-TB1/=M9948+HSD-2091HL1	=M9948+MP-TB1	=M9948+HSD-2091HL1	PVC Yellow	8	6	0,35	25	
		=M9948+HSD-2091HL1-2091HL4						
		=M9948+HSD-2091HL1-2091HL3						
		=M9948+HSD-2091HL1-2091HL2						
		=M9948+HSD-2091HL1-2091HL5						
		=M9948+HSD-2091HL1-2091HS6						
CBL=M9948+MP-TB1/=M9948+HSD-2092HL1	=M9948+MP-TB1	=M9948+HSD-2092HL1	PVC Yellow	8	6	0,35	25	
		=M9948+HSD-2092HL1-2092HL4						
		=M9948+HSD-2092HL1-2092HL3						
		=M9948+HSD-2092HL1-2092HL2						
		=M9948+HSD-2092HL1-2092HL5						
		=M9948+HSD-2092HL1-2092HS6						
CBL=M9948+MP-TB1/=M9948+IC-149PWS1	=M9948+MP-TB1	=M9948+IC-149PWS1	CONTROL TRAY CABLE	3	2	1	15	
	=M9948+MP-367PLC1							
CBL=M9948+MP-TB1/=M9948+IC-590TB1	=M9948+IC-590TB1	=M9948+MP-383PLC1	PVC	8	6	0,25	10	
		=M9948+MP-TB1						
CBL=M9948+MP-TB1/=M9948+JOGF-2002XP1	=M9948+JOG-2002XP1	=M9948+MP-357PLC1	PVC Yellow	8	4	0,35		

PREVIOUS: 5001 NEXT: 5003

			DATE	20/11/2019	HOYNE BREWING CANADA 18A873	 CFT S.p.A Via Paradigna, 94/A 43122 - Parma - Italy +39 0521 277111	SUMMARY CABLES	FILLER + SEAMER MBW RS10 + 2000/2	= REPORT	+ CABLE
			ELAB.	G.Cagna						
			VER.	F.Tedeschi						
MODIFICATION	DATE	NAME	REV.	1	MODIFICATO DA: GCagna				6-6570277	5002

Cable overview

F10_005

Cable name	Source (from)	Target (to)	Cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	Function text
CBL=M9948+MP-TB1/=M9948+JOG-2001XP1	=M9948+JOG-2001XP1	=M9948+MP-356PLC1	PVC Yellow	8	4	0,35		
CBL=M9948+MP-TB1/=M9948+JOG-2003XP1	=M9948+JOG-2003XP1	=M9948+MP-358PLC1	PVC Yellow	8	4	0,35		
CBL=M9948+MP-TB1/=M9948+PP-230PWS1	=M9948+MP-TB1	=M9948+PP-230PWS1	CONTROL TRAY CABLE	3	2	1	50	
CBL=M9948+MP-TB1/=M9948+PP-232PRX1-LS200	=M9948+MP-TB1	=M9948+PP-232PRX1-LS200	CONTROL TRAY CABLE	4	3	1	50	PRODUCT PUMP SAFETY
CBL=M9948+MP-TB1/=M9948+SE-1380PRX1-ZSS003	=M9948+MP-TB1	=M9948+SE-1380PRX1-ZSS003	PVC	4	3	0,34		
CBL=M9948+MP-TB1/=M9948+SE-1380PRX2-ZSS004	=M9948+MP-TB1	=M9948+SE-1380PRX2-ZSS004	PVC	4	3	0,34		
CBL=M9948+MP-TB1/=M9948+SE-1390SOL1-EV300	=M9948+MP-TB1	=M9948+SE-1390SOL1-EV300	CONTROL TRAY CABLE	3	2	1		
CBL=M9948+MP-TB5/=M9948+SE-TB186	=M9948+MP-TB5	=M9948+SE-TB186	CONTROL TRAY CABLE	3	3	2,5	20	
CBL=M9948+MP-TB9/=CIP+MP-X	=M9948+MP-TB9	=CIP+MP-X	CONTROL TRAY CABLE	25	15	1		
	=M9948+MP-416CR4							
	=M9948+MP-417CR1							
	=M9948+MP-417CR2							
	=M9948+MP-417CR3							
	=M9948+MP-417CR4							
CBL=M9948+MP-TB9/=IC+MP-X	=M9948+MP-TB9	=IC+MP-X	CONTROL TRAY CABLE	12	9	1		
	=M9948+MP-414CR1							
	=M9948+MP-414CR2							
	=M9948+MP-460T1							
CBL=M9948+MP-TB9/=IW+MP-X	=M9948+MP-TB9	=IW+MP-X	CONTROL TRAY CABLE	12	5	1		
	=IC+MP-X	=M9948+MP-414CR2						
	=M9948+MP-416CR3							
CBL=M9948+MP-TB9/=LC+MP-X	=M9948+MP-TB9	=LC+MP-X	CONTROL TRAY CABLE	12	5	1		
	=M9948+MP-415CR4							
CBL=M9948+MP-TB9/=OC+MP-X	=M9948+MP-TB9	=OC+MP-X	CONTROL TRAY CABLE	12	9	1		
	=M9948+MP-414CR4							
	=M9948+MP-415CR1							
	=M9948+MP-462T1							
CBL=M9948+MP-TB9/=PD+MP-X	=M9948+MP-TB9	=PD+MP-X	CONTROL TRAY CABLE	12	8	1		
	=M9948+MP-416CR1							
	=M9948+MP-416CR2							
CBL=M9948+MP-TB24/=M9948+FB-825XP1	=M9948+MP-TB24	=M9948+FB-825XP1			5			
CBL=M9948+MP-TB24/=M9948+MP-111HL1	=M9948+MP-TB24	=M9948+MP-111HL1	PVC	5	2	0,34	10	
CBL=M9948+OC-1600TB1-X1/=M9948+OC-1600LC1-YS610	=M9948+OC-1600TB1-X1	=M9948+OC-1600LC1-YS610	PVC	5	4	0,34		
CBL=M9948+OC-1600TB1-X2/=M9948+OC-1600LC2-YS613	=M9948+OC-1600TB1-X2	=M9948+OC-1600LC2-YS613	PVC	5	4	0,34		
CBL=M9948+OC-1600TB1-X3/=M9948+OC-1600LC3-YS611	=M9948+OC-1600TB1-X3	=M9948+OC-1600LC3-YS611	PVC	5	4	0,34	25	
CBL=M9948+OC-1600TB1/=M9948+MP-387PLC1	=M9948+OC-1600TB1	=M9948+MP-388PLC1	PVC	8	5	0,25	10	
		=M9948+MP-TB1						
CBL=M9948+PP-230PWS1/=M9948+PP-230MTR1-P200	=M9948+PP-230PWS1	=M9948+PP-230MTR1-P200	CONTROL TRAY CABLE	4	3	4		
CBL=M9948+SE-TB186/=M9948+SE-186MTR1-M300	=M9948+SE-TB186	=M9948+SE-186MTR1-M300	CONTROL TRAY CABLE	3	3	2,5		

Cable diagram

F09_002

Cable nameCBL=M9948+FB-825XP1=M9948+FR-885PLC1-X31			Cable type					
Function text			No. of conductors			Cross-section		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+FB/825.3	=M9948+FB-825XP1		1	=M9948+FR-885PLC1	X31:1	=M9948+FR/885.1	
	=M9948+FB/825.4	=M9948+FB-825XP1		2	=M9948+FR-885PLC1	X31:2	=M9948+FR/885.1	
	=M9948+FB/825.4	=M9948+FB-825XP1		3	=M9948+FR-885PLC1	X31:3	=M9948+FR/885.2	
	=M9948+FB/825.4	=M9948+FB-825XP1		4	=M9948+FR-885PLC1	X31:4	=M9948+FR/885.2	
	=M9948+FB/825.3	=M9948+FB-825XP1		GNYE		-GND	=M9948+FB/825.3	

Cable diagram

F09_002

Cable nameCBL=M9948+JOG-2000XS1/=M9948+JOG-2000S1-E1			Cable typeUNITRONIC® FD P plus					
Function text			No. of conductors10		Cross-section0,25		Cable length	
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+JOG/2000.3	=M9948+JOG-2000XS1	1	WH	=M9948+JOG-2000S1-E1	11	=M9948+JOG/2000.3	
	=M9948+JOG/2000.3	=M9948+JOG-2000XS1	2	BN	=M9948+JOG-2000S1-E1	14	=M9948+JOG/2000.3	
	=M9948+JOG/2000.4	=M9948+JOG-2000XS1	3	GN	=M9948+JOG-2000S1-E2	21	=M9948+JOG/2000.4	
	=M9948+JOG/2000.4	=M9948+JOG-2000XS1	4	YE	=M9948+JOG-2000S1-E2	24	=M9948+JOG/2000.4	
				GY				
				PK				
				BU				
				RD				
				BK				
				VT				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2051BG1-X1			Cable typePVC Yellow					
Function textDoor 5			No. of conductors8		Cross-section0,35		Cable length	
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2051.6	=M9948+MP-TB1	104.05+	WH	=M9948+HSD-2051BG1	X1:1	=M9948+HSD/2051.6	
	=M9948+HSD/2051.5	=M9948+MP-TB1	104.05+	BN	=M9948+HSD-2051BG1	X1:2	=M9948+HSD/2051.5	
BLUE ZONE: SAFETY CARTERS CH1	=M9948+MP/356.3	=M9948+MP-356PLC1	2	GN	=M9948+HSD-2051BG1	X1:3	=M9948+HSD/2051.6	BLUE ZONE: SAFETY CARTERS CH1
BLUE ZONE: SAFETY CARTERS CH2	=M9948+MP/356.4	=M9948+MP-356PLC1	3	YE	=M9948+HSD-2051BG1	X1:4	=M9948+HSD/2051.6	BLUE ZONE: SAFETY CARTERS CH2
				GY				
	=M9948+HSD/2051.6	=M9948+MP-TB1	104.05+	PK	=M9948+HSD-2051BG1	X1:6	=M9948+HSD/2051.6	
	=M9948+HSD/2051.8	=M9948+MP-TB1	2051.05	BU	=M9948+HSD-2051BG1	X1:7	=M9948+HSD/2051.5	
	=M9948+HSD/2051.5	=M9948+MP-TB1	115.01	RD	=M9948+HSD-2051BG1	X1:8	=M9948+HSD/2051.5	

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2051BG1-X2			Cable type					
Function textDoor 5			No. of conductors5			Cross-section0,35		Cable length25
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2051.4	=M9948+MP-TB1	397.03	BN	=M9948+HSD-2051BG1	X2:1	=M9948+HSD/2051.4	
DOOR 01 OPENED	=M9948+MP/390.2	=M9948+MP-390PLC1	0	WH	=M9948+HSD-2051BG1	X2:2	=M9948+HSD/2051.4	DOOR 01 OPENED
DOOR 01 IN FAULT	=M9948+MP/390.3	=M9948+MP-390PLC1	1	BU	=M9948+HSD-2051BG1	X2:3	=M9948+HSD/2051.5	DOOR 01 IN FAULT
	=M9948+HSD/2051.2	=M9948+MP-TB1	397.01	BK	=M9948+HSD-2051BG1	X2:4	=M9948+HSD/2051.4	BLUE ZONE: CARTERS UNLOCK CMD
				GY				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2052BG1-X1			Cable typePVC Yellow					
Function textDoor 5			No. of conductors8		Cross-section0,35		Cable length	
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2052.6	=M9948+MP-TB1	104.05+	WH	=M9948+HSD-2052BG1	X1:1	=M9948+HSD/2052.6	
	=M9948+HSD/2052.5	=M9948+MP-TB1	104.05+	BN	=M9948+HSD-2052BG1	X1:2	=M9948+HSD/2052.5	
	=M9948+HSD/2053.6	=M9948+MP-TB1	2052.01	GN	=M9948+HSD-2052BG1	X1:3	=M9948+HSD/2052.6	
	=M9948+HSD/2053.6	=M9948+MP-TB1	2052.02	YE	=M9948+HSD-2052BG1	X1:4	=M9948+HSD/2052.6	
				GY				
	=M9948+HSD/2052.6	=M9948+MP-TB1	104.05+	PK	=M9948+HSD-2052BG1	X1:6	=M9948+HSD/2052.6	
	=M9948+HSD/2052.8	=M9948+MP-TB1	2051.05	BU	=M9948+HSD-2052BG1	X1:7	=M9948+HSD/2052.5	
	=M9948+HSD/2052.5	=M9948+MP-TB1	115.01	RD	=M9948+HSD-2052BG1	X1:8	=M9948+HSD/2052.5	

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2052BG1-X2			Cable type					
Function textDoor 5			No. of conductors5			Cross-section0,35		Cable length25
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2052.4	=M9948+MP-TB1	397.07	BN	=M9948+HSD-2052BG1	X2:1	=M9948+HSD/2052.4	
DOOR 02 OPENED	=M9948+MP/390.3	=M9948+MP-390PLC1	2	WH	=M9948+HSD-2052BG1	X2:2	=M9948+HSD/2052.4	DOOR 02 OPENED
DOOR 02 IN FAULT	=M9948+MP/390.4	=M9948+MP-390PLC1	3	BU	=M9948+HSD-2052BG1	X2:3	=M9948+HSD/2052.5	DOOR 02 IN FAULT
	=M9948+HSD/2052.2	=M9948+MP-TB1	397.05	BK	=M9948+HSD-2052BG1	X2:4	=M9948+HSD/2052.4	GREEN ZONE: CARTERS UNLOCK CMD
				GY				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2053BG1-X1			Cable typePVC Yellow					
Function textDoor 5			No. of conductors8		Cross-section0,35		Cable length	
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2053.6	=M9948+MP-TB1	2052.02	WH	=M9948+HSD-2053BG1	X1:1	=M9948+HSD/2053.6	
	=M9948+HSD/2053.5	=M9948+MP-TB1	104.05+	BN	=M9948+HSD-2053BG1	X1:2	=M9948+HSD/2053.5	
GREEN ZONE: SAFETY CARTERS CH1	=M9948+MP/357.3	=M9948+MP-357PLC1	2	GN	=M9948+HSD-2053BG1	X1:3	=M9948+HSD/2053.6	GREEN ZONE: SAFETY CARTERS CH1
GREEN ZONE: SAFETY CARTERS CH2	=M9948+MP/357.4	=M9948+MP-357PLC1	3	YE	=M9948+HSD-2053BG1	X1:4	=M9948+HSD/2053.6	GREEN ZONE: SAFETY CARTERS CH2
				GY				
	=M9948+HSD/2053.6	=M9948+MP-TB1	2052.01	PK	=M9948+HSD-2053BG1	X1:6	=M9948+HSD/2053.6	
	=M9948+HSD/2053.8	=M9948+MP-TB1	2051.05	BU	=M9948+HSD-2053BG1	X1:7	=M9948+HSD/2053.5	
	=M9948+HSD/2053.5	=M9948+MP-TB1	115.01	RD	=M9948+HSD-2053BG1	X1:8	=M9948+HSD/2053.5	

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2053BG1-X2			Cable type					
Function textDoor 5			No. of conductors5			Cross-section0,35		Cable length25
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2053.4	=M9948+MP-TB1	397.07	BN	=M9948+HSD-2053BG1	X2:1	=M9948+HSD/2053.4	
DOOR 03 OPENED	=M9948+MP/390.5	=M9948+MP-390PLC1	4	WH	=M9948+HSD-2053BG1	X2:2	=M9948+HSD/2053.4	DOOR 03 OPENED
DOOR 03 IN FAULT	=M9948+MP/390.6	=M9948+MP-390PLC1	5	BU	=M9948+HSD-2053BG1	X2:3	=M9948+HSD/2053.5	DOOR 03 IN FAULT
	=M9948+HSD/2053.2	=M9948+MP-TB1	397.05	BK	=M9948+HSD-2053BG1	X2:4	=M9948+HSD/2053.4	
				GY				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2054BG1-X1			Cable typePVC Yellow					
Function textDoor 5			No. of conductors8		Cross-section0,35		Cable length	
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2054.6	=M9948+MP-TB1	104.05+	WH	=M9948+HSD-2054BG1	X1:1	=M9948+HSD/2054.6	
	=M9948+HSD/2054.5	=M9948+MP-TB1	104.05+	BN	=M9948+HSD-2054BG1	X1:2	=M9948+HSD/2054.5	
	=M9948+HSD/2055.6	=M9948+MP-TB1	2054.01	GN	=M9948+HSD-2054BG1	X1:3	=M9948+HSD/2054.6	
	=M9948+HSD/2055.6	=M9948+MP-TB1	2054.02	YE	=M9948+HSD-2054BG1	X1:4	=M9948+HSD/2054.6	
				GY				
	=M9948+HSD/2054.6	=M9948+MP-TB1	104.05+	PK	=M9948+HSD-2054BG1	X1:6	=M9948+HSD/2054.6	
	=M9948+HSD/2054.8	=M9948+MP-TB1	0V-	BU	=M9948+HSD-2054BG1	X1:7	=M9948+HSD/2054.5	
	=M9948+HSD/2054.5	=M9948+MP-TB1	115.01	RD	=M9948+HSD-2054BG1	X1:8	=M9948+HSD/2054.5	

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2054BG1-X2			Cable type					
Function textDoor 5			No. of conductors5			Cross-section0,35		Cable length25
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2054.4	=M9948+MP-TB1	398.03	BN	=M9948+HSD-2054BG1	X2:1	=M9948+HSD/2054.4	
DOOR 04 OPENED	=M9948+MP/390.6	=M9948+MP-390PLC1	6	WH	=M9948+HSD-2054BG1	X2:2	=M9948+HSD/2054.4	DOOR 04 OPENED
DOOR 04 IN FAULT	=M9948+MP/390.7	=M9948+MP-390PLC1	7	BU	=M9948+HSD-2054BG1	X2:3	=M9948+HSD/2054.5	DOOR 04 IN FAULT
	=M9948+HSD/2054.2	=M9948+MP-TB1	398.01	BK	=M9948+HSD-2054BG1	X2:4	=M9948+HSD/2054.4	YELLOW ZONE: CARTERS UNLOCK CMD
				GY				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2055BG1-X1			Cable typePVC Yellow					
Function textDoor 5			No. of conductors8		Cross-section0,35		Cable length	
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2055.6	=M9948+MP-TB1	2054.02	WH	=M9948+HSD-2055BG1	X1:1	=M9948+HSD/2055.6	
	=M9948+HSD/2055.5	=M9948+MP-TB1	104.05+	BN	=M9948+HSD-2055BG1	X1:2	=M9948+HSD/2055.5	
YELLOW ZONE: SAFETY CARTERS CH1	=M9948+MP/358.3	=M9948+MP-358PLC1	2	GN	=M9948+HSD-2055BG1	X1:3	=M9948+HSD/2055.6	YELLOW ZONE: SAFETY CARTERS CH1
YELLOW ZONE: SAFETY CARTERS CH2	=M9948+MP/358.4	=M9948+MP-358PLC1	3	YE	=M9948+HSD-2055BG1	X1:4	=M9948+HSD/2055.6	YELLOW ZONE: SAFETY CARTERS CH2
				GY				
	=M9948+HSD/2055.6	=M9948+MP-TB1	2054.01	PK	=M9948+HSD-2055BG1	X1:6	=M9948+HSD/2055.6	
	=M9948+HSD/2055.8	=M9948+MP-TB1	2055.05	BU	=M9948+HSD-2055BG1	X1:7	=M9948+HSD/2055.5	
	=M9948+HSD/2055.5	=M9948+MP-TB1	115.01	RD	=M9948+HSD-2055BG1	X1:8	=M9948+HSD/2055.5	

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2055BG1-X2			Cable type					
Function textDoor 5			No. of conductors5			Cross-section0,35		Cable length25
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2055.4	=M9948+MP-TB1	398.03	BN	=M9948+HSD-2055BG1	X2:1	=M9948+HSD/2055.4	
DOOR 05 OPENED	=M9948+MP/392.2	=M9948+MP-392PLC1	0	WH	=M9948+HSD-2055BG1	X2:2	=M9948+HSD/2055.4	DOOR 05 OPENED
DOOR 05 IN FAULT	=M9948+MP/392.3	=M9948+MP-392PLC1	1	BU	=M9948+HSD-2055BG1	X2:3	=M9948+HSD/2055.5	DOOR 05 IN FAULT
	=M9948+HSD/2055.2	=M9948+MP-TB1	398.01	BK	=M9948+HSD-2055BG1	X2:4	=M9948+HSD/2055.4	
				GY				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2091HL1			Cable typePVC Yellow					
Function text			No. of conductors8			Cross-section0,35		Cable length25
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2091.2	=M9948+MP-TB1	434.01	WH	=M9948+HSD-2091HL1-2091HL2	1	=M9948+HSD/2091.2	LIGHT TOWER: RED
	=M9948+HSD/2091.3	=M9948+MP-TB1	434.02	BN	=M9948+HSD-2091HL1-2091HL3	2	=M9948+HSD/2091.3	LIGHT TOWER: ORANGE
	=M9948+HSD/2091.4	=M9948+MP-TB1	434.03	GN	=M9948+HSD-2091HL1-2091HL4	3	=M9948+HSD/2091.4	LIGHT TOWER: GREEN
	=M9948+HSD/2091.5	=M9948+MP-TB1	434.04	YE	=M9948+HSD-2091HL1-2091HL5	4	=M9948+HSD/2091.5	LIGHT TOWER: BLUE
				GY				
	=M9948+HSD/2091.6	=M9948+MP-TB1	435.01	PK	=M9948+HSD-2091HL1-2091HS6	6	=M9948+HSD/2091.6	LIGHT TOWER: BUZZER
	=M9948+HSD/2091.1	=M9948+MP-TB1	0V-	BU	=M9948+HSD-2091HL1	7	=M9948+HSD/2091.1	
				RD				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+HSD-2092HL1			Cable typePVC Yellow					
Function text			No. of conductors8			Cross-section0,35		Cable length25
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+HSD/2092.2	=M9948+MP-TB1	434.01	WH	=M9948+HSD-2092HL1-2092HL2	1	=M9948+HSD/2092.2	LIGHT TOWER: RED
	=M9948+HSD/2092.3	=M9948+MP-TB1	434.02	BN	=M9948+HSD-2092HL1-2092HL3	2	=M9948+HSD/2092.3	LIGHT TOWER: ORANGE
	=M9948+HSD/2092.4	=M9948+MP-TB1	434.03	GN	=M9948+HSD-2092HL1-2092HL4	3	=M9948+HSD/2092.4	LIGHT TOWER: GREEN
	=M9948+HSD/2092.5	=M9948+MP-TB1	434.04	YE	=M9948+HSD-2092HL1-2092HL5	4	=M9948+HSD/2092.5	LIGHT TOWER: BLUE
				GY				
	=M9948+HSD/2092.6	=M9948+MP-TB1	435.01	PK	=M9948+HSD-2092HL1-2092HS6	6	=M9948+HSD/2092.6	LIGHT TOWER: BUZZER
	=M9948+HSD/2092.1	=M9948+MP-TB1	0V-	BU	=M9948+HSD-2092HL1	7	=M9948+HSD/2092.1	
				RD				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+JOFG-2002XP1			Cable typePVC Yellow					
Function text			No. of conductors8			Cross-section0,35		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
GREEN ZONE: JOG START CH1	=M9948+JOG/2002.3	=M9948+JOG-2002XP1	1	WH	=M9948+MP-357PLC1	6	=M9948+MP/357.2	
=	=M9948+JOG/2002.3	=M9948+JOG-2002XP1	2	BN	=M9948+MP-357PLC1	0	=M9948+MP/357.2	GREEN ZONE: JOG START CH1
GREEN ZONE: JOG START CH2	=M9948+JOG/2002.4	=M9948+JOG-2002XP1	3	GN	=M9948+MP-357PLC1	7	=M9948+MP/357.3	
=	=M9948+JOG/2002.4	=M9948+JOG-2002XP1	4	YE	=M9948+MP-357PLC1	1	=M9948+MP/357.3	GREEN ZONE: JOG START CH2
				GY				
				PK				
				BU				
				RD				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+JOG-2001XP1			Cable typePVC Yellow					
Function text			No. of conductors8			Cross-section0,35		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
BLUE ZONE: JOG START CH1	=M9948+JOG/2001.3	=M9948+JOG-2001XP1	1	WH	=M9948+MP-356PLC1	6	=M9948+MP/356.2	
=	=M9948+JOG/2001.3	=M9948+JOG-2001XP1	2	BN	=M9948+MP-356PLC1	0	=M9948+MP/356.2	BLUE ZONE: JOG START CH1
BLUE ZONE: JOG START CH2	=M9948+JOG/2001.4	=M9948+JOG-2001XP1	3	GN	=M9948+MP-356PLC1	7	=M9948+MP/356.3	
=	=M9948+JOG/2001.4	=M9948+JOG-2001XP1	4	YE	=M9948+MP-356PLC1	1	=M9948+MP/356.3	BLUE ZONE: JOG START CH2
				GY				
				PK				
				BU				
				RD				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB1/=M9948+JOG-2003XP1			Cable typePVC Yellow					
Function text			No. of conductors8			Cross-section0,35		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
YELLOW ZONE: JOG START CH1	=M9948+JOG/2003.3	=M9948+JOG-2003XP1	1	WH	=M9948+MP-358PLC1	6	=M9948+MP/358.2	
=	=M9948+JOG/2003.3	=M9948+JOG-2003XP1	2	BN	=M9948+MP-358PLC1	0	=M9948+MP/358.2	YELLOW ZONE: JOG START CH1
YELLOW ZONE: JOG START CH2	=M9948+JOG/2003.4	=M9948+JOG-2003XP1	3	GN	=M9948+MP-358PLC1	7	=M9948+MP/358.3	
=	=M9948+JOG/2003.4	=M9948+JOG-2003XP1	4	YE	=M9948+MP-358PLC1	1	=M9948+MP/358.3	YELLOW ZONE: JOG START CH2
				GY				
				PK				
				BU				
				RD				

Cable diagram

F09_002

Cable nameCBL=M9948+MP-TB24/=M9948+FB-825XP1			Cable type					
Function text			No. of conductors			Cross-section		Cable length
Function text	Page / column	Target designation from	Connection point	Conductor	Target designation to	Connection point	Page / column	Function text
	=M9948+FB/825.3	=M9948+MP-TB24	104.04+	1	=M9948+FB-825XP1	2	=M9948+FB/825.3	
	=M9948+FB/825.4	=M9948+MP-TB24	0V-	2	=M9948+FB-825XP1	3	=M9948+FB/825.4	
	=M9948+FB/825.4	=M9948+MP-TB24	0V-	3	=M9948+FB-825XP1	4	=M9948+FB/825.4	
	=M9948+FB/825.4	=M9948+MP-TB24	104.08+	4	=M9948+FB-825XP1	5	=M9948+FB/825.4	
	=M9948+FB/825.3		-GND	GNYE	=M9948+FB-825XP1	1	=M9948+FB/825.3	



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9.1 LAY-OUT

