



GIOVENZANA
INTERNATIONAL B.V.

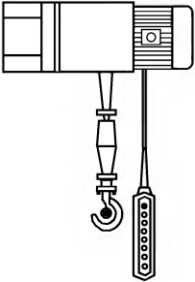
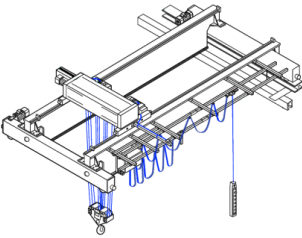
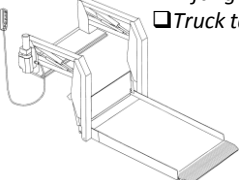


HANDLING SYSTEM



Pendant stations for small hoist application, in single / double row or direct power circuits switchings and tail lift controls. page 12 to 25

Giovenzana International Company, leader in lifting equipment control, makes a wide range of standard products for all installation requirements, and all built to high quality specification and safety guidelines. The Lift Equipment products series comply with: IEC 947-5-1, EN60947-5-1, UL508 and use: IEC 204-1, EN60204-1, EN ISO 13850, all achieved according to the needs and requirements of Cee 89/392. All operators are coloured and the laser-engraved, indelible legends comply with EN60204-1 and FEM 9.941. CERTIFICATIONS: The pendant stations P02, P03 , HP03, PL series can be certificated cUL.

Use (recommended)	Line	Picture	Characteristic
 □ Hoist	P02		Two push button pendant stations for small hoist : • single speed or two speed motor • direct motor control 1kW – 1speed • available in UL/CSA requirements
	page 12	(item available in kit-form,: enclosure, contact block and operator available separately for customization)	
	P03		Three push button pendant stations for small hoist: • single speed motor or two speed motor • direct motor control 1kW – 1speed • available in UL/CSA requirements
	page 12	(item available in kit-form,: enclosure, contact block and operator available separately for customization)	
	HP03	 <i>Ergonomic! design</i>	Ergonomic pendant stations for small hoist : • single speed motor • two speed motor • available in UL/CSA requirements •  <u>safety line available page 25</u>
	page 12	(item available in kit-form,: enclosure, contact block and operator available separately for customization)	
 □ Overhead crane	DC30	 <i>High power!</i>	Pendant stations for high power hoist: • direct motor control single phase and three phase • lth 25A - 1phase/2poles 230...400V 2.2kW 3phase/3poles 230...400V 4kW
	page 12		
	PL		SINGLE-row pendant stations for crane control circuits: • single speed motor or two-speed motor • available in different configuration with 5-7-8-10-12 holes • available in UL/CSA requirements
	page 14	(item available in kit-form,: enclosure, contact block and operator available separately for customization)	
	PLB		DOUBLE-row pendant stations for crane control circuits: • single speed motor • two speed motor • available in different configuration with 4-6-8-10-12-14 holes
	page 15	(item available in kit-form,: enclosure, contact block and operator available separately for customization)	
 □ Lifting platform □ Truck tails lift	TLP	 <i>Compact! design</i>	Compact pendant stations for lifting platform and tails lift application (pendant or wall fixing)
	page 16	(item available in kit-form,: enclosure, contact block and operator available separately for customization)	

Pendant stations

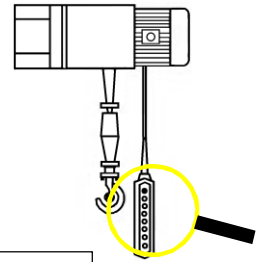


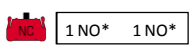
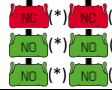
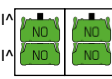
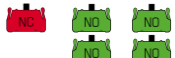
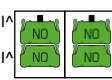
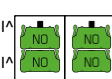
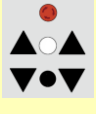
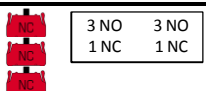
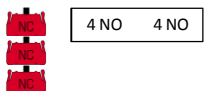
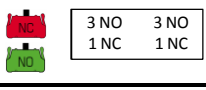
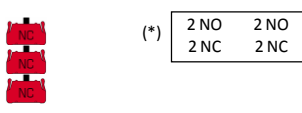
Hoist control: **P02 P03 HP03 DC30**

LIFTING EQUIPMENT

Characteristics:

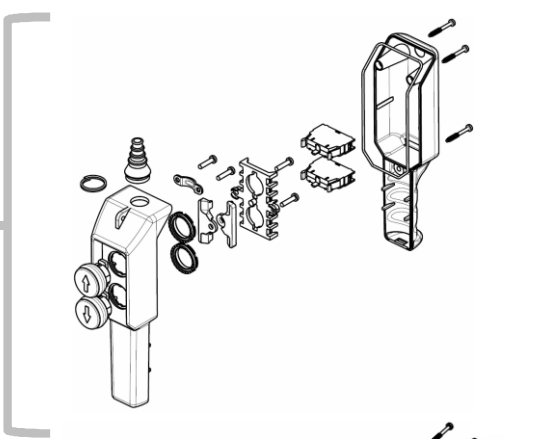
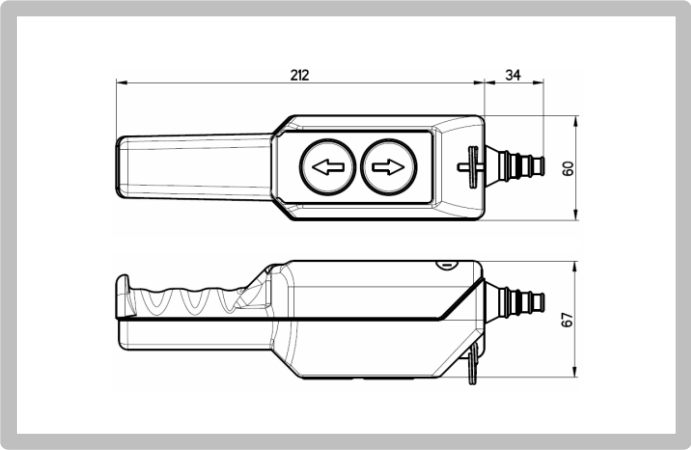
- ☐ Bi-directional, mechanically interlocked
- ☐ IP 65 double insulation IEC/EN60529 ☐
- ☐ General and electrical data page 23
- ☐ Laser engraved symbols comply with EN60204-1, FEM 9.941
- ☐ Shock proof and heat resistant



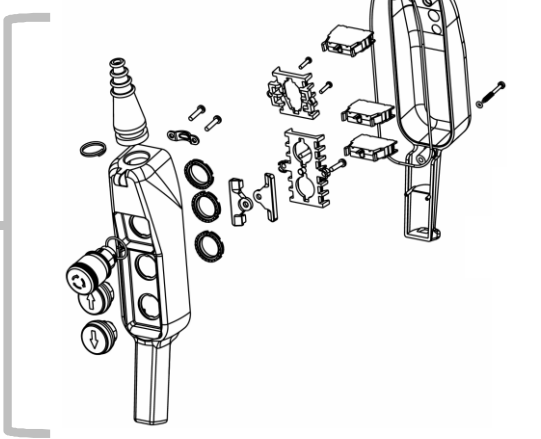
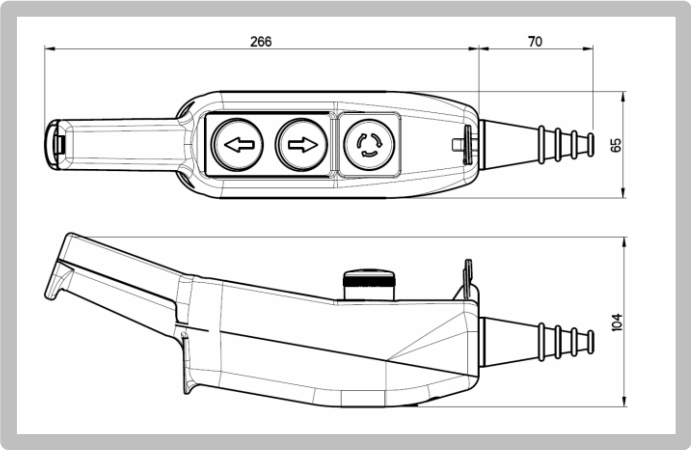
PICTURE	LAYOUT	CONFIGURATION	CODE	CONTACT TYPE	WEIGHT [gr]
P02  KIT Available See pg. 18 Available in UL/CSA req.		SINGLE SPEED (* TILTING BUTTON 16A – 250Vac ½ HP)	P02.RM		230
		SINGLE SPEED	P02.1		230
			P02.2		250
			P02.4		250
		(*) HIGH POWER CONTACTS DIRECT MOTOR CONTROL 1Kw 1ph	P02.CD		230
		TWO SPEED	P02.D2		250
P03  KIT Available See pg. 18 Available in UL/CSA req.		SINGLE SPEED	P03.1		440
			P03.2		450
			P03.3		460
			P03CD		460
		TWO SPEED	P03D2		460
HP03  Available in UL/CSA req.		SINGLE SPEED	HP03		330
		TWO SPEED	HP03.D2		350
DC30 		SINGLE SPEED	DC30		600
			DC30.RG		600
			DC30.GE		600
		TWO SPEED (* Ith 25A EXTRA HIGH POWER CONTACTS BLOCK FOR DIRECT MOTOR CONTROL : 2.2kW 1ph / 4kW 3ph	DC30D2		650



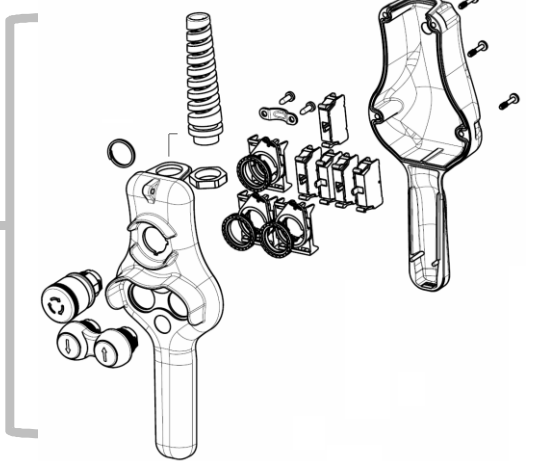
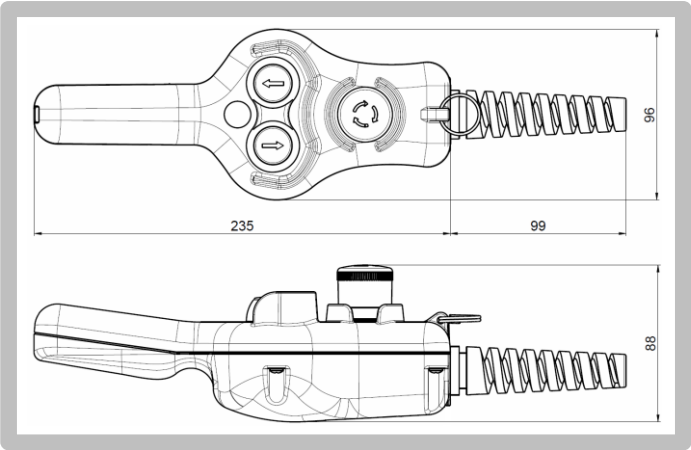
P02



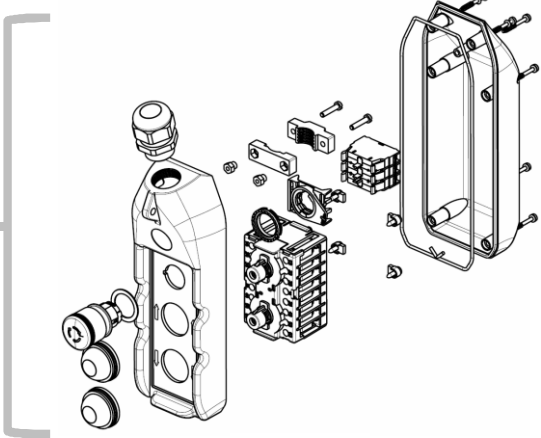
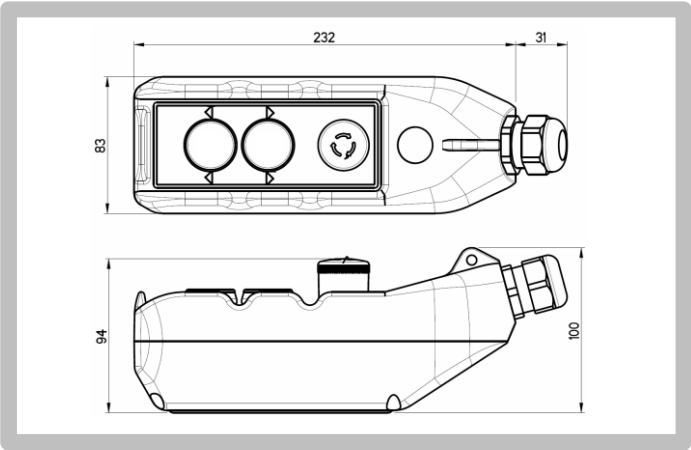
P03



HP03



DC30



LIFTING EQUIPMENT

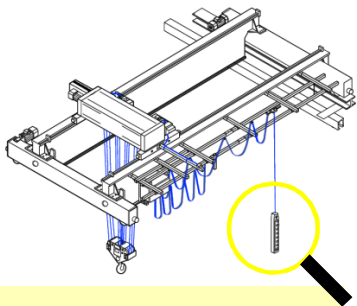


KT
Available
See pg. 18

Available in
UL/CSA req.

Characteristics:

- ☐ Bi-directional, mechanically interlocked
- ☐ IP 65 double insulation IEC/EN60529 ☐
- ☐ General and electrical data page 23
- ☐ Laser engraved symbols comply with EN60204-1, FEM 9.941
- ☐ Shock proof and heat resistant
- ☐ Available in UL/CSA requirements



CODE	PL05/E	PL05D2/E	PL05D4/E	PL07/E	PL07D2/E	PL07D4/E	PL07D6/E	PL08/E	PL08D2/E	PL08D4/E	PL08D6/E	PL10/E	PL12/E
weight [gr.]	600	625	655	800	830	855	880	890	915	945	970	1.105	1.290
N° push button	5	5	5	7	7	7	7	8	8	8	8	10	12

L
length [mm]

345	345	345	495	495	495	495	530	530	530	530	640	710
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LAYOUT

DIMENSIONS

PUSH BUTTON TYPE – CONTACT TYPE COUPLED							

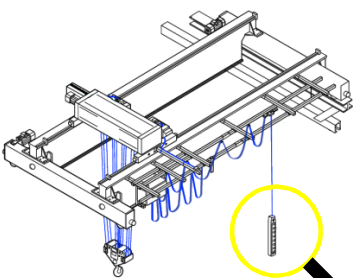


KIT
Available
See pg. 18



Characteristics:

- ☐ Bi-directional, mechanically interlocked
- ☐ IP 65 double insulation IEC/EN60529 ☐
- ☐ General and electrical data page 23
- ☐ Laser engraved symbols comply with EN60204-1, FEM 9.941
- ☐ Shock proof and heat resistant



LIFTING EQUIPMENT

CODE	PLB04/E	PLB04D2/E	PLB06/E	PLB06D2/E	PLB06D4/E	PLB08/E	PLB08D2/E	PLB08D4/E	PLB08D6/E	PLB10/E	PLB12/E	PLB14/E
weight [gr.]	530	555	700	730	755	860	895	920	945	1.080	1.245	1.445
N° push button	4	4	6	6	6	8	8	8	8	10	12	14
L lenght [mm]	345	345	399	399	399	453	453	453	453	547	604	655
LAYOUT												
DIMENSIONS												
TIPO DI PULSANTE – TIPO DI CONTATTO ABBINATO												

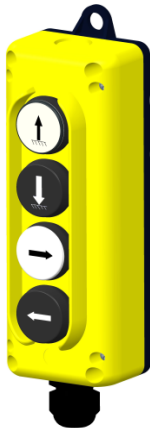


LIFTING EQUIPMENT

KT
Available
See pg. 18

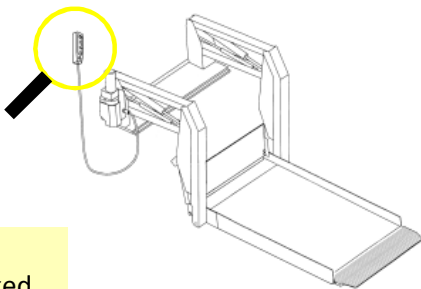


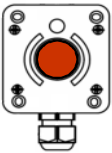
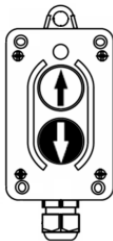
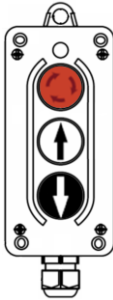
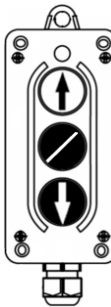
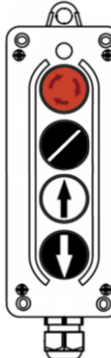
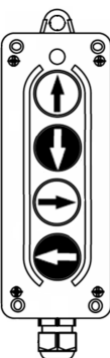
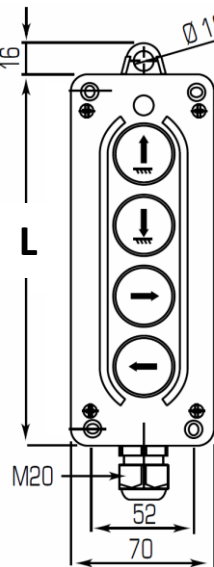
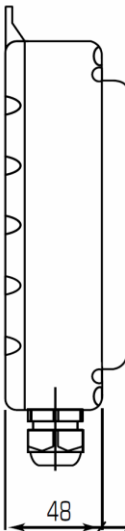
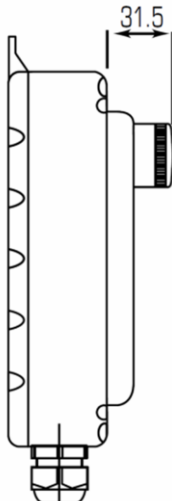
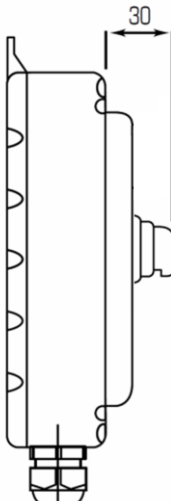
MOBILE-PENDANT FIXING (with WALL BRACKET accessories) WALL FIXING



Characteristics:

- Compact and modern design
- Bi-directional, mechanically interlocked
- IP 65 double insulation IEC/EN60529 □
- General and electrical data page 23
- Laser engraved symbols comply with EN60204-1, FEM 9.941
- Contact block with spring cage terminal
- Shock proof and heat resistant
- Mobile-Pendant (with wall bracket accessories) or wall fixed mounting



CODE	TLP1.EPP	TLP1.ESR	TLP2	TLP3.B	TLP3.D	TLP4.E	TLP4.C																		
weight [gr.]	120	120	200	255	255	314	314																		
N° push button	1	1	2	3	3	4	4																		
L length [mm]	80	80	115	150	150	185	185																		
LAYOUT	 push pull	 twist release																							
DIMENSIONS																									
			With Emergency Stop	With Selector Switch																					
						<table><tr><th colspan="4">PUSH BUTTON TYPE CONTACT TYPE COUPLED</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	PUSH BUTTON TYPE CONTACT TYPE COUPLED																		
PUSH BUTTON TYPE CONTACT TYPE COUPLED																									
																									
																									
																									



PL004 line



P02



P03



DC30
(e-stop only)



PL



PLB

NC



PL004001

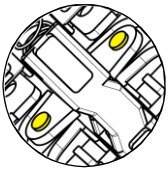
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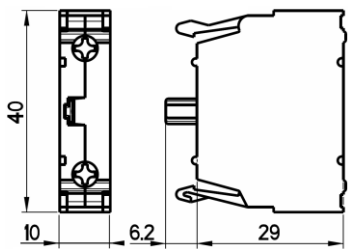
PL004002

Clamping screw M3.5 terminal with mobile "bent tile" plate that works with cables of different section

Simply
Contact
Point



Dimensions



Markings



Technical data see page 23

PCW line

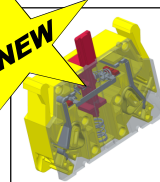


HP03



TLP

NEW



Safety contact block

Code: PCW01FT (see page 24)
An important step in accident prevention!



NC



PCW01

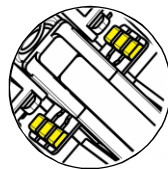
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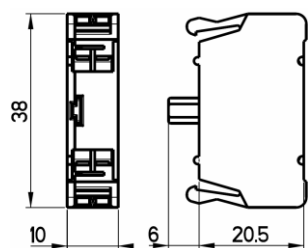
PCW10

Spring cage terminal with two separated plates that works with cables with different section

Three
Contact Point
safe & durable
energy transmission



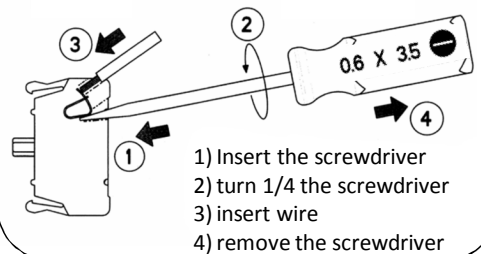
Dimensions



Markings



Spring cage terminal:





LIFTING EQUIPMENT

STEP 1
Choose station type



P02



P03



PL



PLB



TLP



HOLES n°	CODE	WEIGHT [gr]
2	P02K	180
3	P03K	258
5	PL05K	410
7	PL07K	540
8	PL08K	600
10	PL10K	700
12	PL12K	800
4	PLB04K	410
6	PLB06K	510
8	PLB08K	610
10	PLB10K	710
12	PLB12K	810
14	PLB14K	910
1	TLP1K	100
2	TLP2K	130
3	TLP3K	160
4	TLP4K	200



STEP 2

Choose OPERATOR

STEP 3

Choose CONTACT TYPE

LIFTING EQUIPMENT

(*) Symbols according to FEM 9.941
Customized engraving available (min. quantity applies)

(*)

 PL005019	 PL005004	GREEN START PL005001 ALARM	GREEN START ALARM PL005002 BLUE	MUSHROOM OPERATOR Ø 30 TURN TO RELEASE EN ISO 13850 WITH VISION STANDARD PL013001 PL013002
 PL005027	 PL005012	 PL005003 WHITE	 PL005034 BLACK	MUSHROOM OPERATOR Ø 40 PL013003
 PL005023	 PL005008	 PL005035 RED	 PL005036 GREEN	MUSHROOM OPERATOR Ø 40 KEY RELEASE PPFN1C4NX
 PL005020	 PL005005	KEY SWITCH 0-1 90° PL006001 1-0-2 45° PL006002 0<1 45° PL006004 (key removable in "0")	ROTARY SWITCH 0-1 90° PL007001 1-0-2 45° PL007002 1>0<2 45° PL007003	LENS CAP PL00800. 1 2 3 4 5

P02-P03-PL-PLB

TLP

CONTACT BLOCKS

NC NO

1 NC	PL004001
1 NO	PL004002

CONTACT BLOCKS

NC NO

1 NC	PCW01
1 NO	PCW10

LED LAMP

POWER SUPPLY	CODE
AC/DC 12V	PL0045L12
AC/DC 24V	PL0045L24
AC/DC 48V	PL0045L48
AC/DC 110V	PL0045L110
AC 220V	PL0045L220

LAMP HOLDERS

BA9s PL004007

LED LAMP

POWER SUPPLY	CODE
AC/DC 12V	PCW5L12
AC/DC 24V	PCW5L24
AC/DC 48V	PCW5L48
AC/DC 110V	PCW5L110
AC 220V	PCW5L220

LAMP HOLDERS

BA9s PCWAD

(*)

 PL005021	 PL005006
 PL005029	 PL005014
 PL005025	 PL005010

NOT for TLP

MULTI-SPEED CONTACT BLOCKS

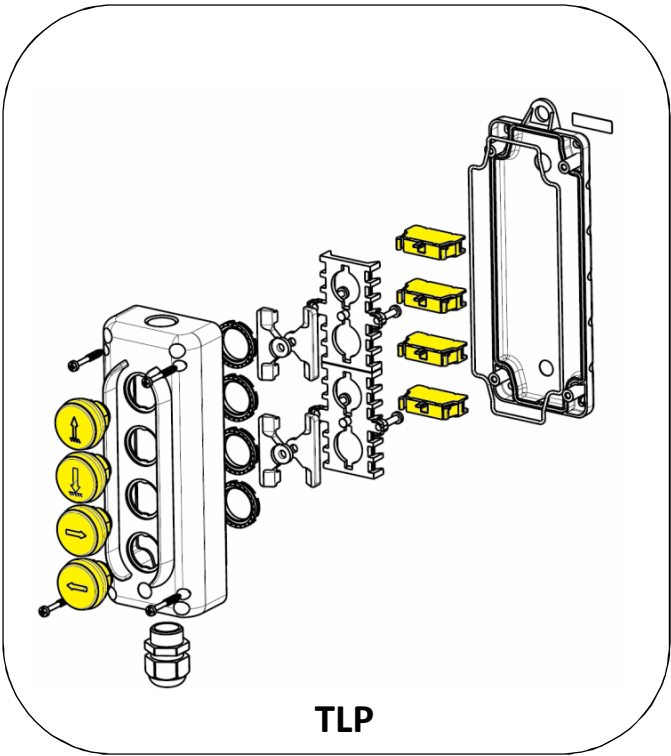
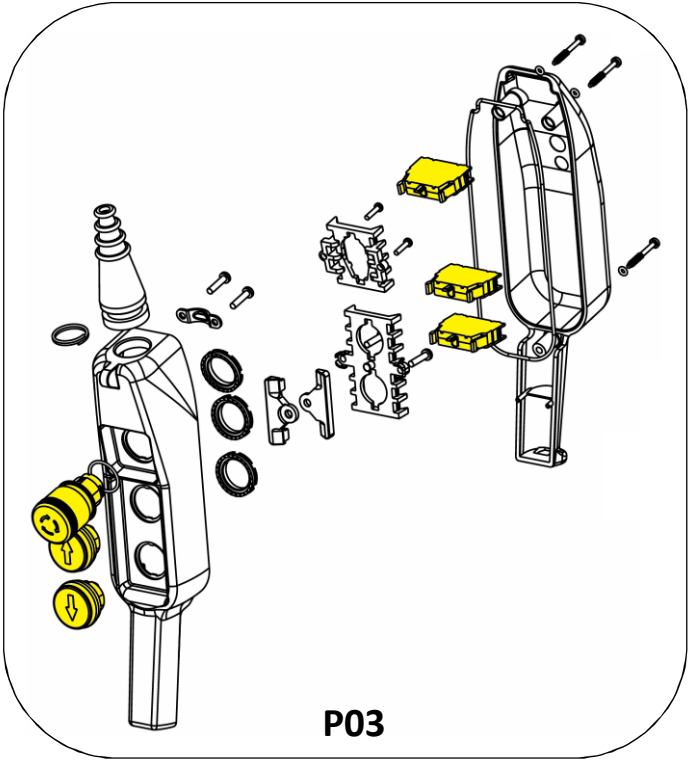
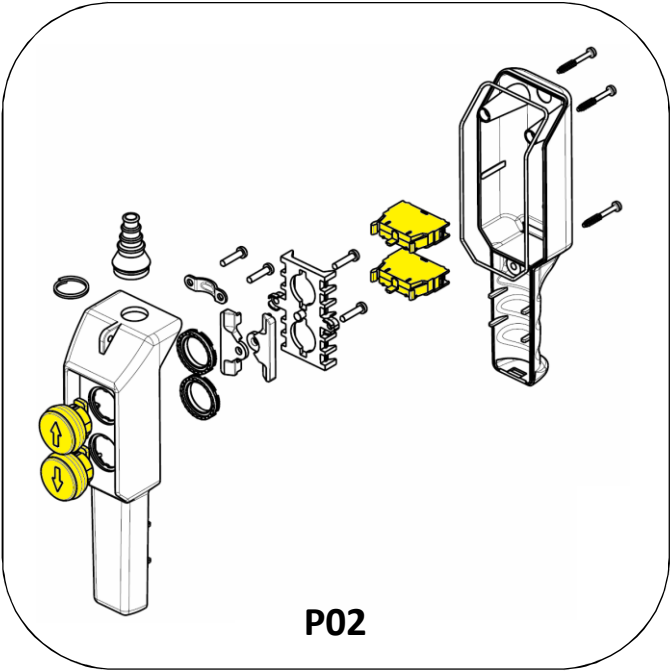
DOUBLE STEP
1NO+1NO PL004010

HOLE PLUG

PL015001

STEP 4

Mounting
instructions



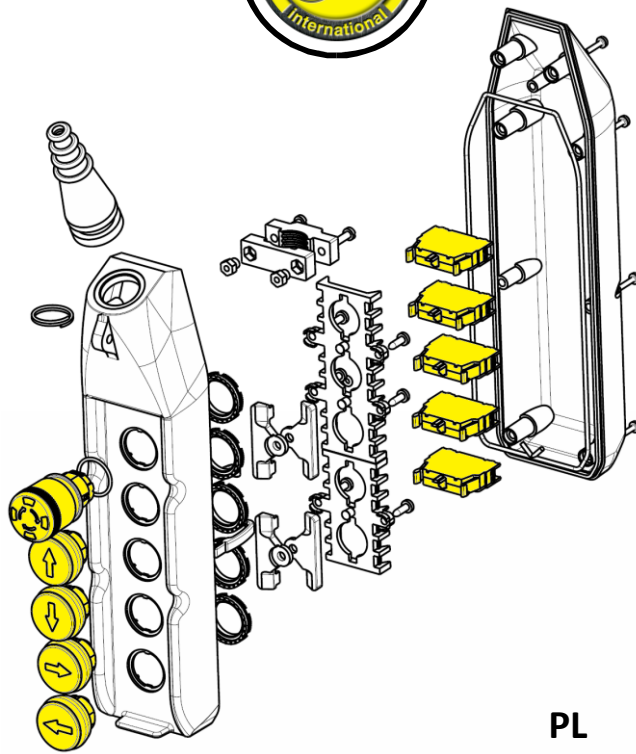
STEP 1
kit enclosures include

- Pendant stations (box, screws, gasket)
- Cable sleeve
- Cable clamp
- Suspension ring
- Push button interlock

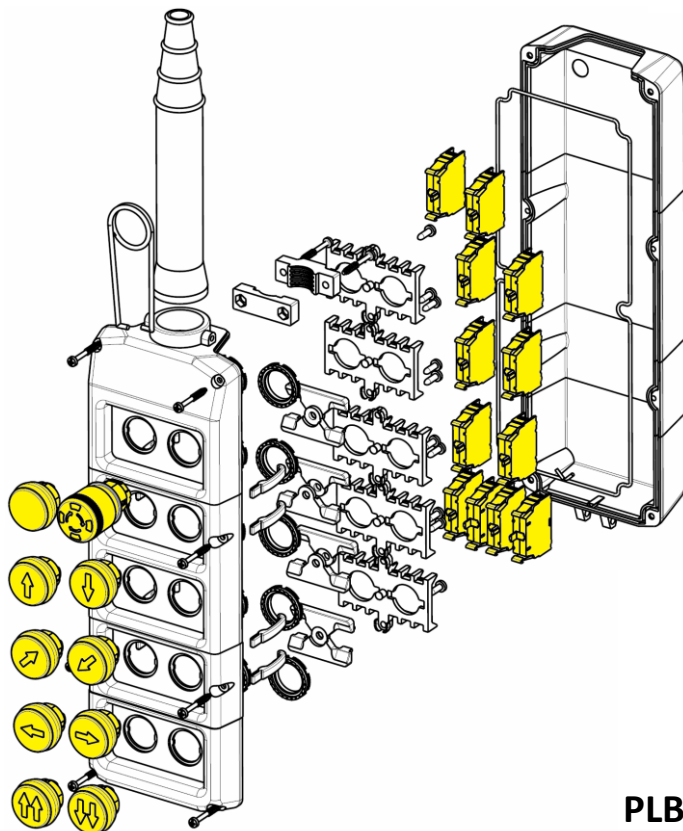
STEP 2-3
(item in yellow colour)

- Contact block
- Push buttons

must be choosen and purchased separately from
the enclosure kit



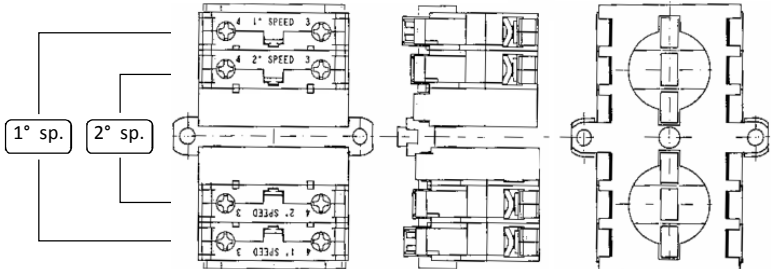
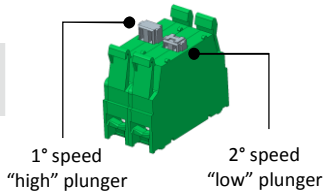
PL



PLB

ASSEMBLY INSTRUCTION FOR
1^a - 2^a SPEED CONTACT BLOCKS

PL004010





SPARE PARTS:

P02 – P03 – PL – PLB – TLP

COUPLING PLATE

2 HOLES	PL003001
3 HOLES	PL003002

INTERLOCK

TOP	PL011001
BOTTOM	PL011002

CABLE CLAMP LEVER

PL012001

CABLE SLEEVE

VERSION	CODE
P02 cable Ø 7...14	12906011
P03 - PL05 cable Ø 7...18	12906006
PL07...PL12 PLB04-PLB06 cable Ø 9...21	12906004
PLB08-PLB14 cable Ø 12...24	12906005

NOT for TLP

NOT for TLP

❑ Operators and contacts block codes please go to page 19

DC30

CONTACT BLOCKS

mechanical interlock

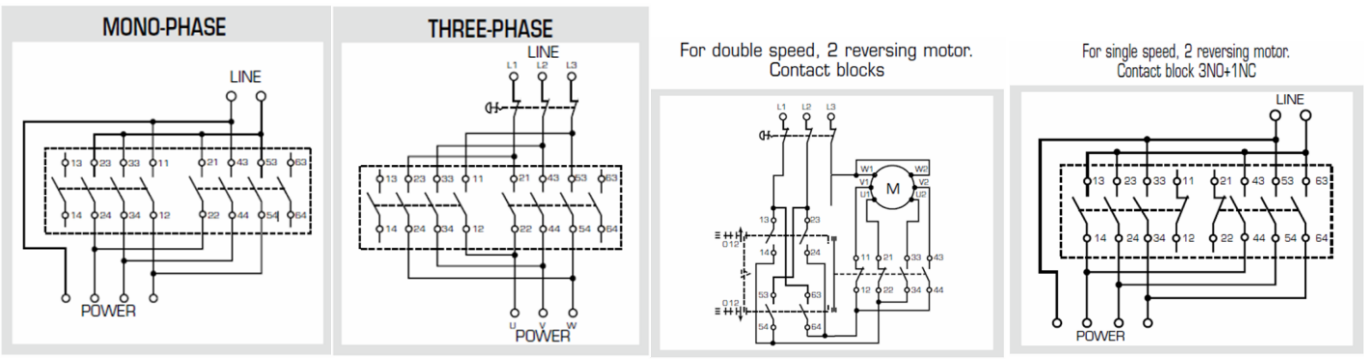
	CODE	FOR
 3NO+1NC	30205085	DC30 DC30.GE
 4NO	30205087	DC30.RG

	CODE	FOR
 4NO (2NO+2NC progressive)	30205086	DC30D2

RUBBER BUTTON COVER

COLOUR	CODE
Black	11901044
White	11901046

DRAWINGS EXAMPLES
POWER CIRCUITS



TLP ACCESSORIES

WALL BRACKET

HOLES	CODE
1...3	16000061
4	16000062

SPIRAL CABLE GLAND

CODE
12901054

AUXILIARIES CIRCUIT

1 SPEED

2 SPEED

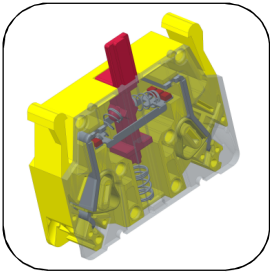
SNAP ACTION

EMERGENCY



Note: P02 – P03 – HP03 – PL line available in UL/CSA requirements

General characteristics			P02 – P03 – HP03 – PL – PLB – TLP									DC30	
In conformity to standards			IEC / EN60947-5-1									IEC / EN60947-3	
Material			P02	P03	HP03	PL	PLB	TLP	ABS				
			PP	ABS	ABS	ABS	ABS	PP					
Material group			II									II	
Pollution class			3									3	
Climate temperature	operating		-25°C + 70°C									-25°C + 70°C	
	storage		-30°C + 70°C									-30°C + 70°C	
Climate resistance	IEC68 part 2-3		hot damp									hot damp	
	IEC68 part 2-30		unsettled hot damp									unsettled hot damp	
Cable entry			▪ P02 – P03: rubber cable sleeve Ø7...18mm ▪ PL – PLB: rubber cable sleeve Ø9...24mm ▪ HP03: spiral cable gland M20 – TLP: cable gland M20									cable gland M25	
Electrical characteristics contact blocks			P02 – P03 – HP03 – PL – PLB – TLP									DC30	
Markings			    									 	
Rated insulation voltage [Ui]			690V									500V	
Rated thermal current [Ith]			16A									25A	
Rated impulse withstand voltage [Uimp]			4kV									4kV	
Frequency			50Hz – 50/60 Hz type PCW (HP03-TLP)									50Hz	
Rated operating current [Ie]													
AC-15 alternate current			(V)	24	60	110	240	400	440	500	690		
	type: PL004.. P02/P03/DC30 e-stop/PL/PLB		(A)	16	12	8	6	4	3.5	3	1	-	
	type: PCW.. HP03-TLP		(A)	10	8	6	5	4	4	4	2	-	
DC-13 direct current			(V)	24	48	60	110	220	250				
	type: PL004.. P02/P03/DC30 e-stop/PL/PLB		(A)	2	1.2	0.85	0.4	0.25	-				-
	type: PCW.. HP03-TLP		(A)	2	2	1	0.4	-	0.4				-
AC-3 alternate current	1phase-2poles 230V-400V		-									2.2kW	
	3phase-3poles 230V-400V		-									3kW	
Conditional short circuit withstand current			1000A									1000A	
Fuse rating			gG 10A - 500V									aM 12A - 500V	
Contact insulation resistance			≤ 25mΩ									-	
Switching mechanism	type: PL004.. P02/P03/DC30 e-stop/PL/PLB		slow break double gap contacts single pad									slow break double gap contacts single pad	
	type: PCW.. HP03-TLP		slow break double gap contacts three pads										
Positive operation			NC contact block 									-	
Terminal type	type: PL004.. P02/P03/DC30 e-stop/PL/PLB		M3.5 screw									M3.5 screw	
	type: PCW.. HP03-TLP		spring cage terminal										
Terminal capacity	type: PL004.. P02/P03/DC30 e-stop/PL/PLB		No. 1 or 2 flexible and solid conductor min 1 max 2.5 mm²									No. 1 or 2 flexible and solid conductor min 1 max 2.5 mm²	
	type: PCW.. HP03-TLP		No. 1 or 2 flexible and solid conductor min 0.5 max 2.5 mm²										
UL508 characteristics													
General use		600V ac		16A							-		
Designation code (HD) Heavy Duty				A600-Q600							-		



Safety contact block

Code: PCW01FT
(Family line PCW: spring cage terminal – see page 17)
An important step in accident prevention!

Giovenzana International B.V. has developed a new technology in the field of industrial and lift automation. The product is designed to maximize the performance of the NC mushroom e-stop contact which results in a risk factor of zero.

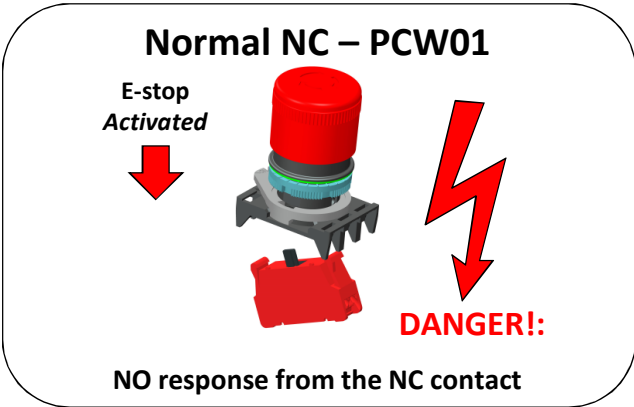
The NC contact will open in the event of accidental release of the contact block from the base.

In the unlikely event of mechanical failure or support breaking, the contact block is designed to intervene and open the circuit. This will block any further operation of the machine.

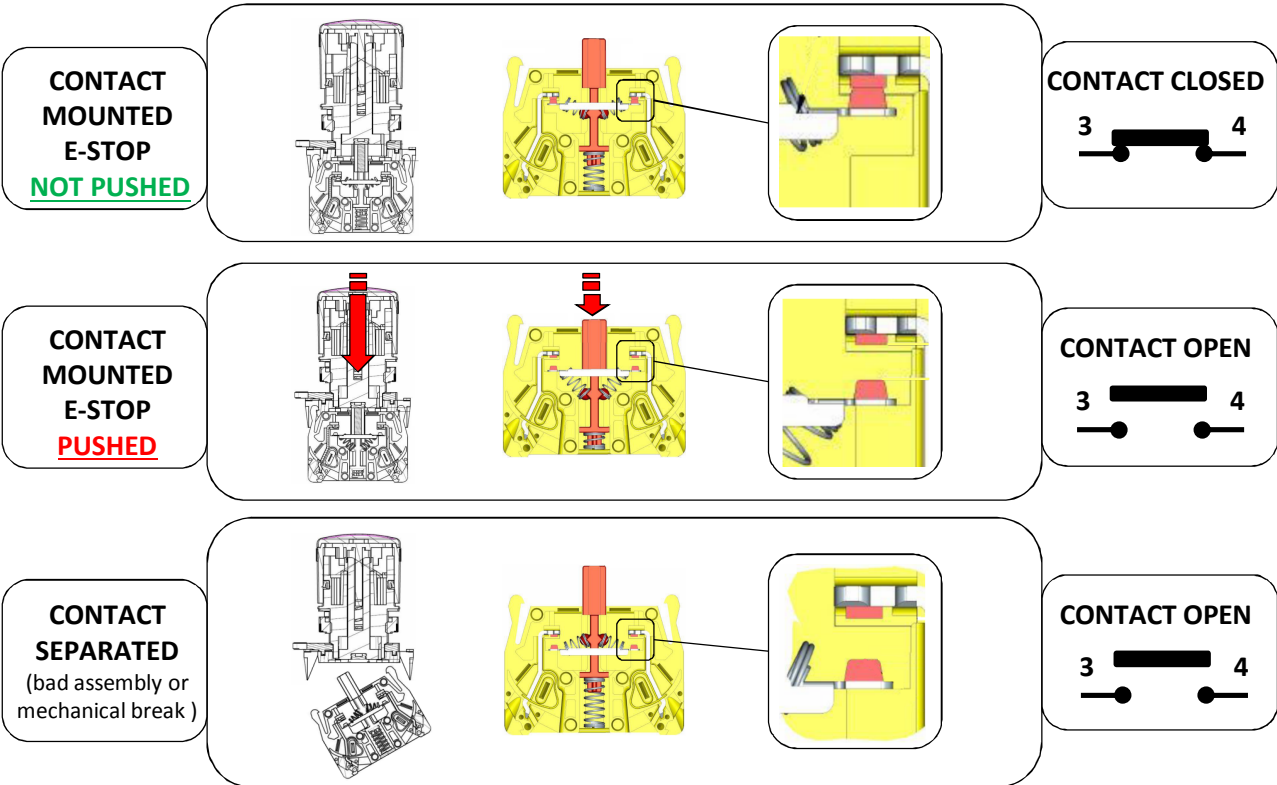
This is an important step ahead in accident prevention and emergency device intervention.

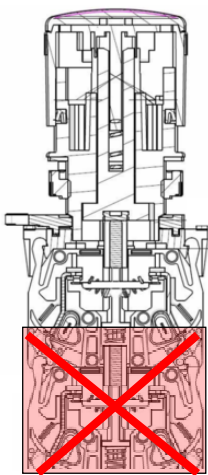
See following sequence with possible operating conditions.

***Detached contact due to a bad assembly or mechanical failure:
difference between a normal NC Vs a Safety NC contact:***



OPERATING SYSTEM

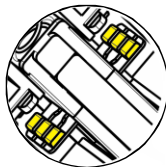




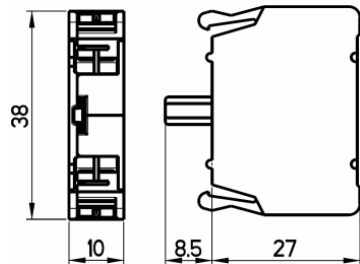
Stacking
forbidden!

Do not fix the safety
contact block under a
contact block

Three
Contact Point
safe & durable
energy trasmission



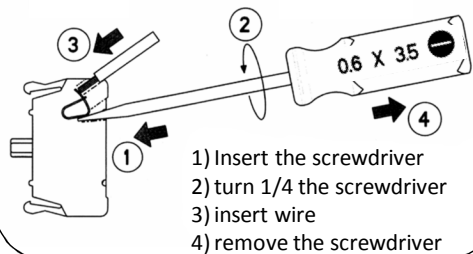
Dimensions



Markings

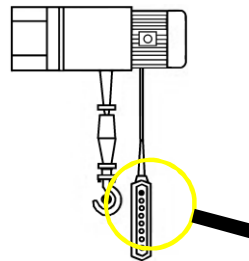


Spring cage terminal:



Pendant Stations with PCW01FT - Characteristics:

- ☐ Shock proof and heat resistant
- ☐ Bi-directional, mechanically interlocked
- ☐ IP 65 double insulation IEC/EN60529
- ☐ General and electrical data page 23 ☐
- ☐ Laser engraved symbols comply with EN60204-1, FEM 9.941



HP03



SINGLE SPEED

HP03.SS

CONTACT TYPE



WEIGHT
[gr]

330

NOTE: available in UL/CSA requirements



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