

Pendant stations

P02 - PTRM - P03 - DC16 - PL - DC30 - TLP Series

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TECHNO-CONTROL EQUIPMENT



Push button stations for small hoist applications, for control circuits in both single or double row versions, for control and direct switching power circuits, for tail lifts control.

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Pendant stations

P02 - PTRM - P03 - DC16 - PL - DC30 - TLP Series

General characteristics

According to the CE89/392 directives appendix IIB concerning machinery

GIOVENZANA

declares that P02 - P03 - PL - PLB pendant stations comply with the following standards:

Harmonised standards

EN292 part 1 and 2
(machine safety)
UNI EN ISO 9001
EN60529 (IP rating)

Standards and technical specifications

IEC 947-5-1
(low voltage equipment)
FEM 9.941
(operators' designation)

As stated in appendix V of the CE directives with regards to machinery

The technical documentation is held by the manufacturer.

The company Giovenzana, leader in lifting equipment control accessories, has designed the P02 - P03 - PL - PLB series pendant stations according to the relevant International standards

These new product series are the end result of a close investigation with regards to the operator's needs and requirements:

- Adequate cabling space
- Ease of use thanks to a light and user friendly pendant station
- Versatility of assembly allowing quick and easy replacement of the 22 Ø operators and their Pegasus contact blocks
- Each pendant station is provided with a new generation EN418 emergency stop incorporating a snap action actuation that prevents halting the machinery before the mushroom is in the locked position. Contacts are "positive opening" type.
- The following contacts are supplied as standard:
1NO for the movement (FEM 9.941)
1NC for emergency (EN418)
1NO+1NO for double speed
Optional accessories are always supplied separately and installed by the end user.

GENERAL CHARACTERISTICS

- Double insulated enclosures in thermoplastic self-extinguishing material
- IP65 rating according to EN60529
- Operating temperature -25 +70 °C
- Available from 2 up to 14 holes - 22 Ø - on single or double row
- Cable entry: P02 - PTRM - P03 - PL with variable section cable sleeve
DC16 - DC30 - TLP with cable clamp
- Mechanical life: push buttons and rotary switches
- 1 mil. operations
Latched emergency stops
- 0,3 mil. operations

CONTACT BLOCK CHARACTERISTICS

- VO UL94 self-extinguishing material
- Rated thermal current: 16A
- Rated insulation voltage: 690V
- Insulation category: Group CV VDE 0110
- Contact impedance: ≤25 MΩ
- Slow break self cleaning double gap contact block - Positive opening NC contact block
- Tripping force: 4N
- Terminal protection rating: IP20 - EN60529
- Max contact No.: 3
- UL A600 - Q 600 certified

Pendant stations

P02-PTRM Series for small hoist applications

IP65 □



TECHNO-CONTROL EQUIPMENT

P02

2 directions mechanically interlocked



ENGRAVING



DESCRIPTION

For single-speed motor control

No. 2 push buttons with 1 NO contact

No. 2 push buttons with 2 NO contacts

No. 2 push buttons with 1NC+1NO contacts

For two-speed motor control

No. 2 push buttons with NO contacts

For 1kW single-phase motor control

No. 2 push buttons with 1NC+2NO contacts

REFERENCE NO.

P02.1

P02.2

P02.4

P02.D2

P02.CD

WEIGHT gr

230

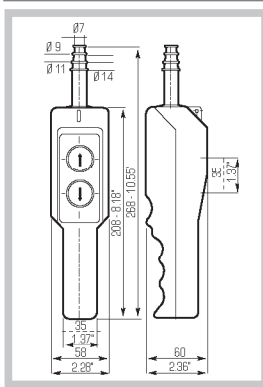
250

250

250

230

DIMENSIONS



ENGRAVING



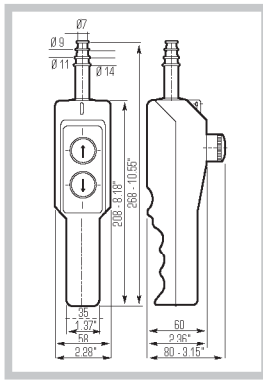
For single-speed motor control

No. 1 Emergency stop
ø 30 turn to release
EN418

No. 1 two way and off switch with spring return
Auxiliary
16A - 250V ac 1/2 HP

P02.RM

230



PTRM



ENGRAVING



DESCRIPTION

For single-speed motor control

Provision
for capacitor
45x90 Ø max

No. 1 Emergency stop
ø 30 turn to release
EN418

No. 1 two way and off switch with spring return
Auxiliary
16A - 250V ac 1/2 HP

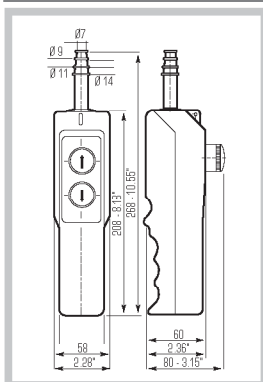
REFERENCE NO.

PTRM

WEIGHT gr

230

DIMENSIONS



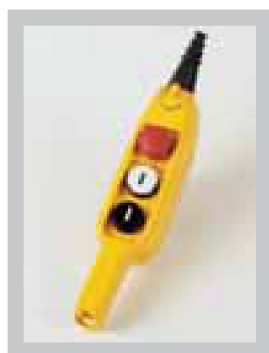
Pendant stations

P03 Series for small hoist applications

IP65 □

P03

2 directions mechanically interlocked



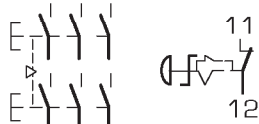
ENGRAVING



DESCRIPTION

For single-speed motor control
No. 1 Emergency stop
ø 30 turn to release
EN418 with:

No. 2 push buttons with 1 NO contact
No. 2 push buttons with 2 NO contacts
No. 2 push buttons with 3 NO contacts



REFERENCE NO.

P03.1

P03.2

P03.3

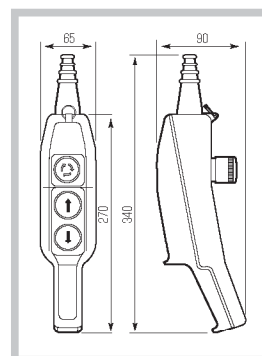
WEIGHT gr

440

450

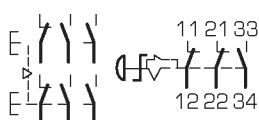
460

DIMENSIONS



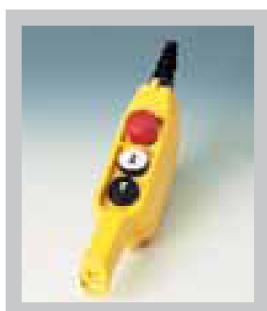
For 1kW single-phase motor control
No. 1 Emergency stop
ø 30 turn to release
EN418 with:

No. 2 push buttons with 1NC+2NO contacts



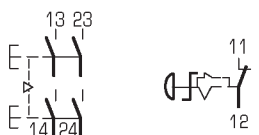
P03CD

460



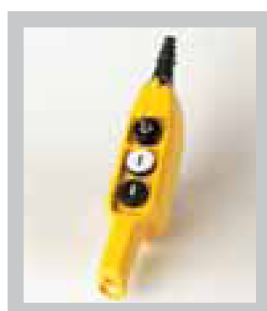
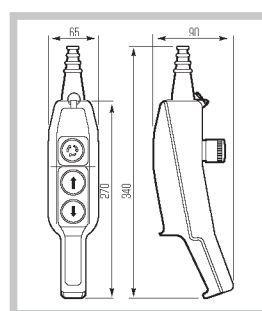
For two-speed motor control
No. 1 Emergency stop
ø 30 turn to release
EN418 with:

No. 2 push buttons with 1NC+2NO contacts



P03D2

460



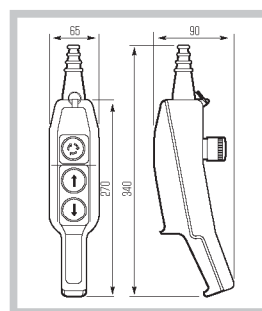
For single-speed motor control
No. 1 90° angle latched
key switch O-1 with 1 NO
contact and:

No. 2 push buttons with 1 NO contact



P03CH

460



Pendant stations

DC16 Series for small hoist applications

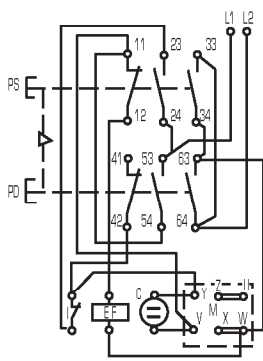
IP65 □



TECHNO-CONTROL EQUIPMENT

GENERAL CHARACTERISTICS

- Double insulated ABS enclosures
- IP65 protection rating according to IEC/EN 60529
- Ambient temperature: operating -25° +70° °C
storage -40° +70° °C
- Double gap slow break contacts
- Cable entry with M25 cable clamp
- Rated insulation voltage: U_i 690V
- Rated thermal current I_{th} : 16A
- Rated operating power: 400V ac -1kW



1KW DIRECT SWITCHING MOTOR WIRING DIAGRAM


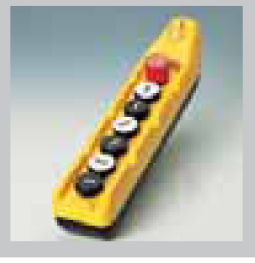
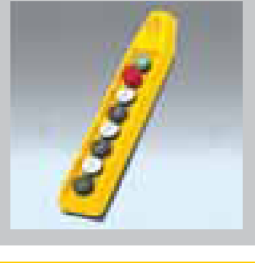
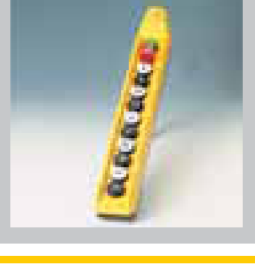
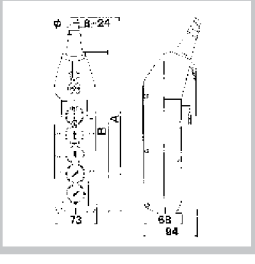
- PS UP push button
- PD DOWN push button
- I Top limit switch
- M Motor
- C Capacitor
- EF Electric break

2 directions mechanically interlocked	ENGRAVING	DESCRIPTION	REFERENCE NO.	WEIGHT gr	DIMENSIONS
	 	<p>For 1kW single-phase motor control</p> <p>No. 1 Emergency stop ø 30 turn to release EN418 with 2NC+1NO contacts and:</p> <p>No. 2 push buttons with 1NC+2NO contacts</p>	DC16	470	
	 	<p>For 1kW single-phase motor control</p> <p>No. 1 Emergency stop ø 30 turn to release EN418 with 2NC contacts and:</p> <p>No. 2 push buttons with 1NC+2NO contacts</p>			

Pendant stations

PL Series for control circuits

IP65 □ Single row

	PUSH BUTTONS	DESCRIPTION		REFERENCE NO.	WEIGHT gr
	4+1	For single-speed motor control 4 mechanically interlocked between pairs + 1 Emergency stop ø 30 turn to release EN418		PL05	560
	4+1	For two-speed motor control ▶▶ 4 mechanically interlocked between pairs + 1 Emergency stop ø 30 turn to release EN418	No. of 2-speed movements		
			2	PL05D2	590
			4	PL05D4	620
	6+1	For single-speed motor control 6 mechanically interlocked + 1 Emergency stop ø 30 turn to release EN418		PL07	740
	6+1	For two-speed motor control ▶▶ 6 mechanically interlocked between pairs + 1 Emergency stop ø 30 turn to release EN418	No. of 2-speed movements		
			2	PL07D2	770
			4	PL07D4	800
			6	PL07D6	830
	6+2	For single-speed motor control 6 mechanically interlocked between pairs + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418		PL08	830
	6+2	For two-speed motor control ▶▶ 6 mechanically interlocked between pairs + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418	No. of 2-speed movements		
			2	PL08D2	860
			4	PL08D4	890
			6	PL08D6	920
	8+2	For single-speed motor control 8 mechanically interlocked between pairs + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418		PL10	990
	10+2	For single-speed motor control 10 mechanically interlocked between pairs + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418		PL12	1.140
DIMENSIONS					
	PUSH BUTTONS	REFERENCE NO.	Amm	Bmm	
	5	PL05	345	288	
	7	PL07	495	358	
	8	PL08	530	393	
	10	PL10	640	463	
	12	PL12	710	533	
				For the push button designation and symbols please see page 123	
				Colour:	
				■ Black and white	
				■ Start/Alarm green	
				■ Emergency red	



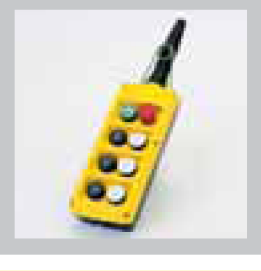
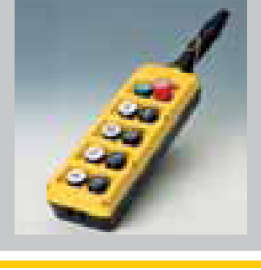
Pendant stations

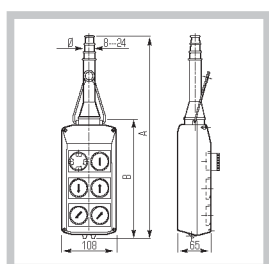
PLB Series for control circuits

IP65 □ Double row



TECHNO-CONTROL EQUIPMENT

	PUSH BUTTONS	DESCRIPTION	REFERENCE NO.	WEIGHT gr
	2+2	For single-speed motor control 2 mechanically interlocked + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418	PLB04	560
	2+2	For two-speed motor control 2 mechanically interlocked + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418	PLB04D2	590
	4+2	For single-speed motor control 4 mechanically interlocked between pairs + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418	PLB06	560
	4+2	For two-speed motor control 4 mechanically interlocked between pairs + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418	PLB06D2 PLB06D4	690 720
	6+2	For single-speed motor control 6 mechanically interlocked between pairs + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418	PLB08	840
	6+2	For two-speed motor control 6 mechanically interlocked between pairs + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418	PLB08D2 PLB08D4 PLB08D6	870 900 1.030
	8+2	For single-speed motor control No of operators mechanically interlocked	PLB10	1.150
	10+2	8 + 1 Start/Alarm + 1 Emergency stop ø 30 turn to release EN418	PLB12	1.270
	12+2	10 12	PLB14	1.390



DIMENSIONS			
PUSH BUTTONS	REFERENCE NO.	Amm	Bmm
4	PLB04	345	185
6	PLB06	399	239
8	PLB08	453	293
10	PLB10	547	347
12	PLB12	601	401
14	PLB14	655	455

For the push button designation and symbols please see page 123
Colour:

■ Black and white

■ Start/Alarm green

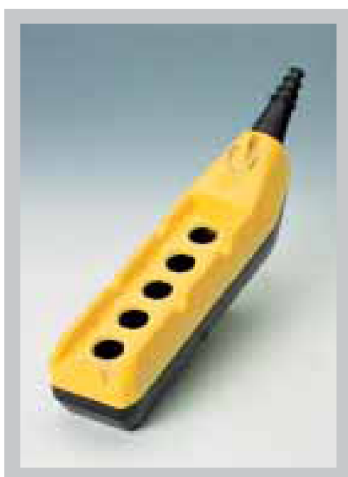
■ Emergency red

Pendant stations

PL series for control circuits

IP65 □ Enclosures

SINGLE ROW



NO OF HOLES	CABLE ENTRY Ø	REFERENCE NO.	WEIGHT gr	MIN. PACK QTY.
5	7...18	PL05K	410	1
7	9...21	PL07K	540	1
8		PL08K	600	1
10		PL10K	700	1
12		PL12K	800	1

DOUBLE ROW



NO OF HOLES	CABLE ENTRY Ø	REFERENCE NO.	WEIGHT gr	MIN. PACK QTY.
4	9...21	PLB04K	410	1
6		PLB06K	510	1
8		PLB08K	610	1
10	12...24	PLB10K	710	1
12		PLB12K	810	1
14		PLB14K	910	1

Enclosures are supplied with accessories with the exception of contact blocks and operators which must be purchased separately. Refer to page 121 for more information. For assembly instructions see page 124-125.

Pendant stations

For control and direct switching power circuits
Accessories



TECHNO-CONTROL EQUIPMENT

CONTACT BLOCKS



1 NC	PL004001
1 NO	PL004002

MULTI-SPEED CONTACT BLOCKS



2-SPEED 1NO+1NO PROGRESSIVE	PL004010
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LAMP HOLDERS



BA9s	PL004007
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LENS CAP



1	2	PL00800
3	4 5	

KEY SWITCH



0-1	PL006001
1-0-2	PL006002

ROTARY SWITCH



0-1	PL007001
1-0-2	PL007002

MUSHROOM OPERATOR Ø 30 TURN TO RELEASE EN418



WITH VISION STANDARD	PL013001 PL013002
-------------------------	----------------------

MUSHROOM OPERATOR Ø 40 EN418



PL013003

PUSH BUTTONS

COLOUR

REF. NO.

	PL005034
	PL005035
	PL005036
	PL005037
	PL005038
With engraving	PL0050...*

* See page 123



COUPLING PLATE



2 HOLES	PL003001
3 HOLES	PL003002

INTERLOCK



TOP	PL011001
BOTTOM	PL011002

CABLE CLAMP LEVER



PL012001

VERSIONS

P02 - PTRM
For 7...14 Ø cable

P03 - PL05
For 7...18 Ø cable

PL07...PL12
PLB04-PLB06
For 9...21 Ø cable

PLB08-PLB14
For 12...24 Ø cable

CABLE SLEEVE

REFERENCE NO.

12906011

12906006

12906004

12906005



Composition







































Pendant stations

For control and direct switching power circuits
Engravings



TECHNO-CONTROL EQUIPMENT

FEM 9.941 STANDARD

UP	DOWN	FORWARD	REVERSE	LEFT	RIGHT	SPIN LEFT	SPIN RIGHT	GREEN START	GREEN START ALARM
 PL005004	 PL005019	 PL005012	 PL005027	 PL005023	 PL005008	 PL005031	 PL005016	 PL005001	 PL005002
 PL005005	 PL005020	 PL005013	 PL005028	 PL005024	 PL005009	 PL005032	 PL005017	 PL005003	 PL005034
 PL005006	 PL005021	 PL005014	 PL005029	 PL005025	 PL005010	 PL005033	 PL005018	 PL005035	 PL005036
 PL005007	 PL005022	 PL005015	 PL005030	 PL005026	 PL005011			 PL005037	 PL005038

LASER ENGRAVING: Optional engravings can be made to order according to special customer specification (min. quantity applies)

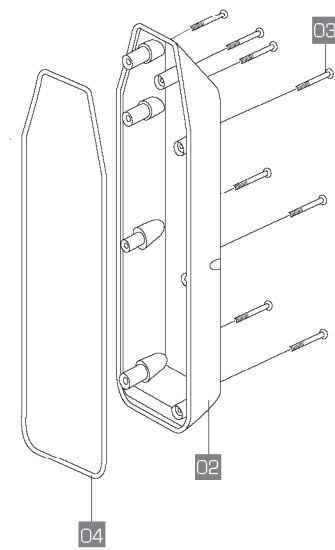
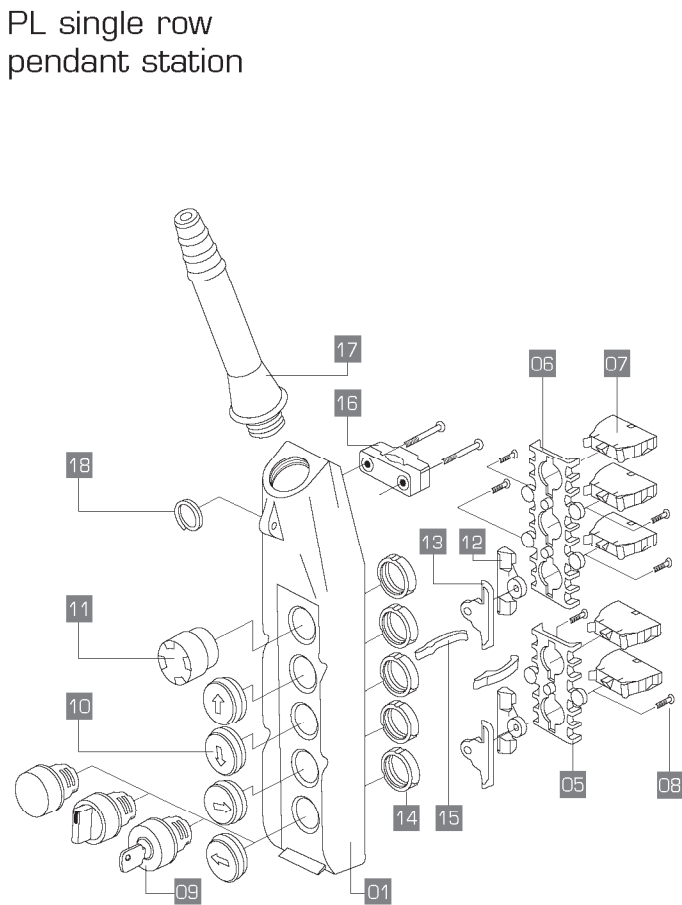
Pendant stations

For control and direct switching power circuits

Assembly

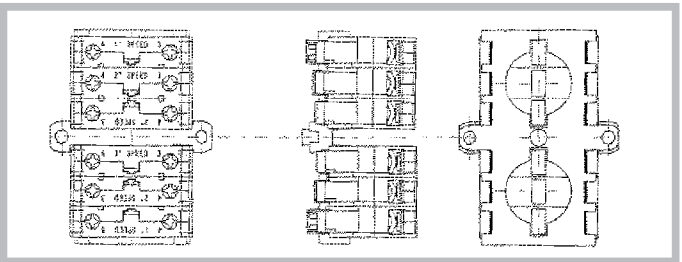
PL SERIES STANDARD VERSIONS

PL single row
pendant station



ASSEMBLY INSTRUCTION FOR 1-2-SPEED CONTACT BLOCKS

PL004010	PL004003 1-SPEED
	PL004004 2-SPEED



NO.	REF. NO.	DESCRIPTION	QTY.
01	PL00100.	SINGLE ROW PENDANT STATION COVER...PUSH BUTTONS	1
02	PL00200.	SINGLE ROW PENDANT STATION BASE...PUSH BUTTONS	1
03	11606022	SELF TAPPING STAINLESS STEEL SCREW 4X30	..
04	11901028	RUBBER GASKET Ø 25	MT...
05	PL003001	2-HOLES CONTACT BLOCKS SUPPORT	..
	PL003002	3-HOLES CONTACT BLOCKS SUPPORT	..
06	PL004005	1 NO CONTACT BLOCK	..
	PL004002	1 NO CONTACT BLOCK	..
07	PL004010	2-SPEED 1NO-1NO CONTACT BLOCK	..
	PL004007	LAMP HOLDER	..
08	11607007	SELF TAPPING SCREW 3.9X13	..
	PL00700.	ROTARY SWITCH I	..
09	PL00600.	KEY SWITCH	..
	PL00800.	PILOT LIGHT	..
10	PL0050..	ENGRAVED PUSH BUTTONS	..
11	PL013001	MUSHROOM OPERATOR TURN TO RELEASE WITH VISION	1
12	PL011002	BOTTOM MECHANICAL INTERLOCK	..
13	PL011001	TOP MECHANICAL INTERLOCK	..
14	11705100	M22 ZAMA LOCK NUTS	..
15	PL012001	CABLE CLAMP LEVER	..
16	12904014	CABLE CLAMP	1
	12906006	PL05 CABLE SLEEVE	..
17	12906004	PL07 - PL08 CABLE SLEEVE	..
	12906005	PL10 - PL12 CABLE SLEEVE	..
18	12003009	SUNSPENSION RING	1

Pendant stations

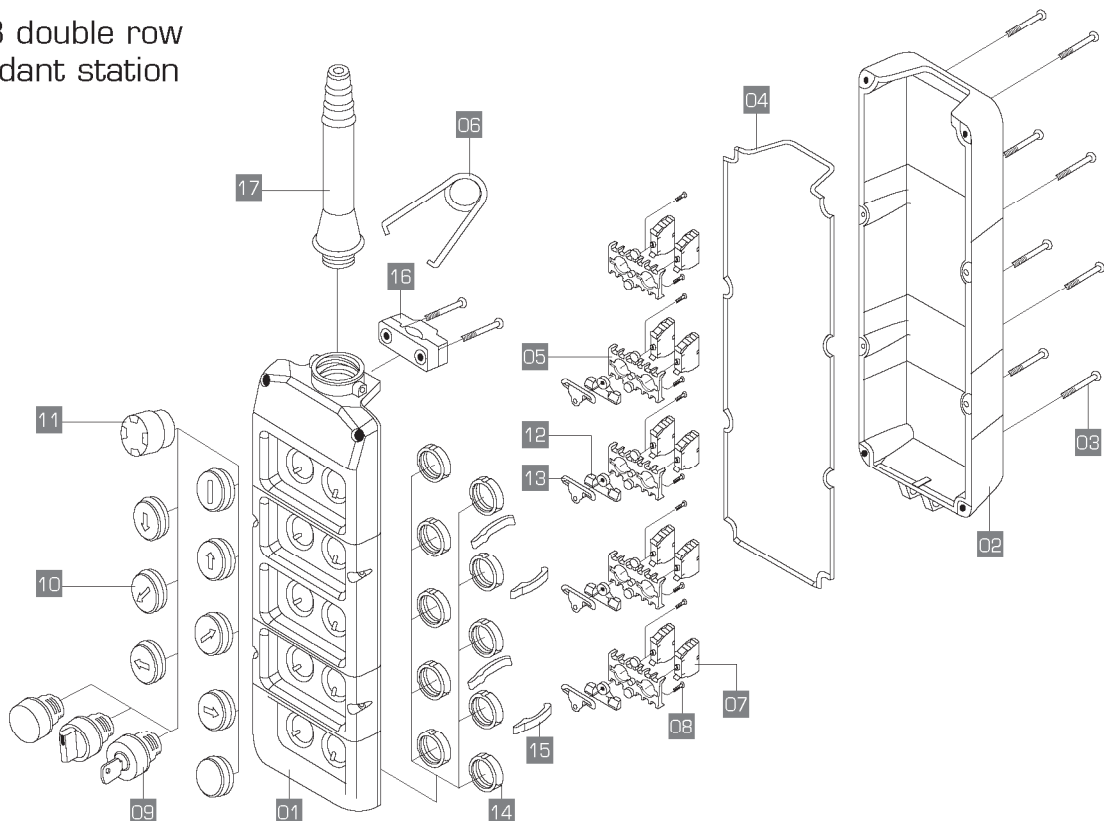
For control and direct switching power circuits
Assembly



TECHNO-CONTROL EQUIPMENT

PLB SERIES STANDARD VERSIONS

PLB double row
pendant station



NO.	REF. NO.	DESCRIPTION	QTY.
01	1170807.	DOUBLE ROW PENDANT STATION COVER...PUSH BUTTONS	1
02	1171004.	DOUBLE ROW PENDANT STATION BASE...PUSH BUTTONS	1
03	11606022	SELF TAPPING STAINLESS STEEL SCREW 4X30	..
04	11901035	RUBBER GASKET Ø 2	MT..
05	PL003001	2-HOLE CONTACT BLOCKS SUPPORT	..
06	12001021	SUNSPENSION RING	1
07	PL004001	1 NC CONTACT BLOCK	..
	PL004002	1 NO CONTACT BLOCK	..
	PL004010	2-SPEED 1NO+1NO CONTACT BLOCK	..
	PL004007	LAMP HOLDER	..
08	11607007	SELF TAPPING SCREW 3.9X13	..
	PL00700..	ROTARY SWITCH	..
09	PL00600..	KEY SWITCH	..
	PL00800..	PILOT LIGHT	..
10	PL0050....	ENGRAVED PUSH BUTTONS	..
11	PL013001	MUSHROOM OPERATOR TURN TO RELEASE WITH VISION	1
12	PL011002	BOTTOM MECHANICAL INTERLOCK	..
13	PL011001	TOP MECHANICAL INTERLOCK	..
14	11705100	M22 ZAMA LOCK NUTS	..
15	PL012001	CARIFI CI AMP I FVFR	..
16	12904008-09	CABLE CLAMP	1+1
17	12906004	PLB04 - 06 - 08 CABLE SLEEVE	..
	12906005	PLB10 - 12 - 14 CABLE SLEEVE	..