JE275

IT

QUICK GUIDE - istruzioni di collegamento e programmazione dell'apparecchiatura per la messa in funzione di un impianto tipo. **Istruzioni complete e dichiarazione CE di conformità (624BLD) devono essere scaricate dal sito web www.faacgroup.com**.

EN

QUICK GUIDE - equipment connection and programming instructions for operating a standard system. **Complete instructions and CE declaration of conformity (624BLD) must be downloaded from the website www.faacgroup.com**.

FR

QUICK GUIDE - instructions pour la connexion et la programmation de la platine pour la mise en fonction d'une installation type. **Les instructions complètes et la Déclaration de conformité CE (624BLD) doivent être téléchargées sur le site Internet www.faacgroup.com**.

DE

QUICK GUIDE - Anweisungen für den Anschluss und die Programmierung des Geräts zur Inbetriebnahme einer Standardanlage. **Die vollständige Betriebsanleitung und die EG-Konformitätserklärung (624BLD) können von der Webseite www.faacgroup.com heruntergeladen werden**.

ES

QUICK GUIDE - instrucciones de conexión y programación del equipo para la puesta en funcionamiento de una instalación tipo. **Las instrucciones completas y la declaración CE de conformidad (624BLD) deben descargarse del sitio web www.faacgroup.com**.

NL

QUICK GUIDE - instructies voor de aansluiting en programmering van de apparatuur voor de inbedrijfstelling van een standaardinstallatie. **Volledige instructies en EG-conformiteitsverklaring (624BLD) moeten van de website www.faacgroup.com worden gedownload**.

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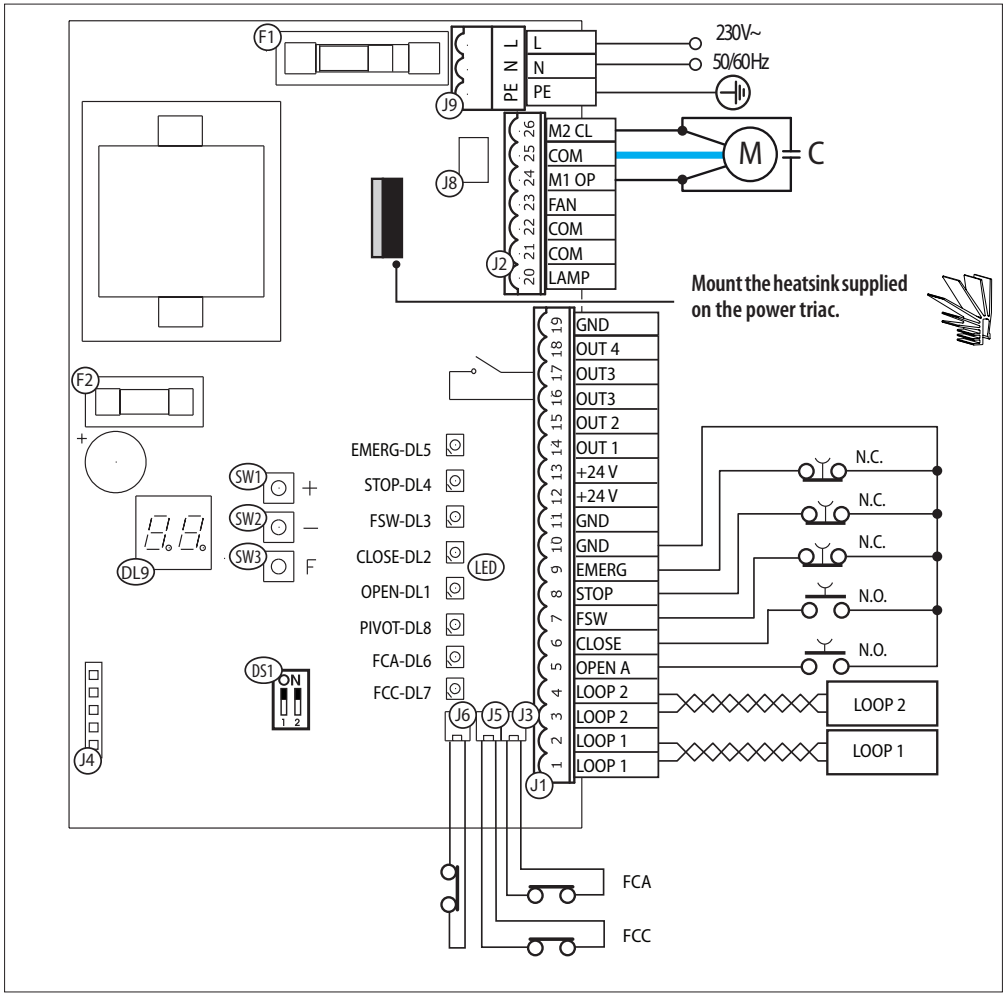
1. ELECTRICAL CONNECTIONS



DL9	Signalling/programming display
SW1	Programming push-button **+**
SW2	Programming push-button **−**
SW3	Programming push-button **F**
DS1	Loop 1 and Loop 2 frequencies selector
F1	Fuse for motors and transformer primary winding (F 10A)
F2	Fuse for low voltage and accessories (F 0.8A)
J4	5 pin connector for Decoder/Minidec/RP/RP2
J8	Connector for motor thrust capacitor (Not used for JE275)

J3	INPUT	DESCRIPTION/STATUS		
1 2	LOOP 1	**Loop 1 input** - The loop connected to Loop1 input has OPEN function.		
3 4	LOOP 2	**Loop 2 input** - The loop connected to Loop2 input has SAFETY/CLOSING function, i.e. it will work as SAFETY during the closing stage and upon disengagement it will command CLOSING to the board.		
5	OPEN	**OPEN Contact** - NO - Connect a button or other impulse giver which, when a contact is closed, controls bollard lowering. (The behaviour is detailed in the logics table included in the comprehensive instructions)	DL1	Closed contact OPEN active Open contact OPEN not active
6	CLOSE	**CLOSE Contact** - NO - Connect a button or other impulse giver which, when a contact is closed, controls bollard lifting. (The behaviour is detailed in the logics table included in the comprehensive instructions)	DL2	Closed contact CLOSE active Open contact CLOSE not active
7	FSW	**FSW Contact** - NC- Connect the pressure switch and/or other device which, upon opening a contact, inverts bollard movement to opening.	DL3	Closed contact PRESSURE SWITCH not active Open contact PRESSURE SWITCH active
8	STOP	**STOP Contact** - NC - Connect a button or other impulse giver which, when a contact is opened, controls automation stop.	DL4	Closed contact STOP not active Open contact STOP Active
9	EMERGENCY	**EMERGENCY Contact** - NC - Connect a button or other impulse giver which, upon activating in emergency, controls bollard lowering and blocks its operation until the contact is reset.	DL5	Closed contact EMERGENCY not active Open contact EMERGENCY active
10 11	GND	Negative accessories power supply		
12 13	+24 V⎓	+24 Positive accessories power supply (MAX. load = 500mA)		
14	OUT 1	**Bollard buzzer** - Open collector Output -24 V⎓ MAX 100mA o1 = 15 (advanced programming)		
15	OUT 2	Output active when bollard is in closed status. Open Collector Output - 24 V⎓ MAX 100mA o2 = 03 (advanced programming)		
16 17	OUT 3	**Bollard lights** Dry contact relay output. 24 V / MAX 500mA o3 = 02 (advanced programming)		

18	OUT 4	The output is dedicated to the accessories with BUS technology or as traffic light control function (ch. 5) Open Collector Output +24V⎓ MAX 100mA oH = 00 (advanced programming)			
20 21	LAMP	Flashing light connection (230 V - MAX 60 W)			
22 23	COM-FAN	230 V Solenoid valve connection (Only J275 - J355)			
24	M1 OP	Opening motor phase			
25	COM	Common motor (Blue or grey)			
26	M2 CL	Closing motor phase			
	FCA	Opening limit switch contact - NC	DL6	■	FCA not busy
				□	FCA busy - bollard in open position
	FCC	Closing limit switch contact - NC	DL7	■	FCC not busy
				□	FCC busy - bollard in closed position
	BEAM BREAKTHROUGH	Automation breakthrough contact - NC - **NOT USED**. Ensure the contact is jumpered	DL8	■	Automation breakthrough contact closed
				□	Automation breakthrough contact open
PE	EARTH	Earth Connection			
N	NEUTRAL	Power supply connection 230V~ +6% -10%			
L	LINE				

2. PROGRAMMING

BASIC PROGRAMMING

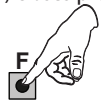
1. Press **F** until the first basic function is displayed. (each function code remains displayed as long as the **F** button is pressed).

2. Release: The function value is displayed (default or other programmed one).

3. Use buttons **+** or **−** to modify the value.

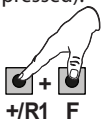
4. Press **F** to confirm the displayed value. Move to the next function. The modified value becomes effective immediately.

Proceed in the same way for all functions. The last (St) closes programming.

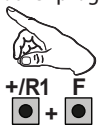


ADVANCED PROGRAMMING

1. Press and hold **F** and **+** as well, until the first advanced function is displayed. (each function code remains displayed as long as the **F** button is pressed).



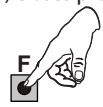
2. Release: The function value is displayed (default or other programmed one).



3. Use buttons **+** or **–** to modify the value.

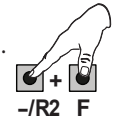
4. Press **F** to confirm the displayed value. Move to the next function. The modified value becomes effective immediately.

Proceed in the same way for all functions. The last (St) closes programming.



To **EXIT the programming at anytime**:

- press and hold **F** and then also **–** to switch directly to St.

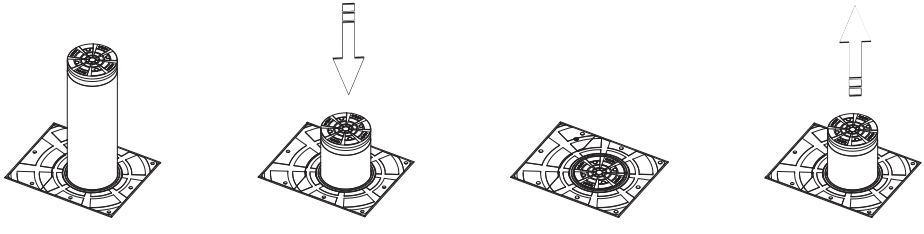


Display	Base Function (1st Level)	Default
dF	**DEFAULT:** 00 Neutral condition 01 DO NOT USE 02 DO NOT USE 03 Default FAAC CITY 04 Default FAAC CITY K 05 Default J275 06 Default J355 07 Default J200 The first operation to be carried out is to load and save the correct default unit for one's installation: 1. Select suitable dF value: 05, 06, or 07. 2. Press and hold **F** followed by **–** to go directly to St. That way programming is exited and the new default is saved. Subsequently, when entering programming to modify other functions, dF does not need to be reprogrammed. In fact the saved default is active although the display is 00. Every time dF is modified, factory settings will overwrite any programming made. * dF has fixed display 00, regardless of the loaded value. ** 01 is the default factory loaded unit. It must be changed selecting the most appropriate one for the bollard to be connected	
bu	**BUS ACCESSORIES MENU**	

Display	Base Function (1st Level)	Default
LO	**OPERATING LOGIC:** A Automatic AI Automatic 1 E Semi-automatic P Car park PA Automatic car park Cn Condo CA Automatic Condo rb Automatic for bollard C Dead Man r Remote Cu Custom	rb
PA	**PAUSE TIME** Is the holding time before automatic closing back (only enabled in logics with pause time). Adjustable from 00 to 59 sec, in 1-second steps. After the value 59, the display changes to minutes and tenths of a second (separated by a decimal point) and time is adjusted in 10-second steps up to the maximum value of 4.1 minutes. e.g.: if the display shows 2.5, the time is 2 min and 50 sec.	30
FO	OPENING MOTOR POWER Adjusts the thrust of the motor during the opening phase. 00 Minimum power 50 Maximum power In the event it is not present or the fast lowering solenoid valve is not used, it is recommended to leave the default value.	dF 05=50 dF 06=35 dF 07=50
FC	**CLOSING MOTOR POWER** Adjusts the thrust of the motor during the closing phase. 00 Minimum power 50 Maximum power Set power to the value 50	50
L1	**LOOP 1** If this function is enabled, the loop connected to the Loop 1 input will have the OPEN function. Y loop 1 active no loop 1 not active	no
L2	**LOOP 2** If this function is enabled, the loop connected to Loop 2 input will have the SAFETY/CLOSE function, i.e. it will operate as SAFETY during the closing stage, and will command CLOSE to the board at release. Y loop 2 active no loop 2 not active	no
H1	**BOOST LOOP 1** This is to increase the sensitivity level at the moment of detection. When the vehicle leaves the loop, sensitivity returns to the selected level. This system holds the detection contact even in the event of very high vehicles as well as during possible transit of a tractor with trailer. Y Active no Disabled	no
H2	**BOOST LOOP 2** See BOOST LOOP1 function Y Active no Disabled	no

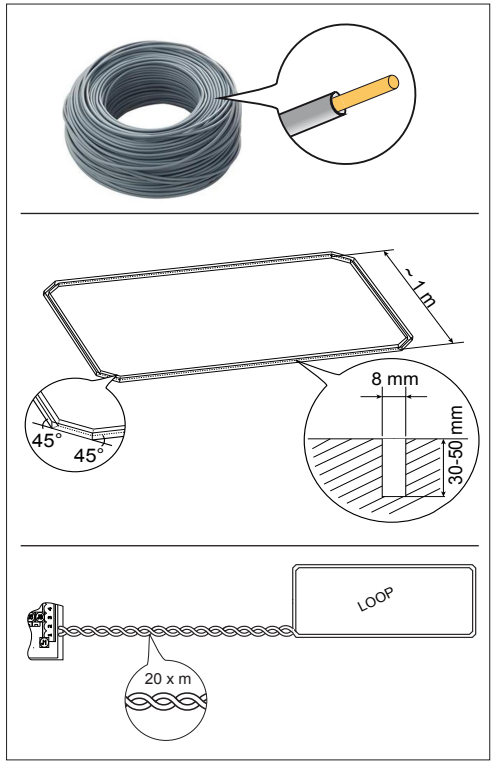
Display	Base Function (1st Level)	Default
S1	**LOOP 1 SENSITIVITY** Regulates loop sensitivity 01 minimum 10 maximum	05
S2	**LOOP 2 SENSITIVITY** Regulates the sensitivity of the loop: 01 minimum 10 maximum	05
St	**STATUS OF THE AUTOMATED SYSTEM:** Exit programming, memory storage of data set and return to automated system status view. 00 Closed 01 Preliminary opening flashing 02 Opening 03 Open 04 In pause 05 Preliminary closing flashing 06 Closing 07 Stopped ready to close 08 Stopped ready to open 09 Emergency opening 10 Closing safety device tripped If board power supply fails prior to confirmation, all changes made will be lost.	

Possible Statuses			
00 Closed	02 Opening	03 Open	06 Closing
08 Stopped ready to open	09 Emergency opening	04 Pause (if provided)	
		07 Stopped ready to open	



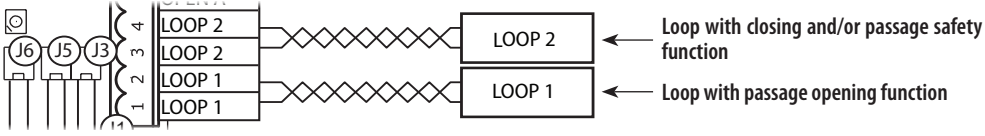
3. LOOP INSTALLATION

CABLE FEATURES	
Cable Section	1,5 mm2
Type	single-pole double insulation cable
Minimum LOOP DISTANCE	
from FIXED METAL objects	60 cm
from MOVABLE METAL objects	1 m
from the SURFACE OF THE FLOORING	5 cm
No. of windings based on LOOP PERIMETER	
perimeter less than 3 m	6 windings
perimeter from 3 to 4 m	5 windings
perimeter from 4 to 6 m	4 windings
perimeter from 6 m to 12 m	3 windings
perimeters over 12 m	2 windings



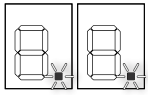
For correct loop operation the two ends of the cable must be twisted together at least 20 times per metre from the windings to the detector.
Avoid splicing the cable (should it be necessary, weld the conductors and seal the splice with heat-shrink sheath).
Keep the cable separate and away from mains power supply lines.

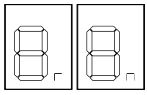
3.1 CONNECTION TO THE BOARD



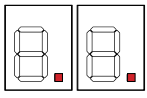
3.2 LOOP STATUS SIGNALLING

Each time the board JE275 is powered the integrated loop detector self-calibrates the connected loops.
Upon completing calibration the decimal points represent the status of the loops:


Flashing:
Calibrating


Off:
Loops free

Loop 1 Loop 2


On:
Loops busy

Loop 1 Loop 2

4. OPERATING LOGIC

Further details are provided in instructions for the 624BLD board

LOGIC		Automation status: stopped	Automation status: in motion	Status: FSW input triggered (in closing only)
A	**Automatic**	An OPEN pulse opens the bollard and closes automatically after the pause time	An OPEN pulse is ignored when the bollard opens, is reapplied during the pause and reopens when the bollard closes A CLOSE command during opening inverts in closure	Reloads the pause during the pause, inverts motion during closure
A1	**Automatic 1**	An OPEN pulse opens the bollard and closes automatically after the pause time	An OPEN pulse is ignored when the bollard opens, is reapplied during the pause and reopens when the bollard closes	To close again during pause; engages closing during an opening and inverts during a closure, to then close immediately at the end of the cycle
E	**Semi-automatic**	An OPEN pulse opens the bollard and the following one closes it	An OPEN pulse stops the bollard when opening and reopens when the bollard is closing	Inverts during closure
P	**Parking**	Logic with two separate commands: OPEN-A pulse opens; CLOSE pulse closes	An OPEN-A pulse opens when the bollard closes, a CLOSE pulse closes when it opens	Blocks motion during closure, motion resumes at disengagement
PA	**Parking automatic**	Logic with two separate commands: OPEN-A pulse opens and automatically closes after the pause time; CLOSE pulse closes	An OPEN-A pulse opens when the bollard closes, a CLOSE pulse during opening closes when it is completely open.	Blocks motion during closure, motion resumes at disengagement
Cn	**Condo**	Logic with two separate commands: OPEN-A pulse opens; CLOSE pulse closes	An OPEN-A pulse opens when the bollard closes, a CLOSE pulse closes when it opens	During closure it inverts motion, and engages closure after the set pause time
CA	**Condo automatic**	Logic with two separate commands: OPEN-A pulse opens and automatically closes after the pause time; CLOSE pulse closes	An OPEN-A pulse opens when the bollard closes, a CLOSE pulse closes when it opens	During closure it inverts motion, and engages closure after the set pause time
rb	**Automatic**	An OPEN pulse opens the bollard and closes automatically after the pause time	An OPEN pulse is ignored when the bollard opens, is reapplied during the pause and reopens when the bollard closes A CLOSE command during opening inverts in closure	Reloads the pause during the pause, inverts motion during closure

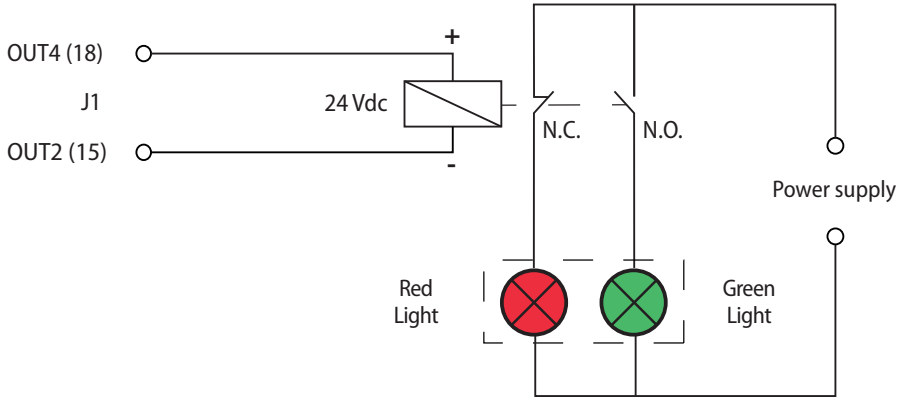
LOGIC		Automation status: stopped	Automation status: in motion	Status: FSW input triggered (in closing only)
C	Dead-man	An OPEN pulse opens the bollard and closes automatically after the pause time	An OPEN pulse is ignored when the bollard opens, is reapplied during the pause and reopens when the bollard closes A CLOSE command during opening inverts in closure	Reloads the pause during the pause, inverts motion during closure
r	Remote	According to the logic selected in the 624mps master board	According to the logic selected in the 624mps master board	According to the logic selected in the 624mps master board
CU	Custom (Customised by the user)	According to the logic selected and changes made in 3rd programming level	According to the logic selected and changes made in 3rd programming level	According to the logic selected and changes made in 3rd programming level

5. TRAFFIC LIGHT CONTROL CONNECTION

At second programming level, set the following parameters as pictured:

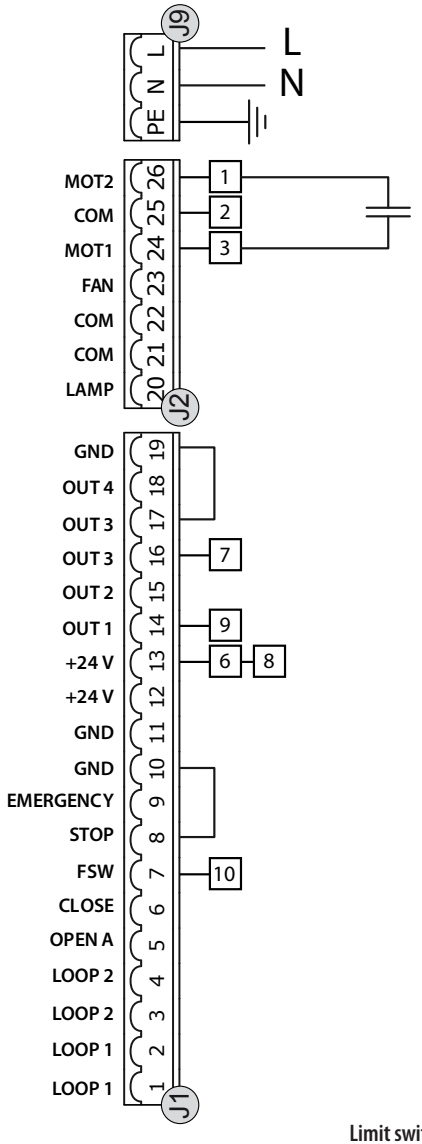
Advanced programming

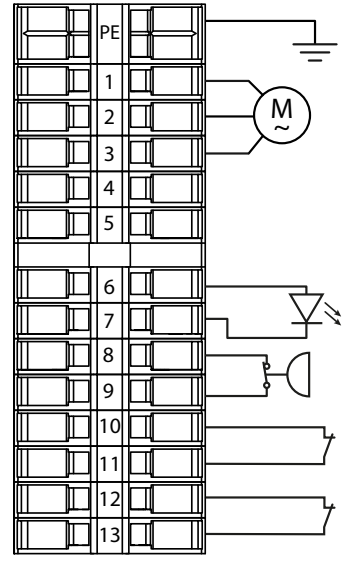
o2 = 04
P2 = no
o4 = 16
P4 = no



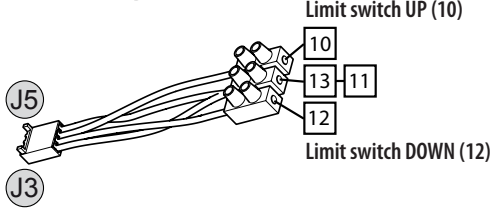
For greater safety we recommend enabling the closing preflashing (PF = CL)

6. J200 CONNECTION

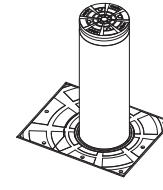




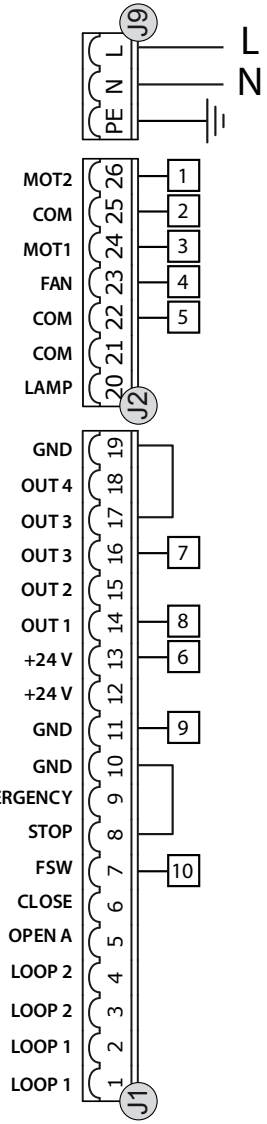
TERMINAL	ACCESSORY
1	Motor phase 1
2	Common motor
3	Motor phase 2
4	Heater
5	Heater
6	Header lights +
7	Header lights -
8	Buzzer +
9	Buzzer -
10	Limit switch up
11	Common limit switch -
12	Limit switch down
13	Common limit switch -



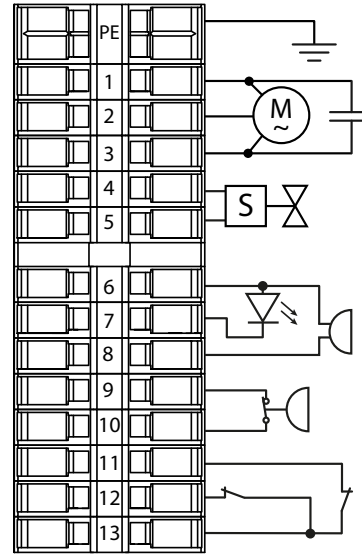
MAX x3



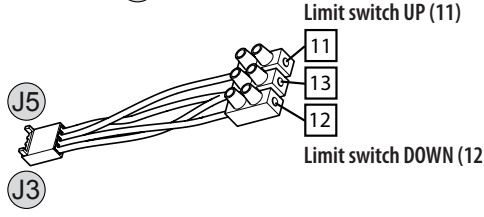
7. J275 CONNECTION



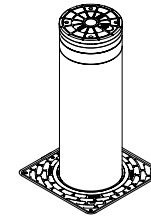
BOLLARD SIDE



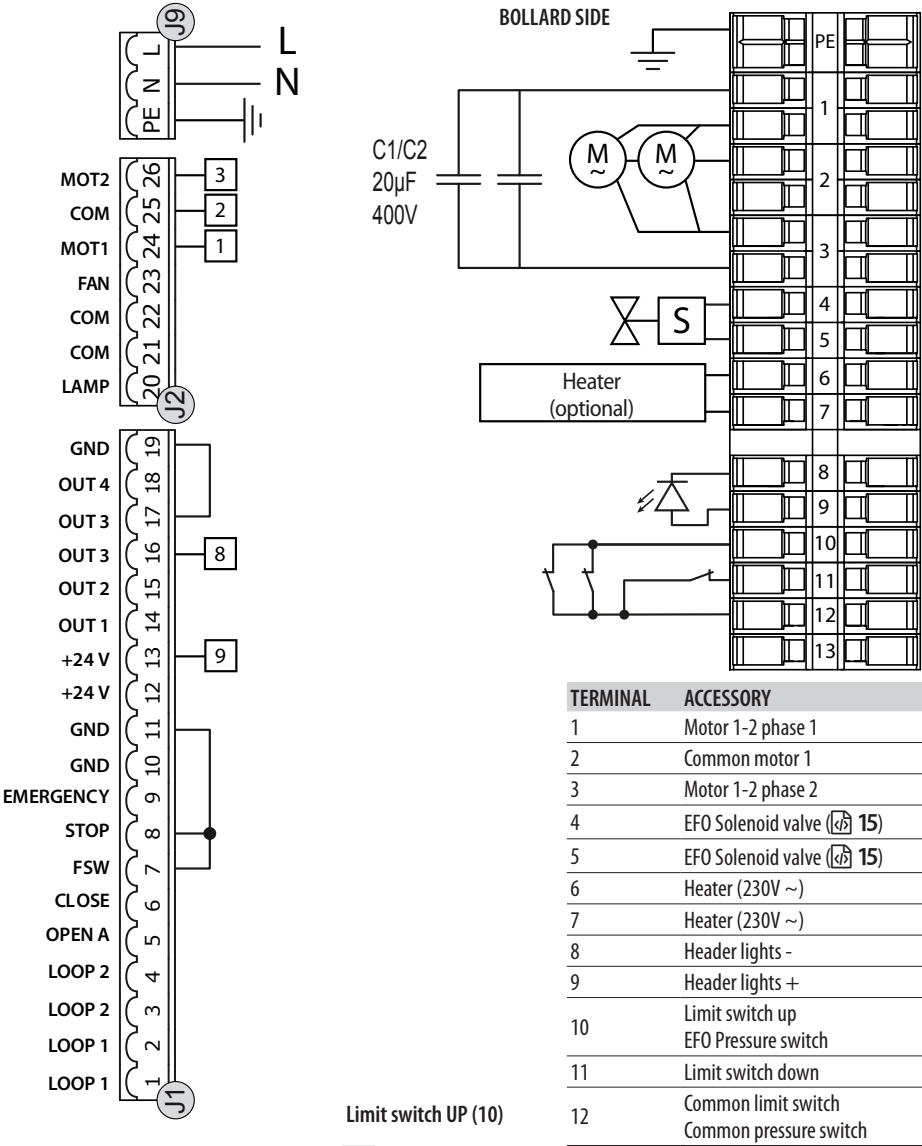
TERMINAL	ACCESSORY
1	Motor phase 1
2	Common motor
3	Motor phase 2
4	Solenoid valve
5	Solenoid valve
6	Header lights/Buzzer +
7	Header lights -
8	Buzzer -
9	Pressure switch
10	Pressure switch
11	Limit switch up
12	Limit switch down
13	Common limit switch -



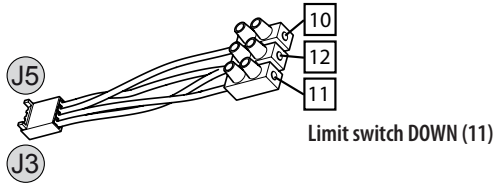
MAX x3



8. J355 M30 CONNECTION

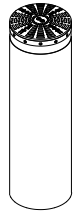


TERMINAL	ACCESSORY
1	Motor 1-2 phase 1
2	Common motor 1
3	Motor 1-2 phase 2
4	EFO Solenoid valve (**15**)
5	EFO Solenoid valve (**15**)
6	Heater (230V ~)
7	Heater (230V ~)
8	Header lights -
9	Header lights +
10	Limit switch up EFO Pressure switch
11	Limit switch down
12	Common limit switch Common pressure switch
13	Not used



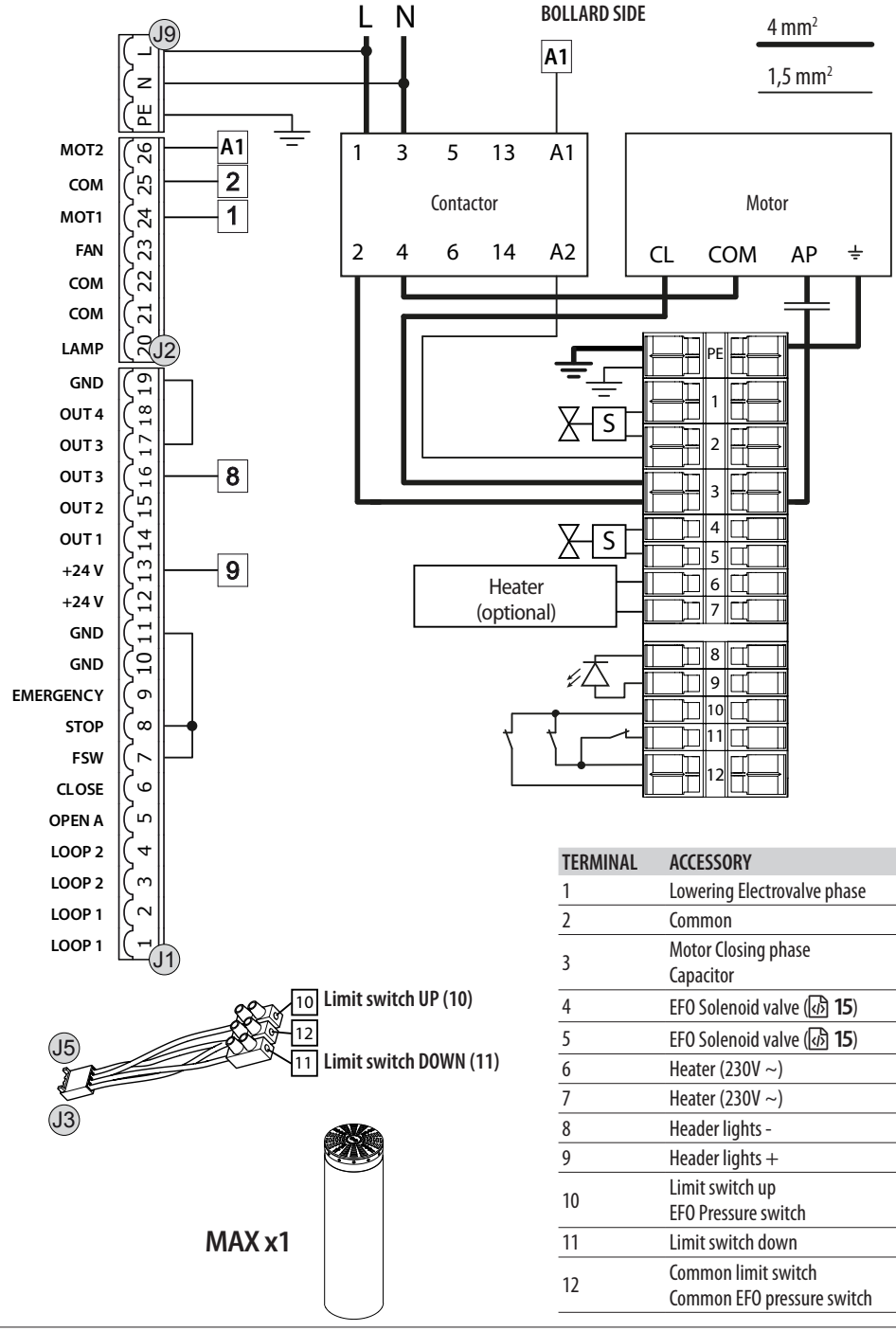
Limit switch UP (10)

Limit switch DOWN (11)



MAX x1

9. J355 M50 CONNECTION

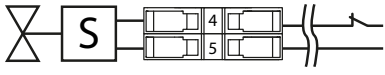


TERMINAL	ACCESSORY
1	Lowering Electrovalve phase
2	Common
3	Motor Closing phase Capacitor
4	EFO Solenoid valve (</> **15**)
5	EFO Solenoid valve (</> **15**)
6	Heater (230V ~)
7	Heater (230V ~)
8	Header lights -
9	Header lights +
10	Limit switch up EFO Pressure switch
11	Limit switch down
12	Common limit switch Common EFO pressure switch

10. EFO CONNECTION

10.1 J355 M30

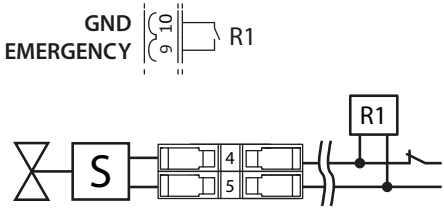
EFO NO connection



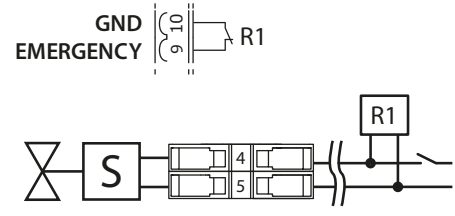
EFO NC connection (only voluntary activation)

10.2 J355 M50

EFO NO connection



EFO NC connection (only voluntary activation)



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