

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.

The logo for FAAC, consisting of the letters 'FAAC' in a bold, stylized, sans-serif font. The 'F' and 'A' are connected, and the 'C' has a distinctive shape.

© Copyright FAAC S.p.A. dal 2018. Tutti i diritti riservati.

Nessuna parte di questo manuale può essere riprodotta, archiviata, distribuita a terzi né altrimenti copiata, in qualsiasi formato e con qualsiasi mezzo, sia esso elettronico, meccanico o tramite fotocopia, senza il preventivo consenso scritto di FAAC S.p.A.

Tutti i nomi e i marchi citati sono di proprietà dei rispettivi fabbricanti.

I clienti possono effettuare copie per esclusivo utilizzo proprio.

Questo manuale è stato pubblicato nel 2018.

© Copyright FAAC S.p.A. from 2018. All rights reserved.

No part of this manual may be reproduced, archived, distributed to third parties nor copied in any other way, in any format and with any means, be it electronic, mechanical or by photocopying, without prior written authorisation by FAAC S.p.A.

All names and trademarks mentioned are the property of their respective manufacturers.

Customers may make copies exclusively for their own use.

This manual was published in 2018.

© Copyright FAAC S.p.A. depuis 2018. Tous droits réservés.

Aucune partie de ce manuel ne peut être reproduite, archivée ou distribuée à des tiers ni copiée, sous tout format et avec tout moyen, qu'il soit électronique, mécanique ou par photocopie, sans le consentement écrit préalable de FAAC S.p.A.

Tous les noms et les marques cités sont la propriété de leurs fabricants respectifs.

Les clients peuvent faire des copies pour leur usage exclusif.

Ce manuel a été publié en 2018.

© Copyright FAAC S.p.A. ab dem 2018. Alle Rechte vorbehalten.

Kein Teil dieses Handbuchs darf reproduziert, gespeichert, an Dritte weitergegeben oder sonst auf eine beliebige Art in einem beliebigen Format und mit beliebigen Mitteln kopiert werden, weder mit elektronischen, noch mechanischen oder durch Fotokopieren, ohne die Genehmigung von FAAC S.p.A.

Alle erwähnten Namen und Marken sind Eigentum der jeweiligen Hersteller.

Die Kunden dürfen nur für den Eigengebrauch Kopien anfertigen.

Dieses Handbuch wurde 2018 veröffentlicht.

© Copyright FAAC S.p.A. del 2018. Todos los derechos están reservados.

No puede reproducirse, archivar, distribuirse a terceros ni copiarse de ningún modo, ninguna parte de este manual, con medios mecánicos o mediante fotocopia, sin el permiso previo por escrito de FAAC S.p.A.

Todos los nombre y las marcas citadas son de propiedad de los respectivos fabricantes.

Los clientes pueden realizar copias para su uso exclusivo.

Este manual se ha publicado en 2018.

© Copyright FAAC S.p.A. van 2018. Alle rechten voorbehouden.

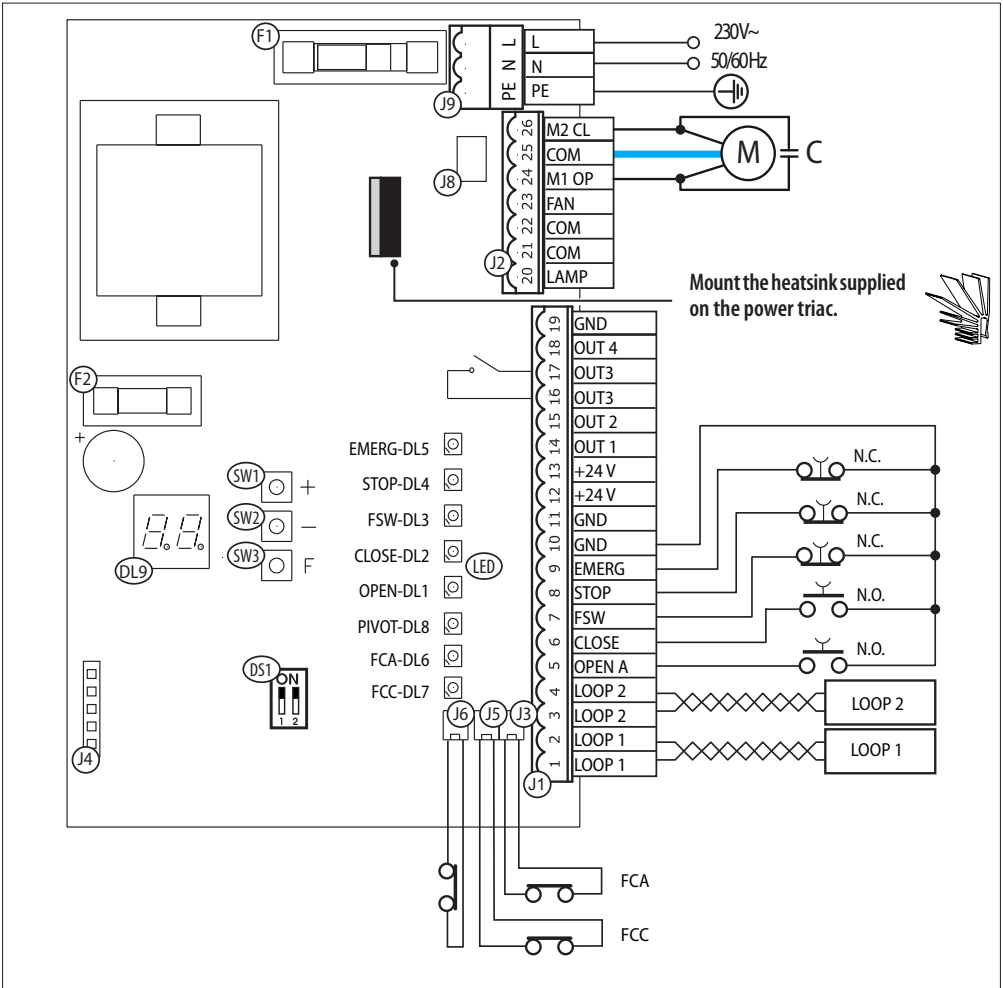
Niets uit deze handleiding mag gereproduceerd, gearchiveerd, aan derden openbaar gemaakt of op andere wijze gekopieerd worden, in om het even welke vorm en met geen enkel middel, noch elektronisch, mechanisch of via fotokopiëren, zonder schriftelijke toestemming vooraf van FAAC S.p.A.

Alle vermelde namen en merken zijn eigendom van de respectievelijke fabrikanten.

De klanten mogen kopieën maken die enkel voor eigen gebruik bestemd zijn.

Dez handleiding werd in 2018 gepubliceerd.











1. ELECTRICAL CONNECTIONS



ENGLISH

Translation of the original instructions

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/2
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	<p>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)</p> <p>DL1</p> <p> Closed contact OPEN active</p> <p> Open contact OPEN not active</p>
6	CLOSE	<p>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)</p> <p>DL2</p> <p> Closed contact CLOSE active</p> <p> Open contact CLOSE not active</p>
7	FSW	<p>FSW Contact - NC - Connect the pressure switch and/or other device which, upon opening a contact, inverts bollard movement to opening.</p> <p>DL3</p> <p> Closed contact PRESSURE SWITCH not active</p> <p> Open contact PRESSURE SWITCH active</p>
8	STOP	<p>STOP Contact - NC - Connect a button or other impulse giver which, when a contact is opened, controls automation stop.</p> <p>DL4</p> <p> Closed contact STOP not active</p> <p> Open contact STOP Active</p>
9	EMERGENCY	<p>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.</p> <p>DL5</p> <p> Closed contact EMERGENCY not active</p> <p> Open contact EMERGENCY active</p>
10 11	GND	Negative accessories power supply
12 13	+24 V \equiv	+24 Positive accessories power supply (MAX. load = 500mA)
14	OUT 1	Bollard buzzer - Open collector Output -24 V \equiv MAX 100mA $\square 1 = 15$ (advanced programming)
15	OUT 2	Output active when bollard is in closed status. Open Collector Output - 24 V \equiv MAX 100mA $\square 2 = \square 3$ (advanced programming)
16 17	OUT 3	Bollard lights Dry contact relay output. 24 V / MAX 500mA $\square 3 = \square 2$ (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 □4 = □□ (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	<input checked="" type="checkbox"/> FCA not busy <input type="checkbox"/> FCA busy - bollard in open position
FCC	Closing limit switch contact - NC	DL7	<input checked="" type="checkbox"/> FCC not busy <input type="checkbox"/> FCC busy - bollard in closed position
BEAM BREAKTHROUGH	Automation breakthrough contact - NC - NOT USED. Ensure the contact is jumpered	DL8	<input checked="" type="checkbox"/> Automation breakthrough contact closed <input type="checkbox"/> 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.



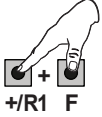
4. Press **F** to confirm the displayed value. Move to the next function. The modified value becomes effective immediately.

Proceed in the same way for all functions. The last (5E) closes programming.

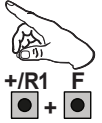


ADVANCED PROGRAMMING

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.



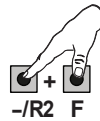
4. Press **F** to confirm the displayed value. Move to the next function. The modified value becomes effective immediately.

Proceed in the same way for all functions. The last (**5E**) closes programming.



To **EXIT** the programming at anytime:

- press and hold **F** and then also **-** to switch directly to **5E**.



Display	Base Function (1st Level)	Default
DEFAULT:		
00	Neutral condition	04 Default FAAC CITY K
01	DO NOT USE	05 Default J275
02	DO NOT USE	06 Default J355
03	Default FAAC CITY	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 **5E**. 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
	OPERATING LOGIC:	
	A Automatic	CA Automatic Condo
	AI Automatic 1	rb Automatic for bollard
L0	E Semi-automatic	C Dead Man
	P Car park	r Remote
	PA Automatic car park	Cu Custom
	Cn Condo	
	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.	
PA	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
	OPENING MOTOR POWER	
	Adjusts the thrust of the motor during the opening phase.	
F0	00 Minimum power	dF 05=50
	50 Maximum power	dF 06=35
	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 07=50
	CLOSING MOTOR POWER	
	Adjusts the thrust of the motor during the closing phase.	
FC	00 Minimum power	50
	50 Maximum power	
	Set power to the value 50	
	LOOP 1	
	If this function is enabled, the loop connected to the Loop 1 input will have the OPEN function.	
L1	Y loop 1 active	no
	no loop 1 not active	
	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.	
L2	Y loop 2 active	no
	no loop 2 not active	
	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.	
H1	Y Active	no
	no Disabled	
	BOOST LOOP 2	
	See BOOST LOOP1 function	
H2	Y Active	no
	no Disabled	

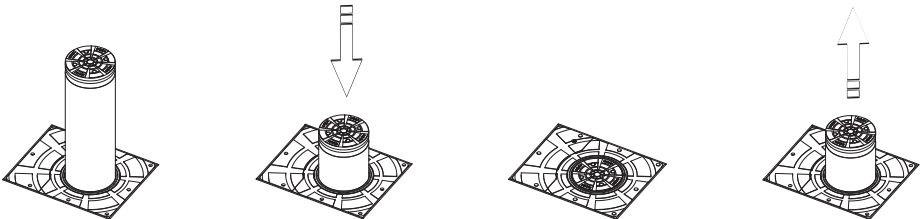
Display	Base Function (1st Level)	Default
S1	LOOP 1 SENSITIVITY Regulates loop sensitivity	05
	01 minimum	
	10 maximum	
S2	LOOP 2 SENSITIVITY Regulates the sensitivity of the loop:	05
	01 minimum	
	10 maximum	
St	STATUS OF THE AUTOMATED SYSTEM: Exit programming, memory storage of data set and return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



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 mm ²
Type	single-pole double insulation cable

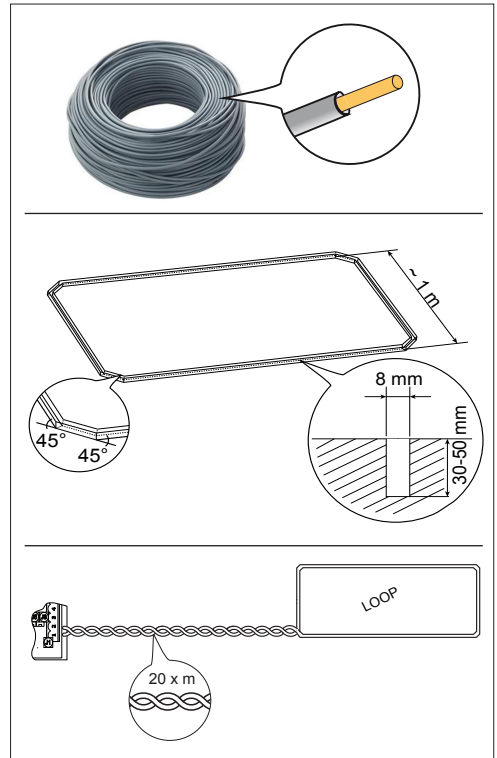
Minimum LOOP DISTANCE

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

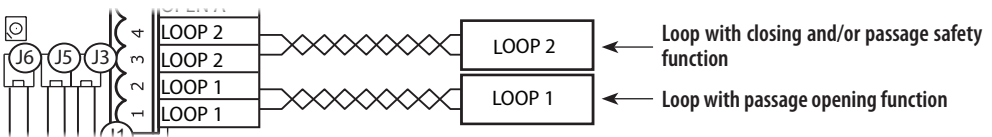
i For correct loop operation the two ends of the cable must be twisted together at least 20 times per metre from the windings to the detector. Avoid splicing the cable (should it be necessary, weld the conductors and seal the splice with heat-shrink sheath). Keep the cable separate and away from mains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



ENGLISH

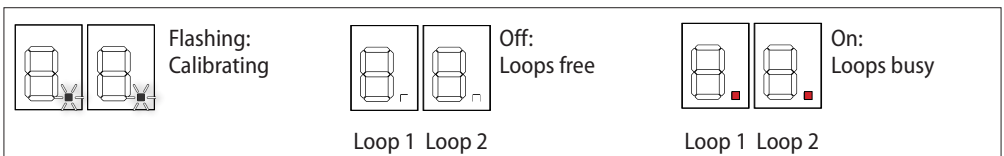
Translation of the original instructions

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:



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

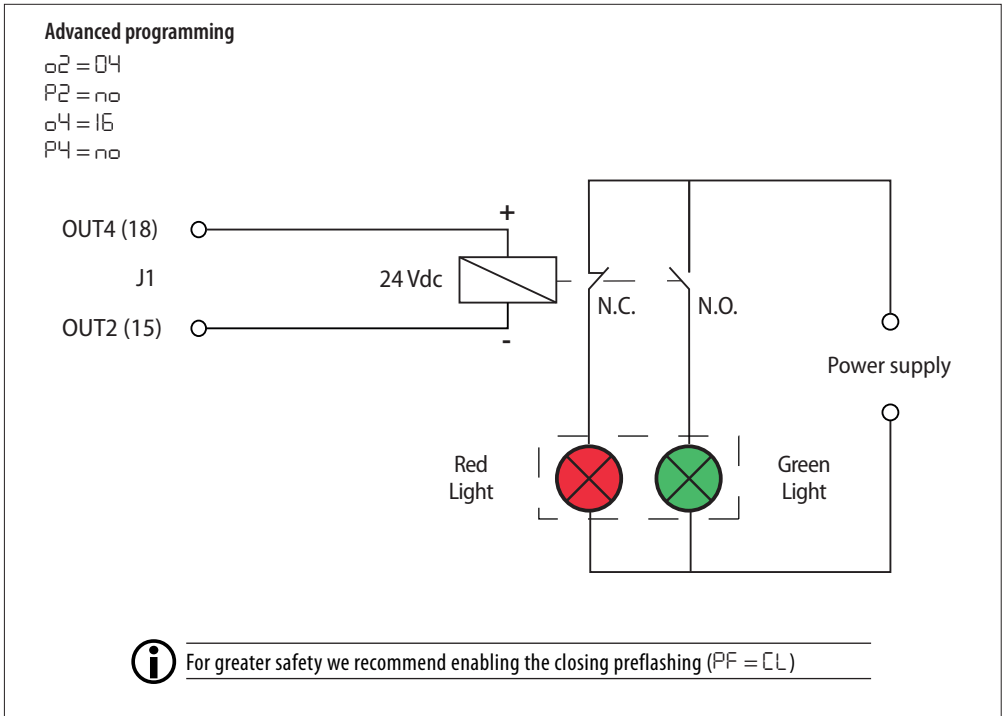
ENGLISH

Translation of the original instructions

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

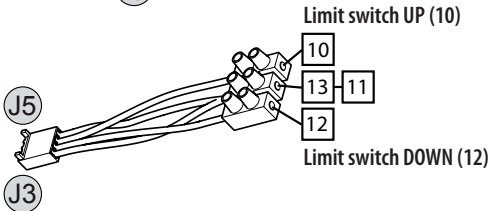
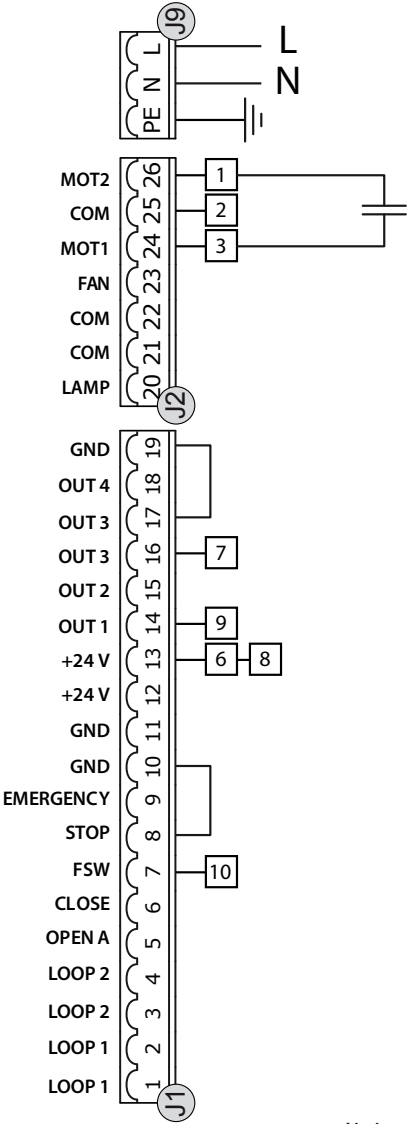
At second programming level, set the following parameters as pictured:



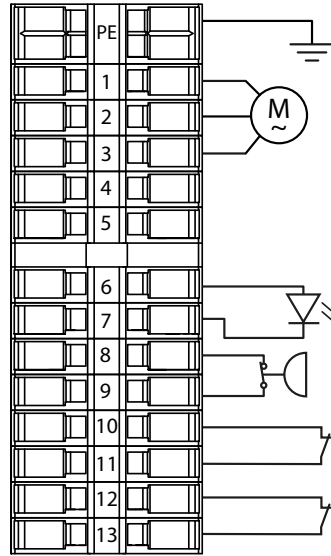
6. J200 CONNECTION

ENGLISH

Translation of the original instructions

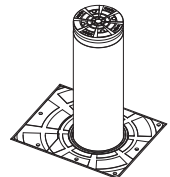


BOLLARD SIDE



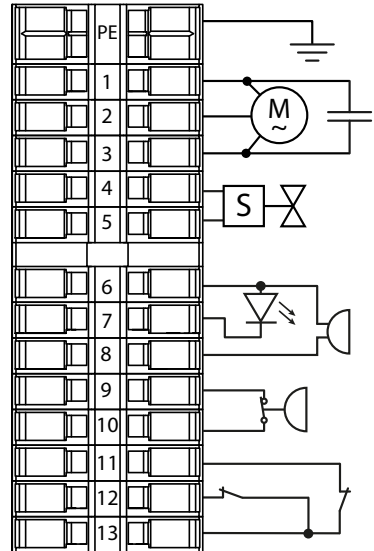
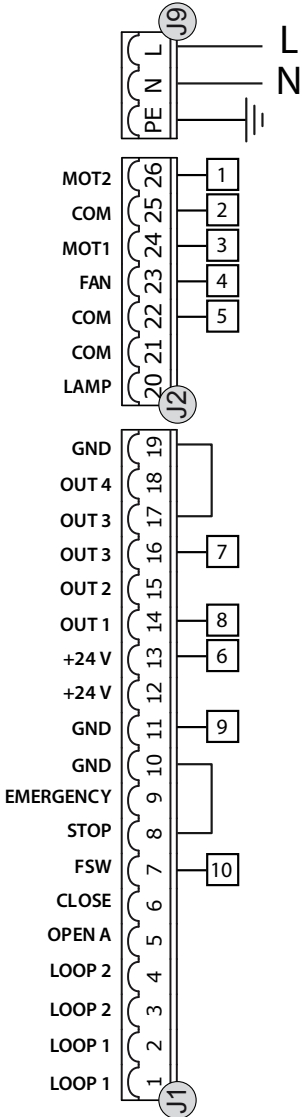
TERMINAL	ACCESSORY
1	Motor phase 1
2	Common motor
3	Motor phase 2
4	Heater
5	Heater
6	Header lights +
7	Header lights -
8	Buzzer +
9	Buzzer -
10	Limit switch up
11	Common limit switch -
12	Limit switch down
13	Common limit switch -

MAX x3

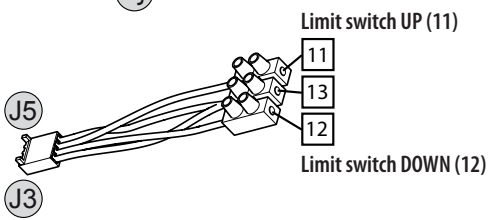


7. J275 CONNECTION

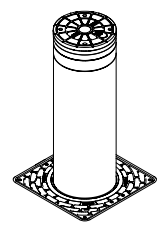
BOLLARD SIDE



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 -



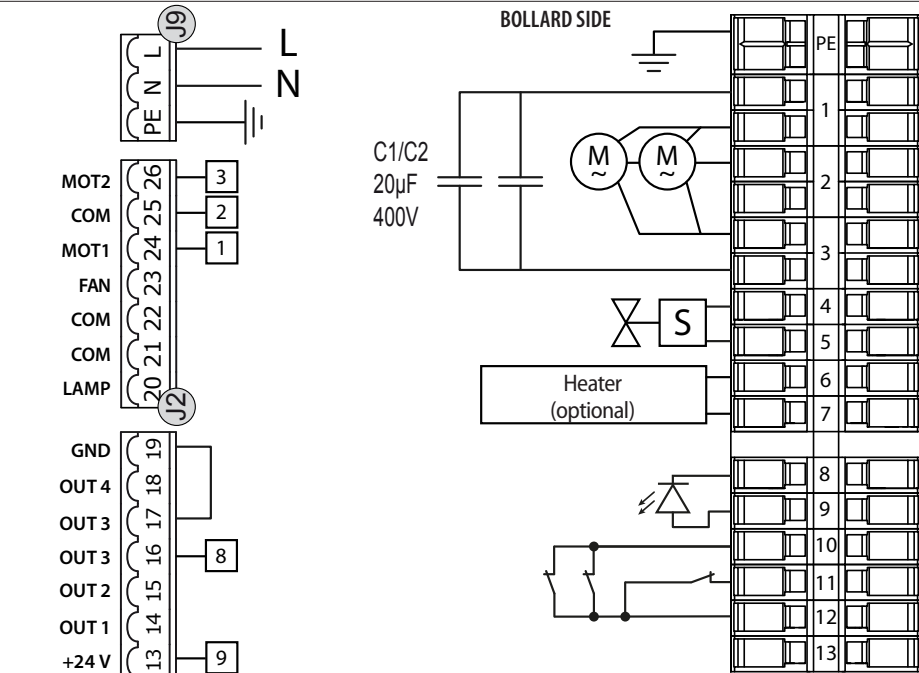
MAX x3



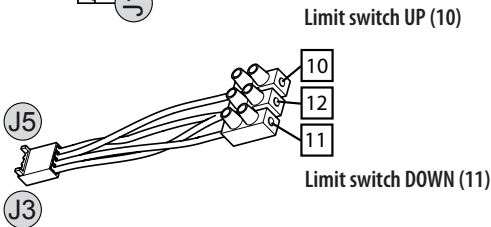
ENGLISH

Translation of the original instructions

8. J355 M30 CONNECTION



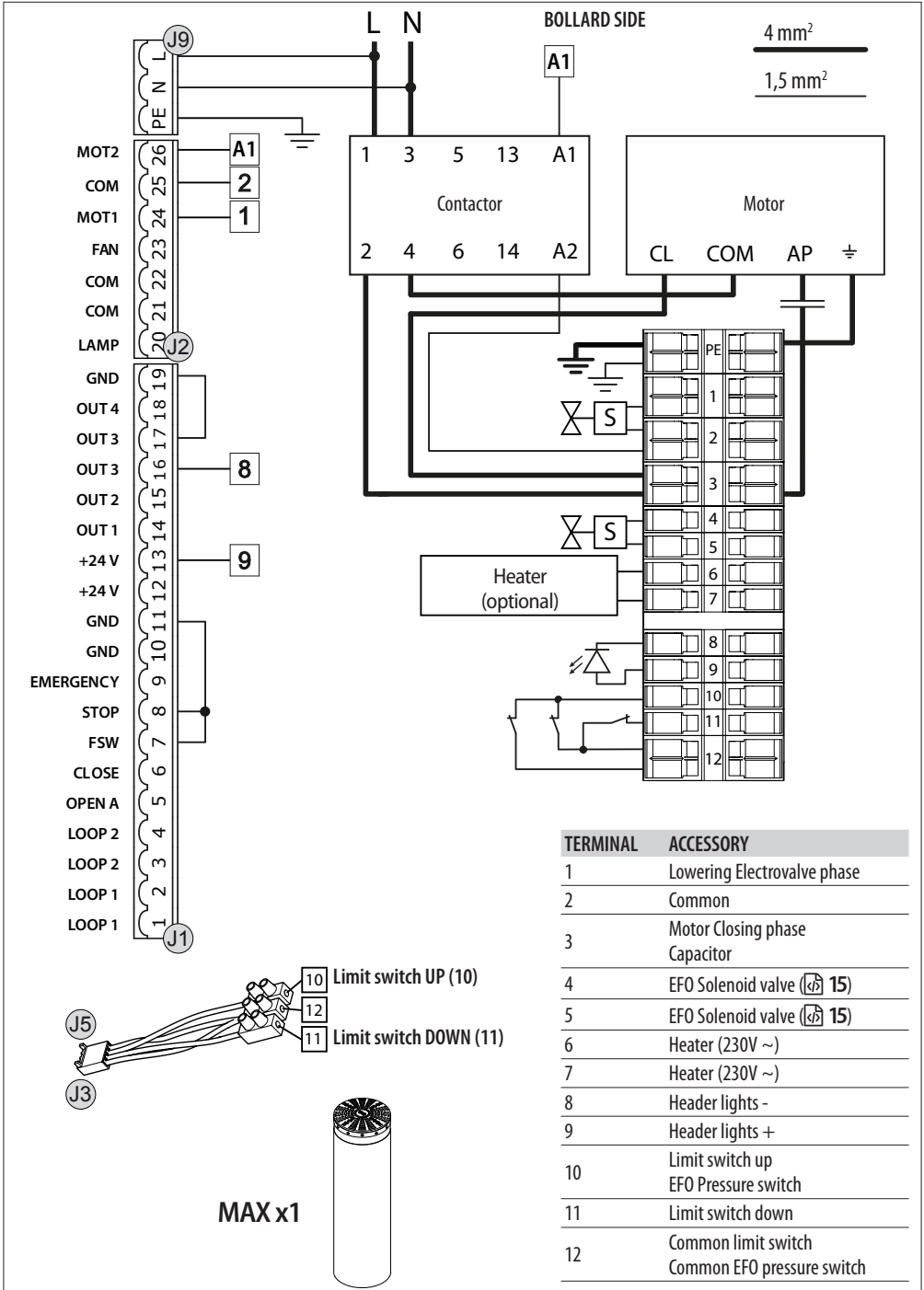
TERMINAL	ACCESSORY
1	Motor 1-2 phase 1
2	Common motor 1
3	Motor 1-2 phase 2
4	EFO Solenoid valve (15)
5	EFO Solenoid valve (15)
6	Heater (230V ~)
7	Heater (230V ~)
8	Header lights -
9	Header lights +
10	Limit switch up EFO Pressure switch
11	Limit switch down
12	Common limit switch Common pressure switch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



MAX x1



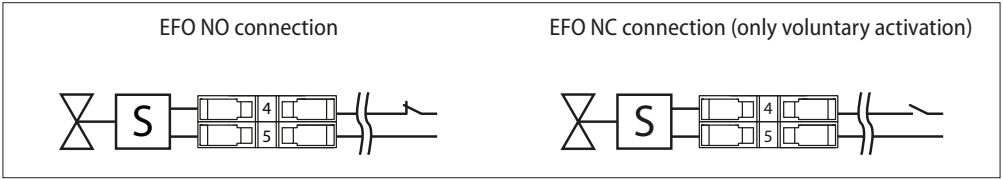
9. J355 M50 CONNECTION



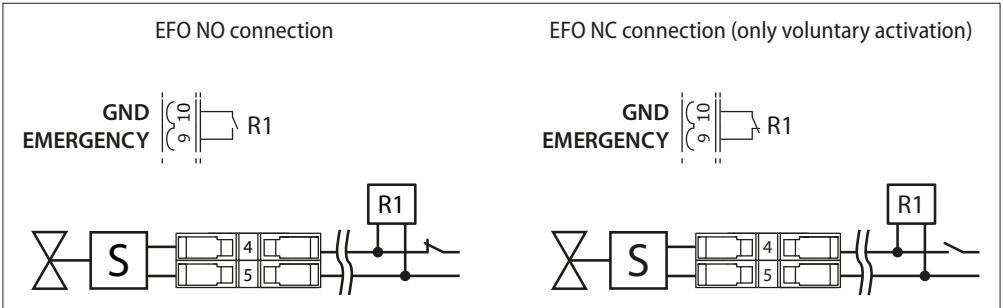
TERMINAL	ACCESSORY
1	Lowering Electrovalve phase
2	Common
3	Motor Closing phase Capacitor
4	EFO Solenoid valve (15)
5	EFO Solenoid valve (15)
6	Heater (230V ~)
7	Heater (230V ~)
8	Header lights -
9	Header lights +
10	Limit switch up EFO Pressure switch
11	Limit switch down
12	Common limit switch Common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

10. EFO CONNECTION

10.1 J355 M30



10.2 J355 M50





FAAC S.p.A. Soc. Unipersonale
Via Calari, 10 - 40069 Zola Predosa BOLOGNA - ITALY
Tel. +39 051 61724 - Fax +39 051 758518
www.faac.it - www.faacgroup.com