



GIOVENZANA

INTERNATIONAL B.V.



**AUXILIARY CONTROLS • POTENTIOMETERS
DOUBLE SOCKETS • FOOT SWITCHES**





GIOVENZANA
INTERNATIONAL B.V.

Automation - Lift - Handling System

QUALITY AS A LIFE STYLE

www.giovenzana.com







AUXILIARY CONTROLS • POTENTIOMETERS • DOUBLE SOCKETS • FOOT SWITCHES - Rev. 02_2017

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AUTOMATION

The solutions offered by **Giovenzana** are the results of the detailed analysis of industrial electrical accessories requirements in conformity with all relevant international standards. The range includes:

- Cam switches Phoenix series from 12A to 200A;
- Switch disconnectors Regolus series from 32A to 160A;
- Auxiliary Controls Pegasus, Orion and NEMA series;
- Limit switches available in pre-wired and thermoplastic version;
- Foot switches and micro switches.

QUALITY

Giovenzana, leader in the elevator and lifting equipment field, has gained a prominent position in the automation sector with the launch of industrial control devices into the market. For many years, all commercial and industrial operations have been integrated within the **UNI EN ISO 9001:2008** quality system.

CSQ certificate N 9105. GIOV.

Quality system is the end users guarantee that all production stages are closely followed under strict control and adhere to the requirements set by the company both in terms of customer expectations and compliance to the relevant international standards as proved by the various certificates **Giovenzana** holds for its products.

By the **UNI EN ISO 14001:2004**, **Giovenzana** keeps up with new technologies in order to reduce raw materials consumption, energy and natural resources and to minimize waste and emissions. This reduces the environmental impact.

The certification CSQ N 9191. GIBV.

COMPLIANCE

All **Giovenzana** products are manufactured according to the most relevant Cee directives. **Giovenzana** certifies this compliance with a declaration of conformity.

CERTIFICATIONS

In order to reach its high quality level **Giovenzana's** products are tested by multiple third parties. In order to obtain the UL mark, **Giovenzana** submits their products to Underwriter Laboratories Inc., one of the most eminent independent certification companies in the World.

CEE DIRECTIVES

From January 1st, 1997 it is compulsory to CE mark all electromechanical products: this has been outlined by an important regulation: 2006/95/CE Low Voltage Directives.

CE MARK

European directives, applied to all national regulations, set the minimum requirements in term of safety of all electrical material sold within the EU.

Compliance to these requirements is certified by the manufacturer by the CE mark placed on the products.

STANDARDS

Giovenzana's products comply with both the European EN and the American UL standards. These regulations, such as CEI EN 60204-1 (CEI 44-5) with regards to the safety requirements of the electrical circuits on board industrial machinery, define the characteristics, performance and use of the products.

EN EUROPEAN STANDARDS

The EN European standards are originated from IEC International standards and are the result of the collaboration between CENELEC (European Committee for Electrotechnical Standardization) member countries.

These standards cover and eliminate existing national standards that may be contradictory and non-compliant.





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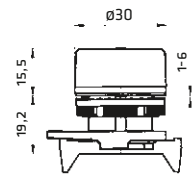
AUXILIARY CONTROLS
PEGASUS SERIES

PUSH BUTTONS Ø22 | WITH COLOUR CAP

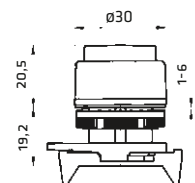
MOMENTARY



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
FLUSH PUSH BUTTON	■	PPRN1	30	10
	■	PPRN2	30	10
	■	PPRN3	30	10
	■	PPRN4	30	10
	■	PPRN5	30	10
	■	PPRN8	30	10



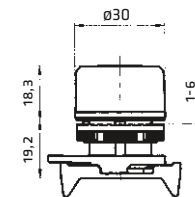
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
EXTENDED PUSH BUTTON	■	PPSN1	31	10
	■	PPSN2	31	10
	■	PPSN3	31	10
	■	PPSN4	31	10
	■	PPSN5	31	10
	■	PPSN8	31	10



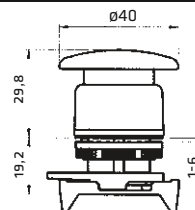
LATCHED



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
FLUSH PUSH BUTTON	■	PPPN1	32	10
	■	PPPN2	32	10
	■	PPPN3	32	10
	■	PPPN4	32	10
	■	PPPN5	32	10
	■	PPPN8	32	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
MUSHROOM OPERATOR Ø40	■	PPFN154N	35	10
	■	PPFN254N	35	10
	■	PPFN354N	35	10



AUXILIARY CONTROLS | PEGASUS SERIES

PUSH BUTTONS Ø22 | WITH LENS CAP

MOMENTARY



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
FLUSH PUSH BUTTON	■	PPRL1	30	10	
	■	PPRL2	30	10	
	■	PPRL3	30	10	
	■	PPRL4	30	10	
	■	PPRL5	30	10	

LATCHED



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED PUSH BUTTON	■	PPSL1	31	10	
	■	PPSL2	31	10	
	■	PPSL3	31	10	
	■	PPSL4	31	10	
	■	PPSL5	31	10	

IND. LIGHT



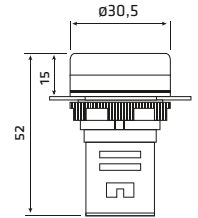
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
FLAT CAP	■	PLSL1NL	30	10	
	■	PLSL2NL	30	10	
	■	PLSL3NL	30	10	
	■	PLSL4NL	30	10	
	■	PLSL5NL	30	10	



LED PILOT LIGHT Ø22



DESCRIPTION	POWER SUPPLY	CODE	WEIGHT grammi	MIN. PACK QUANTITY
SINGLE LED INDICATOR X1 — ⊗ — X2	AC/DC 6V 1	PLML 2 L6	15	10
	AC/DC 12V 1	PLML 2 L12	15	10
	AC/DC 24V	PLML 2 L24	15	10
	AC/DC 48V	PLML 2 L48	15	10
	AC/DC 110V	PLML 2 L110	15	10
	AC 220V	PLML 2 L220	15	10
	AC 380V 1	PLML 2 L380	15	10

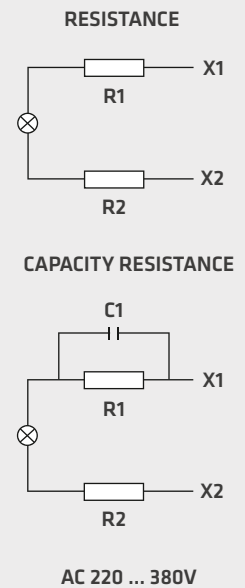


COMPLY WITH RULES

EN60947-5-1 / GB14048.5

DIAGRAM

Operational temperature	°C	-5 +40
Operational umidity		45% ... 90%
AC rated frequency	Hz	50/60
Rated insulation voltage	1 min V	2500V
Over voltage category	EN60947.1	III
Pollution grade	EN60947.1	3
Protection degree	EN60529	IP65, IP2X terminals
Connection:		
Terminal block caliber		A2
Terminal screw		M3,5
Flexible and solid conductor section	min/max	n. 1 1/2,5 mm ² - n. 2 1/2,5 mm ²
Rated operational voltage Ue	AC/DC V	6, 12, 24, 48, 110
	AC V	220 - 380
Rated operational voltage Ie	mA	≤80 6,12V
	mA	≤20 24, 48, 110, 220, 380V
Electrical life	h	≥30.000
Brightness	cd/m ²	100
Mounting	mm	Ø22,5



AUXILIARY CONTROLS | PEGASUS SERIES

MULTIFUNCTION PUSH BUTTONS Ø22 | NOT LIGHT



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
DUAL PUSH BUTTON		PPDN	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED DUAL PUSH BUTTON		PPDNR	38	10	
		PPDNR.3	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MULTIFUNCTION PUSH BUTTON		PPMN	40	10	

MULTIFUNCTION PUSH BUTTONS Ø22 | LIGHT

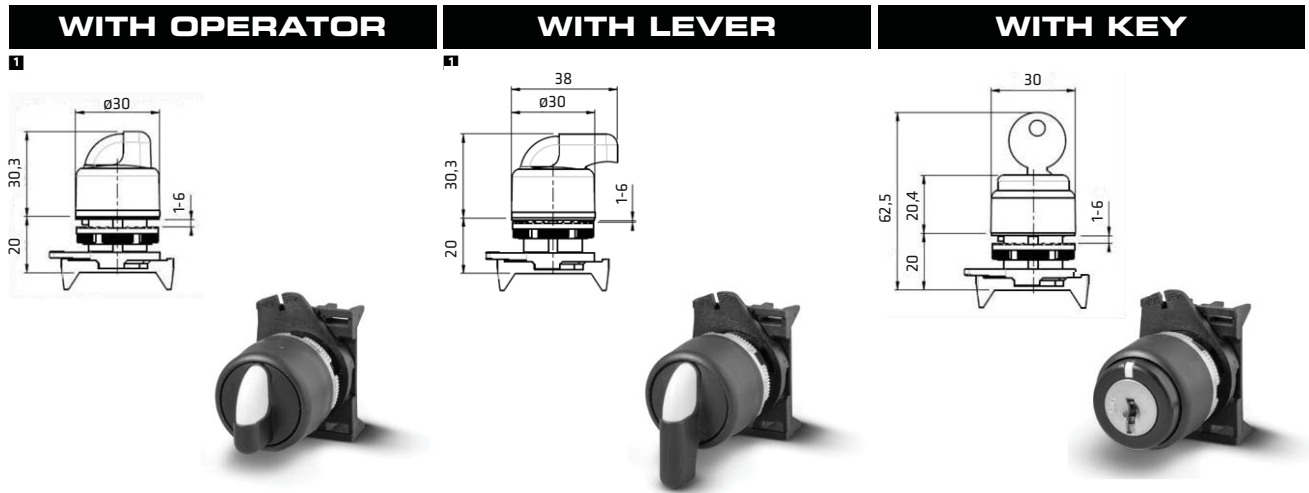


TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
DUAL PUSH BUTTON		PPDL	30	10	
		PPDL.1	30	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED DUAL PUSH BUTTON		PPDLR	30	10	
		PPDLR.3	30	10	

ROTARY SWITCHES Ø22



POSITION	COLOUR INDEX	CODE	COLOUR INDEX	CODE	KEY REMOVAL			CODE
					L	O	R	
 90°	■	PSMB1D0	■	PSLB1D0		*		PSCR8D0C
	■	PSMB2D0	■	PSLB2D0				
	■	PSMB3D0	■	PSLB3D0			*	PSCR8D0E
	■	PSMB4D0	■	PSLB4D0				
	■	PSMB5D0	■	PSLB5D0		*	*	PSCR8D0N
	■	PSMB8D0	■	PSLB8D0				
 45°	■	PSMB1D2	■	PSLB1D2				PSCR8D2C
	■	PSMB2D2	■	PSLB2D2		*		
	■	PSMB3D2	■	PSLB3D2				
	■	PSMB4D2	■	PSLB4D2				
	■	PSMB5D2	■	PSLB5D2				
	■	PSMB8D2	■	PSLB8D2				
 45°	■	PSMB1T0	■	PSLB1T0	*	*		PSR8T0C
	■	PSMB2T0	■	PSLB2T0				PSR8T0A
	■	PSMB3T0	■	PSLB3T0			*	PSR8T0E
	■	PSMB4T0	■	PSLB4T0	*	*	*	PSR8T0G
	■	PSMB5T0	■	PSLB5T0	*	*		PSR8T0H
	■	PSMB8T0	■	PSLB8T0	*		*	PSR8T0K
 45°	■	PSMB1T3	■	PSLB1T3			*	PSCR8T3C
	■	PSMB2T3	■	PSLB2T3				
	■	PSMB3T3	■	PSLB3T3				
	■	PSMB4T3	■	PSLB4T3				
	■	PSMB5T3	■	PSLB5T3				
	■	PSMB8T3	■	PSLB8T3				
 45°	■	PSMB1T2	■	PSLB1T2		*		PSCR8T2C
	■	PSMB2T2	■	PSLB2T2	*			PSCR8T2A
	■	PSMB3T2	■	PSLB3T2				
	■	PSMB4T2	■	PSLB4T2				
	■	PSMB5T2	■	PSLB5T2	*	*		PSCR8T2H
	■	PSMB8T2	■	PSLB8T2				
 45°	■	PSMB1T1	■	PSLB1T1		*		PSCR8T1C
	■	PSMB2T1	■	PSLB2T1			*	PSCR8T1E
	■	PSMB3T1	■	PSLB3T1				
	■	PSMB4T1	■	PSLB4T1				
	■	PSMB5T1	■	PSLB5T1		*	*	PSCR8T1N
	■	PSMB8T1	■	PSLB8T1				

1 For standard rotary switches suitable to operate a central contact, replace the letter "B" with the letter "C": PSMB1D0 or PSMB1D3
 2 For rotary switches with Left - Right operating angles replace the letters "DO" with "SD": PSMB1D0 or PSMB1D3

* Key removable position



AUXILIARY CONTROLS | PEGASUS SERIES

JOYSTICK OPERATORS Ø22 | IP65

2 POSITIONS

Horizontal

Vertical

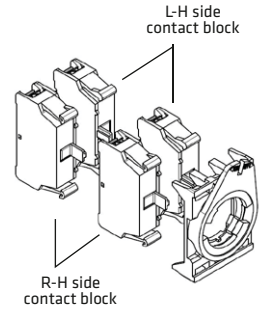
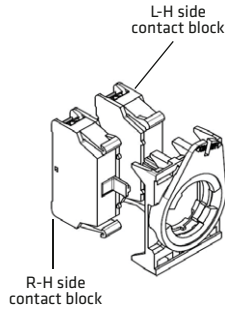
CONTACT BLOCKS		1	0	2
Left-hand side contact block	NO	X	0	0
	NC	0	0	X
Right-hand side contact block	NO	0	0	X
	NC	X	0	0

1	0	2
X	0	X
0	0	0
X	0	0
0	0	X

X Contact close
0 Contact open

4 POSITIONS

3	1	0	2	4
X	0	0	0	0
0	0	0	0	X
0	X	0	0	0
0	0	0	X	0



POSITION	CODE	WEIGHT	MIN. PACK	SIZES
1 0 2	PMJN8T0	58 grams	5	
1 0 2	PMJN8T3			
1 3 0 4 2	PMJN8Q0			
1 3-0-4 2	PMJN8Q4			
1 0 2	PMJN80S			
1-0-2	PMJN80R			



POSITION	CODE	WEIGHT	MIN. PACK	SIZES
1 0 2	PMJN8T01	51 grams	5	
1 0 2	PMJN8T31			
1 3 0 4 2	PMJN8Q01			
1 3-0-4 2	PMJN8Q41			
1 0 2	PMJN80S1			
1-0-2	PMJN80R1			

EMERGENCY PUSH BUTTONS Ø22 | EN ISO 13850

	<table border="1"> <thead> <tr> <th>TYPE</th> <th>COLOUR INDEX</th> <th>CODE</th> <th>WEIGHT grams</th> <th>MIN. PACK QUANTITY</th> <th>SIZES</th> </tr> </thead> <tbody> <tr> <td>MUSHROOM OPERATOR Ø30 TWIST TO RELEASE</td> <td>■</td> <td>PPFN1R3N</td> <td>42</td> <td>10</td> <td> </td> </tr> </tbody> </table>	TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES	MUSHROOM OPERATOR Ø30 TWIST TO RELEASE	■	PPFN1R3N	42	10	
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MUSHROOM OPERATOR Ø30 TWIST TO RELEASE	■	PPFN1R3N	42	10									
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MUSHROOM OPERATOR Ø40 TWIST TO RELEASE	■	PPFN1R4N	44	10									
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MUSHROOM OPERATOR WITH VISION Ø40 TWIST TO RELEASE	■	PPFN1R4S	46	10									
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MUSHROOM OPERATOR Ø60 TWIST TO RELEASE	■	PPFN1R6N	50	10									
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MUSHROOM OPERATOR WITH VISION Ø60 TWIST TO RELEASE	■	PPFN1R6S	52	10									

AUXILIARY CONTROLS | PEGASUS SERIES

EMERGENCY PUSH BUTTONS Ø22 | EN ISO 13850



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 WITH KEY RELEASE	■	PPFN1C4NX (not EN ISO 13850)	76	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 PUSH-PULL	■	PPFN1P4N	44	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 PUSH-PULL WITH VISION	■	PPFN1P4S	46	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 PUSH-PULL WITH COLOUR CAP	■	PPFN1P4C	45	10	




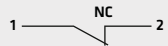



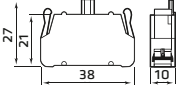
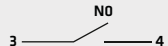


TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 PUSH-PULL WITH LENS CAP	■	PPFL1P4N	45	10	

TECHNICAL NOTES


- All operators comply with the relevant European standard.
- EN ISO 13850: Machine safety - Emergency stop operators, functional characteristics - Design guidelines.
- IEC/EN6097-5-1.
- Comply with the standard IEC/EN60204-1: Machine safety - Machine electrical circuits - General guidelines.
- The push buttons are designed with a load charge mechanism to ensure a reliable operation and stoppage, or blockage, in the activate position. The combination with positive switching NC ⚡ contacts and the presence of the "status" indicator on some models, guarantee a high degree of reliability and effectiveness.

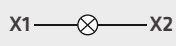
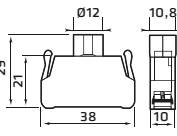
CONTACT BLOCKS | SPRING LOADED TERMINALS




DESIGNATION	FUNCTION	CODE	SIZES
	  	PCW01	
	 	PCW10	

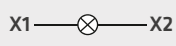
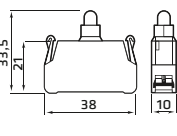
LAMPHOLDER BA9s

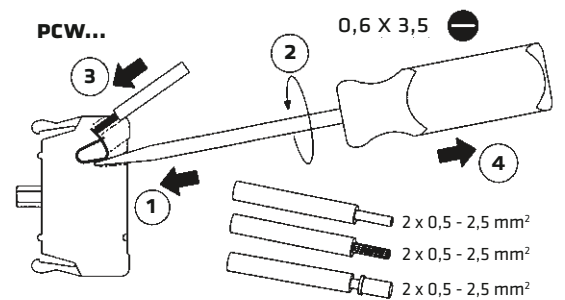
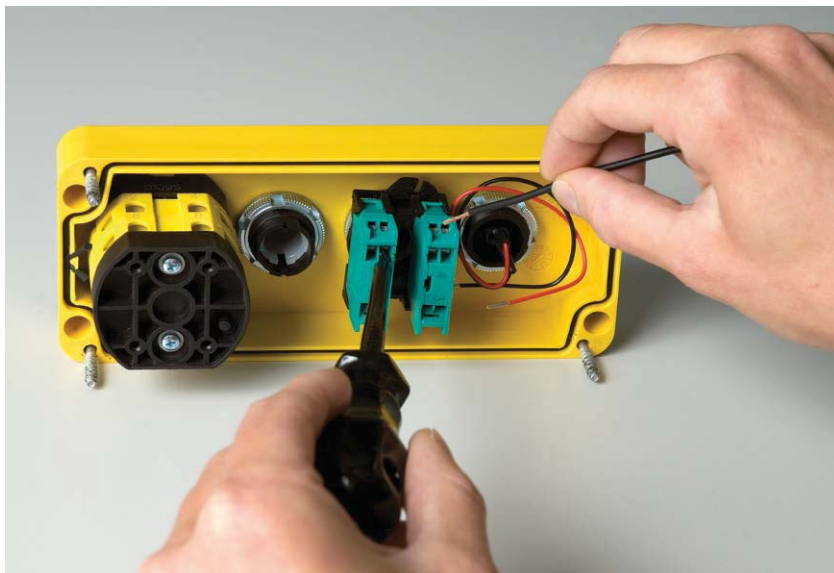


DESIGNATION	POWER SUPPLY	CODE	SIZES
	BA9s Lamp socket 250V 2,4 W max Bulb not included	PCWAD	

LAMPHOLDER WITH BUILT-IN LED




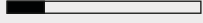
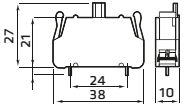


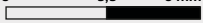


DESIGNATION	POWER SUPPLY	CODE	SIZES
	AC/DC 12V	PCW5L12	
	AC/DC 24V	PCW5L24	
	AC/DC 48V	PCW5L48	
	AC/DC 110V	PCW5L110	
	AC 220V	PCW5L220	



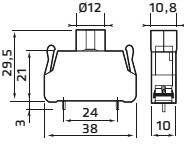


AUXILIARY CONTROLS | PEGASUS SERIES



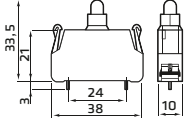
CONTACT BLOCKS | WELDING TERMINALS

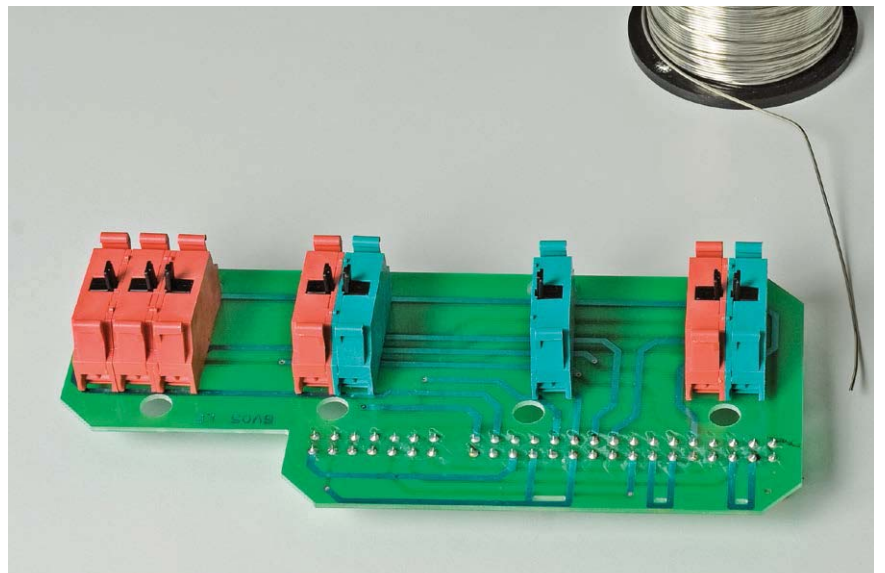
	DESIGNATION	FUNCTION	CODE	SIZES
	1 — NC — 2 	 0 1,5 6 mm 	PSC01	
3 — NO — 4 	 0 3,5 6 mm 	PSC10		

LAMPHOLDER BA9s

	DESIGNATION	POWER SUPPLY	CODE	SIZES
	X1 —  — X2	BA9s Lamp socket 250V 2,4 W max Bulb not included	PSCAD	

LAMPHOLDER WITH BUILT-IN LED

	DESIGNATION	POWER SUPPLY	CODE	SIZES
	X1 —  — X2	AC/DC 12V	PSC5L12	
		AC/DC 24V	PSC5L24	
		AC/DC 48V	PSC5L48	
		AC/DC 110V	PSC5L110	
		AC 220V	PSC5L220	



CONTACT BLOCKS | SCREW TERMINALS

	DESIGNATION	FUNCTION	CODE	
		 0 1,5 6 mm	PL004001	
		 0 3,5 6 mm	PL004002	

LAMPHOLDER BA9s


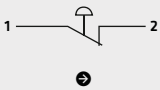
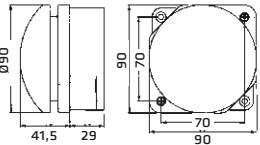
	DESIGNATION	POWER SUPPLY	CODE	
		BA9s Lamp socket 250V 2,4 W max Bulb not included	PL004007	


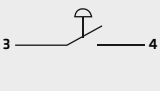
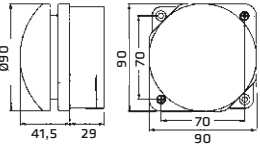
LAMPHOLDER WITH BUILT-IN LED


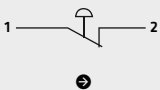
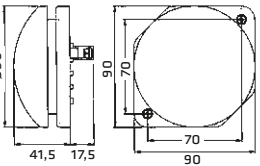
	DESIGNATION	POWER SUPPLY	CODE	
		AC/DC 12V	PL0045L12	
		AC/DC 24V	PL0045L24	
		AC/DC 48V	PL0045L48	
		AC/DC 110V	PL0045L110	
AC 220V		PL0045L220		

AUXILIARY CONTROLS | PEGASUS SERIES

CONTROL STATION WITH MUSHROOM Ø90 | IP66

	TYPE	COLOUR INDEX	DESIGNATION	CODE	SIZES
	MUSHROOM HEAD MOMENTARY	■		PG1M9W01	

	TYPE	COLOUR INDEX	DESIGNATION	CODE	SIZES
	MUSHROOM HEAD MOMENTARY	■		PG8M9W10	

	TYPE	COLOUR INDEX	DESIGNATION	CODE	SIZES
	MUSHROOM HEAD MOMENTARY FLUSH MOUNTING	■		PR1M9W01	



ELECTRICAL CHARACTERISTICS

- ⊕ Protection EN60529 IP66.
- ⊕ Double insulated.
- ⊕ Number contact capacity: max 3 contact blocks.
- ⊕ Cable entry with 3 holes Pg 13,5/M20.
- ⊕ Ambient temperature:
 - operating: -25 +70°C
 - storage: -30 +70°C
- ⊕ Climate protection: IEC 68 2-3, 2-30.
- ⊕ Terminals referencing: EN50013.
- ⊕ Colors:
 - Red mushroom;
 - Yellow cover;
 - Black box.

 - Black mushroom;
 - Grey cover;
 - Black box.

PUSH BUTTON STATIONS | IP65

	TYPE	COLOUR	DESIGNATION	CODE	WEIGHT grams	MIN. PACK	SIZES
	FLUSH PUSH BUTTON NOT LATCHING	■	1	PQ01RN1	176	1	
		■	3	PQ01RN2			

	TYPE	COLOUR	DESIGNATION	CODE	WEIGHT grams	MIN. PACK	SIZES
	EMERGENCY STOP Ø40 NOT LATCHING	■	1	PQ01M4N	192	1	

	TYPE	COLOUR	DESIGNATION	CODE	WEIGHT grams	MIN. PACK	SIZES
	EMERGENCY STOP Ø60 NOT LATCHING	■	1	PQ01M6N	198	1	


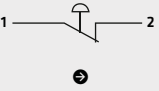
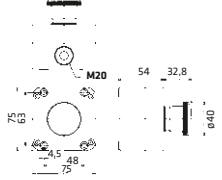

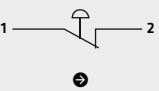
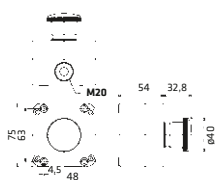

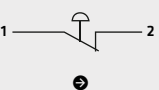
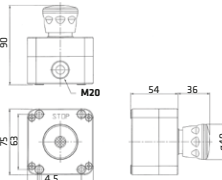

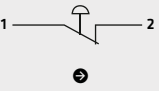
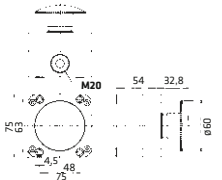
	TYPE	COLOUR	DESIGNATION	CODE	WEIGHT grams	MIN. PACK	SIZES
	WITH NR. 2 PUSH BUTTONS	 	3 3	PQ02B	264	1	

	TYPE	COLOUR	DESIGNATION	CODE	WEIGHT grams	MIN. PACK	SIZES
	WITH NR. 1 PUSH BUTTONS AND NR. 1 EMERGENCY EN ISO 13850	 	3 1	PQ02A	264	1	


	TYPE	COLOUR	DESIGNATION	CODE	WEIGHT grams	MIN. PACK	SIZES
	WITH NR. 2 PUSH BUTTONS AND NR. 1 EMERGENCY EN ISO 13850	 	3 1 3	PQ03B	362	1	

AUXILIARY CONTROLS | PEGASUS SERIES

PUSH BUTTON STATIONS | EN ISO 13850 IP65

	TYPE	COLOUR	DESIGNATION	CODE	WEIGHT grams	MIN. PACK	SIZES
	EMERGENCY STOP Ø40 TWIST TO RELEASE	■	1  2	PQ01R4N	190	1	
	EMERGENCY STOP Ø40 PUSH-PULL	■	1  2	PQ01P4N	192	1	
	EMERGENCY STOP PUSH BUTTON Ø40 PUSH-PULL WITH VISION	■	1  2	PQ01P4L 1	190	1	
	EMERGENCY STOP Ø60 PUSH-PULL	■	1  2	PQ01P6N	198	1	

TECHNICAL NOTES

- All operators comply with the relevant European standard.
- EN ISO 13850: Machine safety - Emergency stop operators, functional characteristics - Design guidelines.
- IEC/EN6097-5-1.
- Comply with the standard IEC/EN60204-1: Machine safety - Machine electrical circuits - General guidelines.
- The push buttons are designed with a load charge mechanism to ensure a reliable operation and stoppage, or blockage, in the activate position. The combination with positive switching NC  contacts and the presence of the "status" indicator on some models, guarantee a high degree of reliability and effectiveness.

PUSH BUTTON STATION ENCLOSURES | IP65



TYPE	COVER COLOUR	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
1 HOLES ENCLOSURE	■	PQ01K	134	1	
	■	PQ01KGN			



TYPE	COVER COLOUR	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
2 HOLES ENCLOSURE	■	PQ02K	174	1	
	■	PQ02KGN			



TYPE	COVER COLOUR	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
3 HOLES ENCLOSURE	■	PQ03K	214	1	
	■	PQ03KGN			



TYPE	COVER COLOUR	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
4 HOLES ENCLOSURE	■	PQ04K	256	1	
	■	PQ04KGN			

AUXILIARY CONTROLS | PEGASUS SERIES

PUSH BUTTON STATION ENCLOSURES | IP65



TYPE	COVER COLOUR	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
5 HOLES ENCLOSURE	■	PQ05K	296	1	
	■	PQ05KGN			



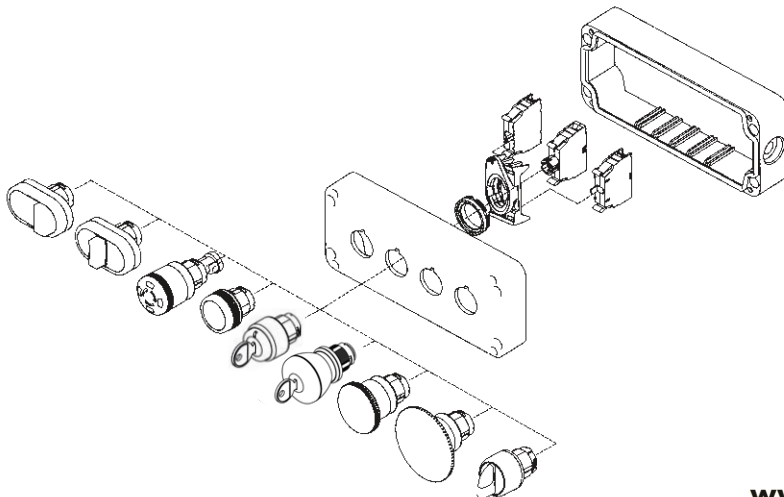
TYPE	COVER COLOUR	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
3 HOLES ENCLOSURE	■	PQ06K	386	1	
	■	PQ06KGN			

CHARACTERISTICS

- ABS self-extinguishing material.
- Self-extinguishing class V0 UL94.
- EN60529 IP65 protection grade.
- Double insulation .

- Colors: Black box; Yellow cover; Grey cover.
- Threaded cable entry with membrane conduit knock:
 - 1 hole box nr. 1 M16 + 1 M20 gland, from 2 to 5 holes nr. 2 M20 glands;
 - 6 holes nr. 1 M20 + 1 M25 glands

ASSEMBLING

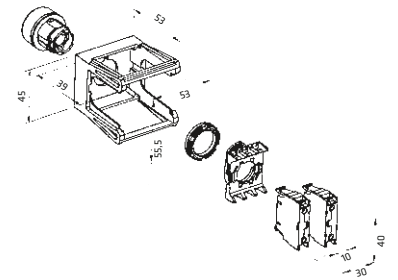


ACCESSORIES

DIN RAIL MOUNTING ADAPTOR



DESCRIPTION	CODE
DIN EN50022 RAIL MOUNTING FOR 46 MM STANDARDISED GREY ENCLOSURES	11708351



PROTECTION CAPS

FOR FLUSH BUTTON

DESCRIPTION	CODE
PEGASUS	PCR



FOR MULTIFUNCTIONAL SERIES

PEGASUS	CODE
PPDN-PPDL	PCD
PPMN	PCM
PPDNR-PPDLR	PCN



FOR EXTENDED PUSH BUTTON

DESCRIPTION	CODE
PEGASUS	PCS



CENTRAL CONTACT OPERATION



DESCRIPTION	CODE
FOR PUSH BUTTONS STABLE-UNSTABLE	PAC

KEY FIXING BULB EXTRACTOR



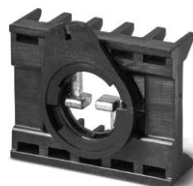
CODE
PCF

STOPPER CLOSING HOLES Ø22,5



CODE
PTRN8

CONTACTS SUPPORT



DESCRIPTION	CODE	DESCRIPTION	CODE
TO CONTACT ELEMENTS PL, PCW, PSC	PPELN8	TO FIVE CONTACT ELEMENTS PL, PCW, PSC	PPELN8-5

FASTON CONNECTORS AND FOR PCB



DESCRIPTION	CODE	DESCRIPTION	CODE
FASTON 6,3x0,8	11708341	PCB	11708235

TO SCREW CONTACTS PL

AUXILIARY CONTROLS | PEGASUS SERIES

OPERATOR CAPS Ø22

MOMENTARY AND LATCHED, FLUSH PUSH BUTTONS

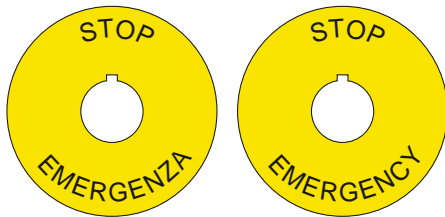


SYMBOL	COLOUR	CODE
	■	PPRN2/I
	■	PPRN1/O
	■	PPRN2/II
	■	PPRN2/START
	■	PPRN1/STOP

SYMBOL	COLOUR	CODE
	■	PPRN2/ON
	■	PPRN1/OFF
	■	PPRN5/F
	■	PPRN8/F

Available others symbols on request, also in different languages and colours.

EMERGENCY STOP RING



DESCRIPTION	TEXT	CODE
Ø60 Made of Aluminium Yellow background Black letters. Weight 3,5 gr. Min. packing q.ty 10 pcs.	(BLANK)	PTE
	STOP - EMERGENZA	PTE/I
	EMERGENCY - STOP	PTE/A
	NOT - AUS	PTE/D

Available others texts on request, also in different languages.

LEGEND PLATE



CODE
PPTN8

LABEL



TEXT	CODE
(BLANK)	PTA00
MARCIA	PTA01
ARRESTO	PTA02
I O II	PTA03
O I	PTA04
CHIUDE	PTA05
APRE	PTA06
EMERGENZA	PTA07
MANUALE	PTA08
AUTOMATICO	PTA09
AVANTI	PTA10
INDIETRO	PTA11
EIN	PTA12
AUS	PTA13
STOP	PTA14
START	PTA15
RESET	PTA16
I → 0 ← II	PTA17
AUT 0 MAN	PTA18
INS - DISINS	PTA26
HAND OFF AUTO	PTA27
FORW OFF REV	PTA28
ON OFF	PTA29



TECHNICAL DATA | ELECTRICAL CHARACTERISTICS

CONTACT BLOCKS

EC/EN 60947-5-1 CHARACTERISTICS		P L004001-P L004002									P C W01-P C W10 / P S C01-P S C10								
Rated insulation voltage U _i	V	690*									690*								
Rated impulse withstand voltage U _{imp}	kV	4*									4*								
Operating frequency	Hz	50/60*									50/60*								
Rated thermal current I _{th}	A	16*									16*								
Rated thermal current in enclosed I _{the}	A	10*									10*								
RATED OPERATING CURRENT I _e :		P L004001-P L004002									P C W01-P C W10 / P S C01-P S C10								
AC15: Alternate current	V	24	60	110	230	400	440	500	690	24	60	110	240	400	440	500	690		
	A	16*	12	8	6	4,5	3,5	1*	1	16*	12	5	5*	4	4	4*	2*		
DC13: Direct current	V	24	48	60	110	220	24	48	60	110	250								
	A	2*	1,2	0,85	0,4	0,25*	2	2*	1*	0,4	0,4*								
Conditional short circuit withstand current	A	1000*									1000*								
Fuse rating gG	500V	10A*									10A*								
Contact insulation resistance	mΩ	<25									<25								
Switching mechanism		Slow break double gap contacts									Slow break double gap contacts								
Contact duty		☉ NC contact with positive opening									☉ NC contact with positive opening								
Minimum tripping force		4N									4N								
Electrical life AC15	mil. cycles	1A/1,5 - 2A/0,5 - 3A/0,25									1A/1,5 - 2A/0,5 - 3A/0,25								
UL 508 CHARACTERISTICS		P L004001-P L004002									P C W01-P C W10 / P S C01-P S C10								
General Use		10A-600V ac - 2,5A-125V dc									10A-600V ac - 2,5A-125V dc								
Heavy Duty (HD) category		A600-Q600									A600-Q600								

LAMP HOLDER

		B A9s			BUILT-IN LED		
EC/EN 60947-5-1 CHARACTERISTICS		D I R E C T P L004007 P C W A D - P S C A D			L E D P L004.L. P C W .L. - P S C .L.		
Rated insulation voltage U _i	V	690*			400		
Rated operating voltage U _e	V	400* 300 1			AC/DC 12-24		
	V	-			AC/DC 48		
	V	-			AC/DC 110		
	V	-			AC 220		
Max rated power	W	2,4* 2,5 1			-		
Power supply		AC/DC			-		
Lamp fixing system		B A9s			-		

AUXILIARY CONTROLS | PEGASUS SERIES

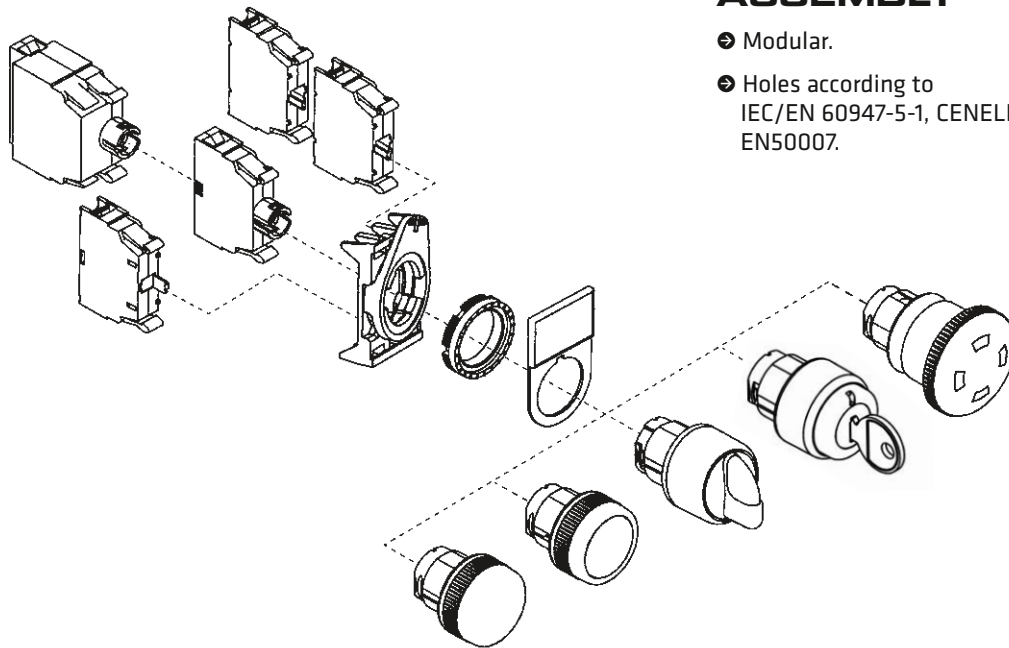
TECHNICAL DATA | ELECTRICAL CHARACTERISTICS

STANDARD CONFORMITY		UL - IMG - CCC - EAC - R.I.NA
Approvals		IEC/EN60947-5-1, UL508
Protection class	EN 60529	IP65: Buttons and switches, joysticks, single-lamp IP66/IP67/IP69K: Mushroom emergency EN ISO 13850
	Conforms to UL50	IP40: Multi-function push buttons
	EN 60529	IP66: Buttons with protection caps Type 1
		IP65: Control stations, enclosures
		IP66: Mushroom, Push button Ø90
		IP20: Contacts PCW.,PL.
		IP00: PSC.
Material Group	EN60947-1	II
Pollution Grade	EN60947-1	3
Flammability	UL94	VO: live parts
Ambient Temperature	°C	Operating: -25 +70
	°C	Storage: -30 +70
Climate Protection	IEC68 part 2-3	Hot damp
	IEC68 part 2-30	Unsettled Hot damp
Terminals referencing		EN50013
Terminals:		
Terminal block caliber		A2
Terminal screw		M3,5
Tightening torque		1,2 Nm - EN60947-1 - 12 lb.in. UL508
Capacity:		
Solid and flexible conductors	n° 1 min/max mm²	1/2,5 screw terminals, 0,5-2,5 spring loaded terminals
	n° 2 min/max mm²	1/2,5 screw terminals, 0,5-2,5 spring loaded terminals
	AWG	20-12 screw terminals, 20-12 spring loaded terminals
Mechanical life:		
Mushroom operators and standard		3
Push buttons with colour cap	mil./operations	
Standard push buttons with lens cap		1
Latched push buttons with colour cap		1
Standard rotary switches		1
Rotary switches with lens, latched push button with lens cap, joystick		0,5
Emergency stop push buttons with release		0,3

ASSEMBLY INSTRUCTIONS

ASSEMBLY

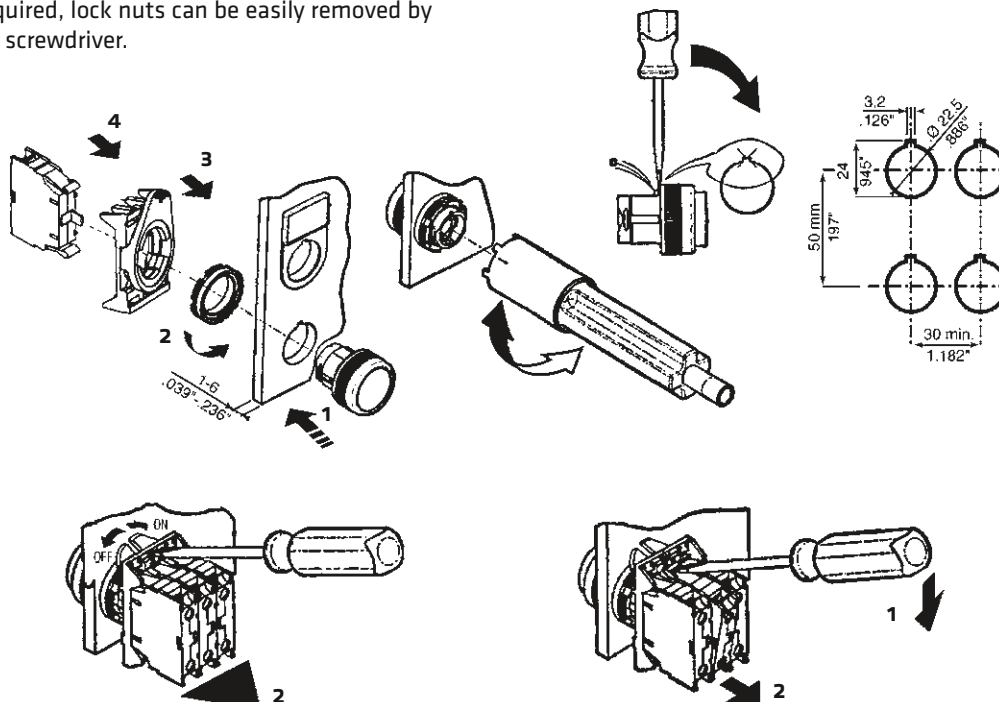
- Modular.
- Holes according to IEC/EN 60947-5-1, CENELEC EN50007.



CENELEC EN50007

- Panel thickness from 1 up to 6 mm.

➤ If not required, lock nuts can be easily removed by means of a screwdriver.





GIOVENZANA
INTERNATIONAL B.V.



GIOVENZANA

INTERNATIONAL B.V.



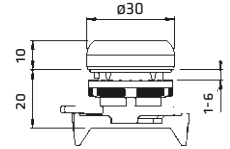
AUXILIARY CONTROLS
ORION SERIES

PUSH BUTTONS Ø22 | WITH COLOUR CAP | IP65

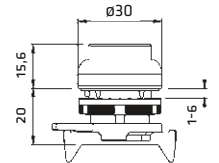
MOMENTARY



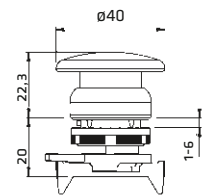
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
FLUSH PUSH BUTTON	■	PPRN1BL	30	10
	■	PPRN2BL	30	10
	■	PPRN3BL	30	10
	■	PPRN4BL	30	10
	■	PPRN5BL	30	10
	■	PPRN8BL	30	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
EXTENDED PUSH BUTTON	■	PPSN1BL	31	10
	■	PPSN2BL	31	10
	■	PPSN3BL	31	10
	■	PPSN4BL	31	10
	■	PPSN5BL	31	10
	■	PPSN8BL	31	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
MUSHROOM Ø40	■	PPFN1M4NBL	45	10
	■	PPFN2M4NBL	45	10
	■	PPFN3M4NBL	45	10

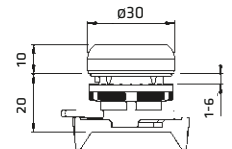


PUSH BUTTONS Ø22 | WITH LENS CAP | IP65

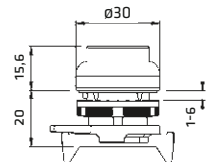
MOMENTARY



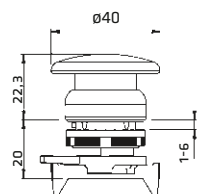
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
FLUSH PUSH BUTTON	■	PPRL1BL	30	10
	■	PPRL2BL	30	10
	■	PPRL3BL	30	10
	■	PPRL4BL	30	10
	■	PPRL5BL	30	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
EXTENDED PUSH BUTTON	■	PPSL1BL	31	10
	■	PPSL2BL	31	10
	■	PPSL3BL	31	10
	■	PPSL4BL	31	10
	■	PPSL5BL	31	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
MUSHROOM OPERATOR Ø40	■	PPFL1M4NBL	43	10



AUXILIARY CONTROLS | ORION SERIES | BLACK LINE

IND. LIGHT



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
FLAT CAP		PLSL1NL	30	10	
		PLSL2NL	30	10	
		PLSL3NL	30	10	
		PLSL4NL	30	10	
		PLSL5NL	30	10	

MULTIFUNCTION PUSH BUTTONS Ø22 | NOT LIGHT | IP65



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
DUAL PUSH BUTTON		PPDNBL	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED DUAL PUSH BUTTON		PPDNSBL	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MULTIFUNCTION PUSH BUTTON		PPMNSBL	40	10	

MULTIFUNCTION PUSH BUTTONS Ø22 | LIGHT | IP65



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
DUAL PUSH BUTTON		PPDLBL	38	10	
		PPDLBL.1	38	10	



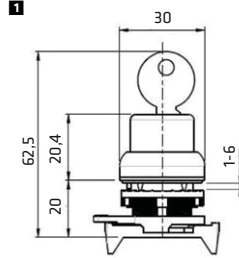
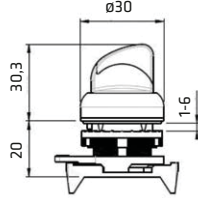
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED DUAL PUSH BUTTON		PPDLSBL	38	10	

ROTARY SWITCHES Ø22 | IP65

WITH OPERATOR

WITH LIGHT OPERATOR

WITH KEY



POSITION	COLOUR INDEX	CODE	COLOUR INDEX	CODE	KEY REMOVAL			CODE
					L	O	R	
 90°	■	PSMB1D0BL	■	PSML1D0BL		*		PSCR8D0CBL
	■	PSMB2D0BL	■	PSML2D0BL				
	■	PSMB3D0BL	■	PSML3D0BL			*	PSCR8D0EBL
	■	PSMB4D0BL	■	PSML4D0BL				
	■	PSMB5D0BL	■	PSML5D0BL		*	*	PSCR8D0NBL
	■	PSMB8D0BL						
 45°	■	PSMB1D1BL	■	PSML1D1BL		*		PSCR8D1CBL
	■	PSMB2D1BL	■	PSML2D1BL				
	■	PSMB3D1BL	■	PSML3D1BL			*	PSCR8D1EBL
	■	PSMB4D1BL	■	PSML4D1BL				
	■	PSMB5D1BL	■	PSML5D1BL		*	*	PSCR8D1NBL
	■	PSMB8D1BL						
 45°	■	PSMB1D2BL	■	PSML1D2BL				
	■	PSMB2D2BL	■	PSML2D2BL				
	■	PSMB3D2BL	■	PSML3D2BL				
	■	PSMB4D2BL	■	PSML4D2BL		*		PSCR8D2CBL
	■	PSMB5D2BL	■	PSML5D2BL				
	■	PSMB8D2BL						
 45°	■	PSMB1T0BL	■	PSML1T0BL	*	*		PSR8T0CBL
	■	PSMB2T0BL	■	PSML2T0BL				PSR8T0ABL
	■	PSMB3T0BL	■	PSML3T0BL			*	PSR8T0EBL
	■	PSMB4T0BL	■	PSML4T0BL	*	*	*	PSR8T0GBL
	■	PSMB5T0BL	■	PSML5T0BL	*	*	*	PSR8T0HBL
	■	PSMB8T0BL	■	PSML8T0BL	*	*	*	PSR8T0KBL
 45°	■	PSMB1T3BL	■	PSML1T3BL				
	■	PSMB2T3BL	■	PSML2T3BL		*		PSCR8T3CBL
	■	PSMB3T3BL	■	PSML3T3BL				
	■	PSMB4T3BL	■	PSML4T3BL				
	■	PSMB5T3BL	■	PSML5T3BL				
	■	PSMB8T3BL						
 45°	■	PSMB1T2BL	■	PSML1T2BL		*		PSCR8T2CBL
	■	PSMB2T2BL	■	PSML2T2BL				
	■	PSMB3T2BL	■	PSML3T2BL	*			PSCR8T2ABL
	■	PSMB4T2BL	■	PSML4T2BL				
	■	PSMB5T2BL	■	PSML5T2BL	*	*		PSCR8T2HBL
	■	PSMB8T2BL						
 45°	■	PSMB1T1BL	■	PSML1T1BL		*		PSCR8T1CBL
	■	PSMB2T1BL	■	PSML2T1BL				
	■	PSMB3T1BL	■	PSML3T1BL			*	PSCR8T1EBL
	■	PSMB4T1BL	■	PSML4T1BL				
	■	PSMB5T1BL	■	PSML5T1BL		*	*	PSCR8T1NBL
	■	PSMB8T1BL						











1 For standard rotary switches suitable to operate a central contact, replace the letter "B" with the letter "C": PSMB1D0 or PSCR8SDE
 2 For rotary switches with Left - Right operating angles replace the letters "DO" with "SD": PSMB1D0 or PSCR8SDE









* Key removable position

OPERATOR CAPS Ø22 | IP65

MOMENTARY FLUSH PUSH BUTTONS



SYMBOL	COLOUR	CODE
		PPRN2BL/I
		PPRN1BL/O
		PPRN2BL/II
		PPRN2BL/START
		PPRN1BL/STOP

SYMBOL	COLOUR	CODE
		PPRN2BL/ON
		PPRN1BL/OFF
		PPRN5BL/F
		PPRN8BL/F

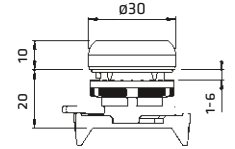
Available others symbols on request, also in different languages and colours.

PUSH BUTTONS Ø22 | WITH COLOUR CAP | IP67-IP69K

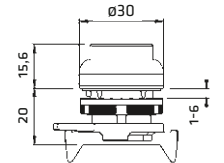
MOMENTARY



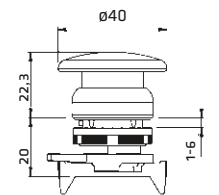
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
FLUSH PUSH BUTTON	■	PPRN1GL	30	10
	■	PPRN2GL	30	10
	■	PPRN3GL	30	10
	■	PPRN4GL	30	10
	■	PPRN5GL	30	10
	■	PPRN8GL	30	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
EXTENDED PUSH BUTTON	■	PPSN1GL	31	10
	■	PPSN2GL	31	10
	■	PPSN3GL	31	10
	■	PPSN4GL	31	10
	■	PPSN5GL	31	10
	■	PPSN8GL	31	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
MUSHROOM Ø40	■	PPFN1M4NGL	45	10
	■	PPFN2M4NGL	45	10
	■	PPFN3M4NGL	45	10

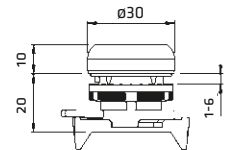


PUSH BUTTONS Ø22 | WITH LENS CAP | IP67-IP69K

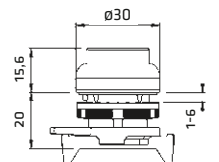
MOMENTARY



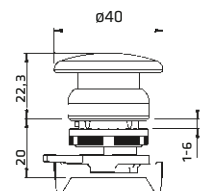
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
FLUSH PUSH BUTTON	■	PPRL1GL	30	10
	■	PPRL2GL	30	10
	■	PPRL3GL	30	10
	■	PPRL4GL	30	10
	■	PPRL5GL	30	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
EXTENDED PUSH BUTTON	■	PPSL1GL	31	10
	■	PPSL2GL	31	10
	■	PPSL3GL	31	10
	■	PPSL4GL	31	10
	■	PPSL5GL	31	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
MUSHROOM OPERATOR Ø40	■	PPFL1M4NGL	43	10



AUXILIARY CONTROLS | ORION SERIES | GREY LINE

IND. LIGHT



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
FLAT CAP		PLSL1NL	30	10	
		PLSL2NL	30	10	
		PLSL3NL	30	10	
		PLSL4NL	30	10	
		PLSL5NL	30	10	

MULTIFUNCTION PUSH BUTTONS Ø22 | NOT LIGHT | IP67-IP69K



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
DUAL PUSH BUTTON		PPDNGL	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED DUAL PUSH BUTTON		PPDNSGL	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MULTIFUNCTION PUSH BUTTON		PPMNSGL	40	10	

MULTIFUNCTION PUSH BUTTONS Ø22 | LIGHT | IP67-IP69K



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
DUAL PUSH BUTTON		PPDLGL	38	10	
		PPDLGL.1	38	10	



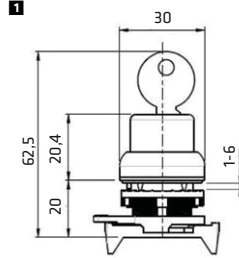
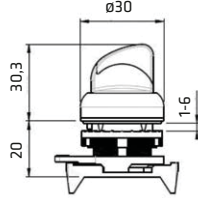
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED DUAL PUSH BUTTON		PPDLSGL	38	10	

ROTARY SWITCHES Ø22 | IP67-IP69K

WITH OPERATOR

WITH LIGHT OPERATOR

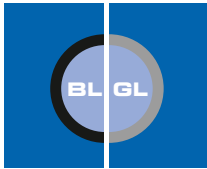
WITH KEY



POSITION	COLOUR INDEX	CODE	COLOUR INDEX	CODE	KEY REMOVAL			CODE
					L	O	R	
 90°	■	PSMB1D0GL	■	PSML1D0GL		*		PSCR8D0CGL
	■	PSMB2D0GL	■	PSML2D0GL				PSCR8D0EGL
	■	PSMB3D0GL	■	PSML3D0GL			*	PSCR8D0NGL
	■	PSMB4D0GL	■	PSML4D0GL		*	*	
	■	PSMB5D0GL	■	PSML5D0GL				
	■	PSMB8D0GL	■					
 45°	■	PSMB1D1GL	■	PSML1D1GL		*		PSCR8D1CGL
	■	PSMB2D1GL	■	PSML2D1GL				PSCR8D1EGL
	■	PSMB3D1GL	■	PSML3D1GL			*	PSCR8D1NGL
	■	PSMB4D1GL	■	PSML4D1GL		*	*	
	■	PSMB5D1GL	■	PSML5D1GL				
	■	PSMB8D1GL	■					
 45°	■	PSMB1D2GL	■	PSML1D2GL		*		PSCR8D2CGL
	■	PSMB2D2GL	■	PSML2D2GL				
	■	PSMB3D2GL	■	PSML3D2GL				
	■	PSMB4D2GL	■	PSML4D2GL				
	■	PSMB5D2GL	■	PSML5D2GL				
	■	PSMB8D2GL	■					
 45°	■	PSMB1T0GL	■	PSML1T0GL	*	*		PSR8T0CGL
	■	PSMB2T0GL	■	PSML2T0GL	*			PSR8T0AGL
	■	PSMB3T0GL	■	PSML3T0GL	*	*	*	PSR8T0EGL
	■	PSMB4T0GL	■	PSML4T0GL	*	*	*	PSR8T0GGL
	■	PSMB5T0GL	■	PSML5T0GL	*	*	*	PSR8T0HGL
	■	PSMB8T0GL	■		*	*	*	PSR8T0KGL
 45°	■	PSMB1T3GL	■	PSML1T3GL		*		PSCR8T3CGL
	■	PSMB2T3GL	■	PSML2T3GL				
	■	PSMB3T3GL	■	PSML3T3GL				
	■	PSMB4T3GL	■	PSML4T3GL				
	■	PSMB5T3GL	■	PSML5T3GL				
	■	PSMB8T3GL	■					
 45°	■	PSMB1T2GL	■	PSML1T2GL		*		PSCR8T2CGL
	■	PSMB2T2GL	■	PSML2T2GL	*			PSCR8T2AGL
	■	PSMB3T2GL	■	PSML3T2GL	*			PSCR8T2HGL
	■	PSMB4T2GL	■	PSML4T2GL	*	*		
	■	PSMB5T2GL	■	PSML5T2GL				
	■	PSMB8T2GL	■					
 45°	■	PSMB1T1GL	■	PSML1T1GL		*		PSCR8T1CGL
	■	PSMB2T1GL	■	PSML2T1GL			*	PSCR8T1EGL
	■	PSMB3T1GL	■	PSML3T1GL			*	PSCR8T1NGL
	■	PSMB4T1GL	■	PSML4T1GL		*	*	
	■	PSMB5T1GL	■	PSML5T1GL				
	■	PSMB8T1GL	■					

1 For standard rotary switches suitable to operate a central contact, replace the letter "B" with the letter "C": PSMB1D0 or PSCR8D0E
 2 For rotary switches with Left - Right operating angles replace the letters "DO" with "SD": PSMB1D0 or PSCR8D0E

* Key removable position



AUXILIARY CONTROLS | ACCESSORIES | GREY LINE

OPERATOR CAPS Ø22 | IP67-IP69K

MOMENTARY FLUSH PUSH BUTTONS



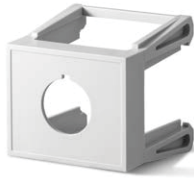
SYMBOL	COLOUR	CODE
	■	PPRN2GL/I
	■	PPRN1GL/O
	■	PPRN2GL/II
	■	PPRN2GL/START
	■	PPRN1GL/STOP

SYMBOL	COLOUR	CODE
	■	PPRN2GL/ON
	■	PPRN1GL/OFF
	■	PPRN5GL/F
	■	PPRN8GL/F

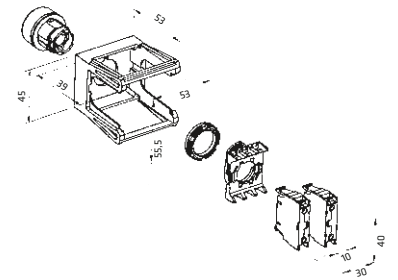
Available others symbols on request, also in different languages and colours.

ACCESSORIES | ORION SERIES

DIN RAIL MOUNTING ADAPTOR



DESCRIPTION	CODE
DIN EN50022 RAIL MOUNTING FOR 46 MM STANDARDISED GREY ENCLOSURES	11708351



PROTECTION CAPS

FOR FLUSH BUTTON

DESCRIPTION	CODE
ORION	PCRNL



FOR MULTIFUNCTIONAL SERIES

ORION	CODE
PPDNGL-PPDLGL	PCDNL
PPMNGL	PCMNL
PPDNRGL-PPDLRGL	PCNNL



FOR EXTENDED PUSH BUTTON

DESCRIPTION	CODE
ORION	PCSNL



CENTRAL CONTACT OPERATION



DESCRIPTION	CODE
FOR GL, BL, NEMA 4X SERIES	11708555

KEY FIXING BULB EXTRACTOR



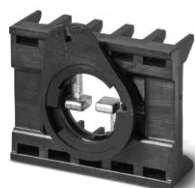
CODE
PCF

STOPPER CLOSING HOLES Ø22,5



CODE
PTRN8

CONTACTS SUPPORT



DESCRIPTION	CODE	DESCRIPTION	CODE
TO CONTACT ELEMENTS PL, PCW, PSC	PPELN8	TO FIVE CONTACT ELEMENTS PL, PCW, PSC	PPELN8-5

FASTON CONNECTORS AND FOR PCB



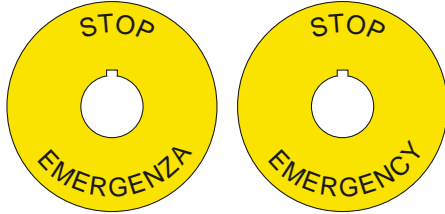
DESCRIPTION	CODE	DESCRIPTION	CODE
FASTON 6,3x0,8	11708341	PCB	11708235

TO SCREW CONTACTS PL

AUXILIARY CONTROLS | ORION SERIES

ACCESSORIES | ORION SERIES

EMERGENCY STOP RING



DESCRIPTION	TEXT	CODE
Ø60 Made of Aluminium Yellow background Black letters. Weight 3,5 gr. Min. packing q.ty 10 pcs.	(BLANK)	PTE
	STOP - EMERGENZA	PTE/I
	EMERGENCY - STOP	PTE/A
	NOT - AUS	PTE/D

Available others texts on request, also in different languages.

LABEL



TEXT	CODE
(BLANK)	PTA00
MARCIA	PTA01
ARRESTO	PTA02
I 0 II	PTA03
0 I	PTA04
CHIUDE	PTA05
APRE	PTA06
EMERGENZA	PTA07
MANUALE	PTA08
AUTOMATICO	PTA09
AVANTI	PTA10
INDIETRO	PTA11
EIN	PTA12
AUS	PTA13
STOP	PTA14
START	PTA15
RESET	PTA16
I → 0 ← II	PTA17
AUT 0 MAN	PTA18
INS - DISINS	PTA26
HAND OFF AUTO	PTA27
FORW OFF REV	PTA28
ON OFF	PTA29

LEGEND PLATE



CODE
PPTN8

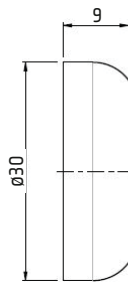
SPECIAL FRAMES ON REQUEST

• SPECIAL FRAMES: NICKEL LINE

The auxiliary controls of Grey Line of Orion Series can be supplied with seal in Nickel.

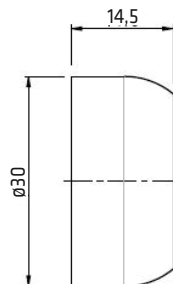
To order Nickel Execution replace the letters "GL" with "NL":

PPRN1GL (Grey Line) > PPRN1NL (Nickel Line)



• SPECIAL FRAMES: SHROUDED Black Line / Grey Line

The auxiliary controls of Orion Series are available also with shrouded seal.



Black Line
Orion Series



Grey Line
Orion Series



TECHNICAL DATA | ELECTRICAL CHARACTERISTICS

CONTACT BLOCKS

EC/EN 60947-5-1 CHARACTERISTICS		P L004001 - P L004002									P C W01 - P C W10 / P S C01 - P S C10								
Rated insulation voltage U _i	V	690*									690*								
Rated impulse withstand voltage U _{imp}	kV	4*									4*								
Operating frequency	Hz	50/60*									50/60*								
Rated thermal current I _{th}	A	16*									16*								
Rated thermal current in enclosed I _{the}	A	10*									10*								
RATED OPERATING CURRENT I _e :		P L004001 - P L004002									P C W01 - P C W10 / P S C01 - P S C10								
AC15: Alternate current	V	24	60	110	230	400	440	500	690	24	60	110	240	400	440	500	690		
	A	16*	12	8	6	4,5	3,5	1*	1	16*	12	5	5*	4	4	4*	2*		
DC13: Direct current	V	24	48	60	110	220				24	48	60	110	250					
	A	2*	1,2	0,85	0,4	0,25*				2	2*	1*	0,4	0,4*					
Conditional short circuit withstand current	A	1000*									1000*								
Fuse rating gG	500V	10A*									10A*								
Contact insulation resistance	mΩ	<25									<25								
Switching mechanism		Slow break double gap contacts									Slow break double gap contacts								
Contact duty		⊕ NC contact with positive opening									⊕ NC contact with positive opening								
Minimum tripping force		4N									4N								
Electrical life AC15	mil. cycles	1A/1,5 - 2A/0,5 - 3A/0,25									1A/1,5 - 2A/0,5 - 3A/0,25								
UL 508 CHARACTERISTICS		P L004001 - P L004002									P C W01 - P C W10 / P S C01 - P S C10								
General Use		10A-600V ac - 2,5A-125V dc									10A-600V ac - 2,5A-125V dc								
Heavy Duty (HD) category		A600-Q600									A600-Q600								

LAMP HOLDER

EC/EN 60947-5-1 CHARACTERISTICS		BUILT-IN LED	
		LED P L004.L. P C W.L. - P S C.L.	
Rated insulation voltage U _i	V	400	
Rated operating voltage U _e	V	AC/DC 12-24	
	V	AC/DC 48	
	V	AC/DC 110	
	V	AC 220	
Max rated power	W	-	
Power supply		-	
Lamp fixing system		-	

TECHNICAL DATA | ELECTRICAL CHARACTERISTICS

STANDARD CONFORMITY		UL - IMQ - R.I.N.A	
Approvals		IEC/EN60947-5-1, UL508	
Protection class	EN 60529 BLACK LINE EN 60529 GREY LINE Conforms to UL50	IP65: Buttons and switches, Multifunction push button IP66/IP67/IP69K: Buttons and switches, Multifunction push button	
Material Group	EN60947-1	Type 1	
Pollution Grade	EN60947-1	II	
Flammability	UL94	3	
Ambient Temperature	°C	VO: live parts	
	°C	Operating: -25 +70	
Climate Protection	IEC68 part 2-3 IEC68 part 2-30	Storage: -30 +70	
Mechanical life:		Hot damp	
Mushroom operators and standard	mil./operations	Unsettled Hot damp	
Push buttons with colour cap		3	
Standard push buttons with lens cap		1	
Standard rotary switches		1	
Rotary switches with lens		0,5	
Emergency stop push buttons with release		0,3	

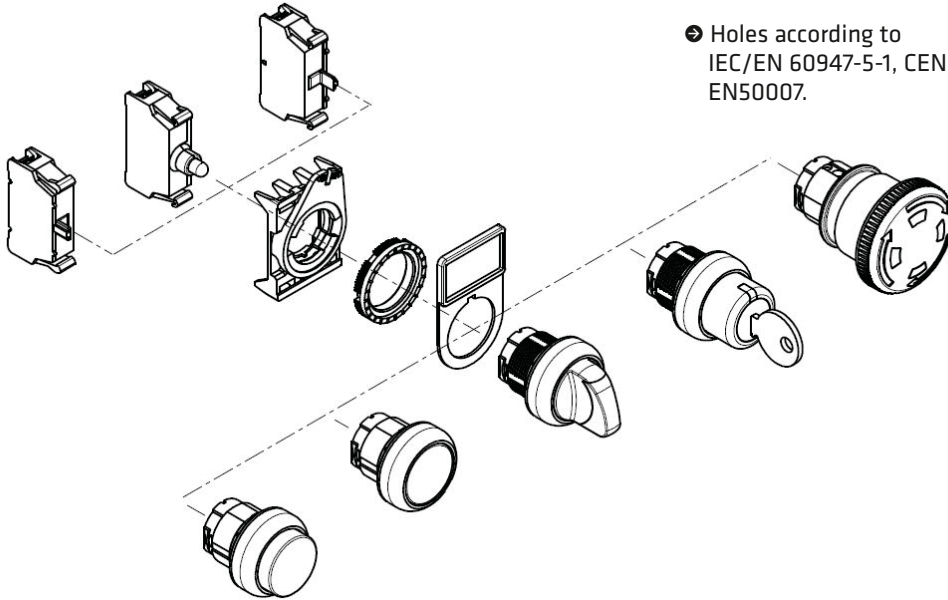
■ UL certified values * IMQ values

AUXILIARY CONTROLS | ORION SERIES

ASSEMBLY INSTRUCTIONS

ASSEMBLY

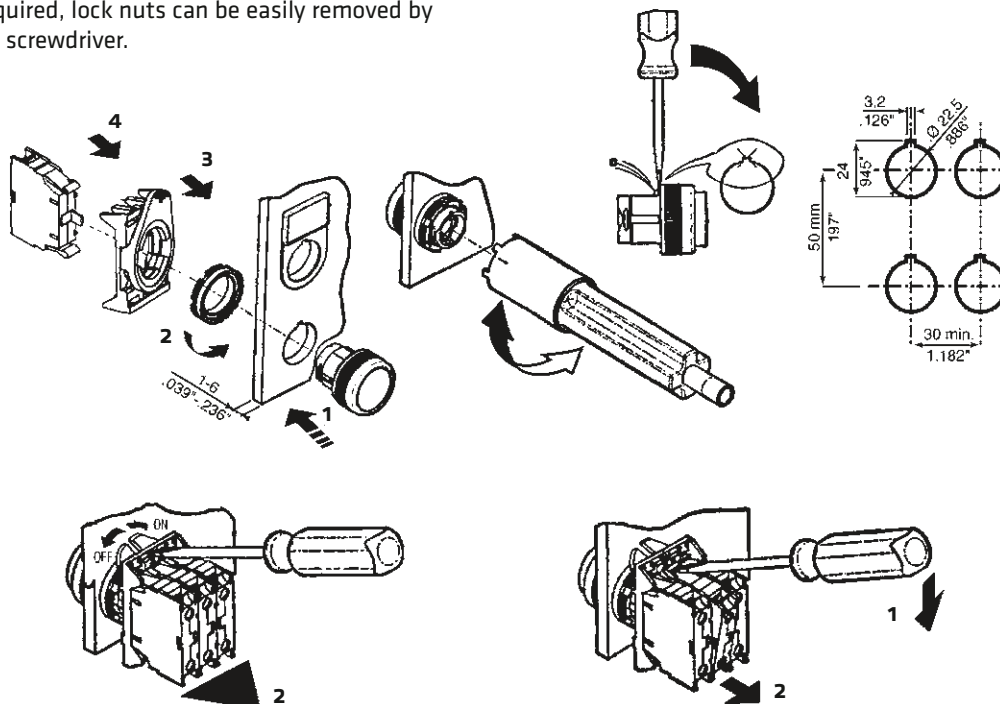
- Modular.
- Holes according to IEC/EN 60947-5-1, CENELEC EN50007.



CENELEC EN50007

- Panel thickness from 1 up to 6 mm.

➤ If not required, lock nuts can be easily removed by means of a screwdriver.





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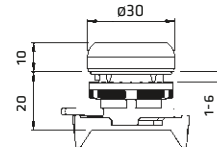
AUXILIARY CONTROLS
NEMA SERIES

PUSH BUTTONS Ø22 | WITH COLOUR CAP | NEMA 4-4X

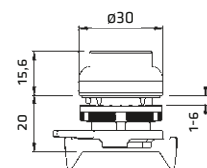
MOMENTARY



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
FLUSH PUSH BUTTON	■	PPRN1GL4X	30	10
	■	PPRN2GL4X	30	10
	■	PPRN3GL4X	30	10
	■	PPRN4GL4X	30	10
	■	PPRN5GL4X	30	10
	■	PPRN8GL4X	30	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
EXTENDED PUSH BUTTON	■	PPSN1GL4X	31	10
	■	PPSN2GL4X	31	10
	■	PPSN3GL4X	31	10
	■	PPSN4GL4X	31	10
	■	PPSN5GL4X	31	10
	■	PPSN8GL4X	31	10

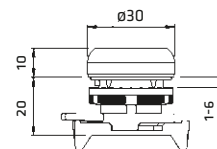


PUSH BUTTONS Ø22 | WITH LENS CAP

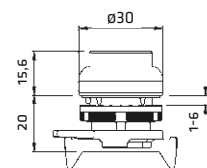
MOMENTARY



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
FLUSH PUSH BUTTON	■	PPRL1GL4X	30	10
	■	PPRL2GL4X	30	10
	■	PPRL3GL4X	30	10
	■	PPRL4GL4X	30	10
	■	PPRL5GL4X	30	10



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY
EXTENDED PUSH BUTTON	■	PPSL1GL4X	31	10
	■	PPSL2GL4X	31	10
	■	PPSL3GL4X	31	10
	■	PPSL4GL4X	31	10
	■	PPSL5GL4X	31	10



AUXILIARY CONTROLS | NEMA SERIES

MULTIFUNCTION PUSH BUTTONS Ø22 | NOT LIGHT | NEMA 4-4X



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
DUAL PUSH BUTTON		PPDNGL4X	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED DUAL PUSH BUTTON		PPDNSGL4X	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MULTIFUNCTION PUSH BUTTON		PPMNSGL4X	40	10	

MULTIFUNCTION PUSH BUTTONS Ø22 | LIGHT | NEMA 4-4X



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
DUAL PUSH BUTTON		PPDLGL4X	38	10	
		PPDLGL4X.1	38	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
EXTENDED DUAL PUSH BUTTON		PPDLSGL4X	38	10	



EMERGENCY PUSH BUTTONS Ø22 | EN ISO 13850 | NEMA 4-4X

	<table border="1"> <thead> <tr> <th>TYPE</th> <th>COLOUR INDEX</th> <th>CODE</th> <th>WEIGHT grams</th> <th>MIN. PACK QUANTITY</th> <th>SIZES</th> </tr> </thead> <tbody> <tr> <td>MUSHROOM OPERATOR Ø30 TWIST TO RELEASE</td> <td>■</td> <td>PPFN1R3N4X</td> <td>42</td> <td>10</td> <td> </td> </tr> </tbody> </table>	TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES	MUSHROOM OPERATOR Ø30 TWIST TO RELEASE	■	PPFN1R3N4X	42	10	
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES								
MUSHROOM OPERATOR Ø30 TWIST TO RELEASE	■	PPFN1R3N4X	42	10									
	<table border="1"> <thead> <tr> <th>TYPE</th> <th>COLOUR INDEX</th> <th>CODE</th> <th>WEIGHT grams</th> <th>MIN. PACK QUANTITY</th> <th>SIZES</th> </tr> </thead> <tbody> <tr> <td>MUSHROOM OPERATOR WITH VISION Ø30 TWIST TO RELEASE</td> <td>■</td> <td>PPFN1R3S4X</td> <td>44</td> <td>10</td> <td> </td> </tr> </tbody> </table>	TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES	MUSHROOM OPERATOR WITH VISION Ø30 TWIST TO RELEASE	■	PPFN1R3S4X	44	10	
TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES								
MUSHROOM OPERATOR WITH VISION Ø30 TWIST TO RELEASE	■	PPFN1R3S4X	44	10									

TECHNICAL NOTES

- All operators comply with the relevant European and American standard.
- EN ISO 13850: Machine safety - Emergency stop operators, functional characteristics - Design guidelines.
- IEC/EN6097-5-1.
- Comply with the standard IEC/EN60204-1: Machine safety - Machine electrical circuits - General guidelines.
- The push buttons are designed with a load charge mechanism to ensure a reliable operation and stoppage, or blockage, in the activate position. The combination with positive switching NC ➤ contacts and the presence of the "status" indicator on some models, guarantee a high degree of reliability and effectiveness.

AUXILIARY CONTROLS | NEMA SERIES

EMERGENCY PUSH BUTTONS Ø22 | EN ISO 13850 | NEMA 4-4X



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 TWIST TO RELEASE	■	PPFN1R4N4X	44	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR WITH VISION Ø40 TWIST TO RELEASE	■	PPFN1R4S4X	46	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 WITH KEY RELEASE	■	PPFN1C4NX4X (not EN ISO 13850)	76	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 PUSH-PULL	■	PPFN1P4N4X	44	10	



TYPE	COLOUR INDEX	CODE	WEIGHT grams	MIN. PACK QUANTITY	SIZES
MUSHROOM OPERATOR Ø40 PUSH-PULL WITH VISION	■	PPFN1P4S4X	46	10	

ROTARY SWITCHES Ø22 | NEMA 4-4X

WITH OPERATOR

WITH LIGHT OPERATOR

WITH KEY



POSITION	COLOUR INDEX	CODE	COLOUR INDEX	CODE	KEY REMOVAL			CODE
					L	O	R	
 90°	■	PSMB1DOGL4X	■	PSML1DOGL4X		*		PSCR8DOCGL4X
	■	PSMB2DOGL4X	■	PSML2DOGL4X				PSCR8DOEGL4X
	■	PSMB3DOGL4X	■	PSML3DOGL4X			*	PSCR8DONGL4X
	■	PSMB4DOGL4X	■	PSML4DOGL4X		*	*	
	■	PSMB5DOGL4X	■	PSML5DOGL4X				
	■	PSMB8DOGL4X	■					
 45°	■	PSMB1D1GL4X	■	PSML1D1GL4X		*		PSCR8D1CGL4X
	■	PSMB2D1GL4X	■	PSML2D1GL4X				PSCR8D1EGL4X
	■	PSMB3D1GL4X	■	PSML3D1GL4X			*	PSCR8D1NGL4X
	■	PSMB4D1GL4X	■	PSML4D1GL4X		*	*	
	■	PSMB5D1GL4X	■	PSML5D1GL4X				
	■	PSMB8D1GL4X	■					
 45°	■	PSMB1D2GL4X	■	PSML1D2GL4X		*		PSCR8D2CGL4X
	■	PSMB2D2GL4X	■	PSML2D2GL4X				
	■	PSMB3D2GL4X	■	PSML3D2GL4X				
	■	PSMB4D2GL4X	■	PSML4D2GL4X				
	■	PSMB5D2GL4X	■	PSML5D2GL4X				
	■	PSMB8D2GL4X	■					
 45°	■	PSMB1TOGL4X	■	PSML1TOGL4X		*		PSR8TOCGL4X
	■	PSMB2TOGL4X	■	PSML2TOGL4X	*			PSR8TOAGL4X
	■	PSMB3TOGL4X	■	PSML3TOGL4X			*	PSR8TOEGL4X
	■	PSMB4TOGL4X	■	PSML4TOGL4X	*	*	*	PSR8TOGGL4X
	■	PSMB5TOGL4X	■	PSML5TOGL4X	*	*		PSR8TOHGL4X
	■	PSMB8TOGL4X	■		*		*	PSR8TOKGL4X
 45°	■	PSMB1T3GL4X	■	PSML1T3GL4X		*		PSR8TONGL4X
	■	PSMB2T3GL4X	■	PSML2T3GL4X				
	■	PSMB3T3GL4X	■	PSML3T3GL4X				
	■	PSMB4T3GL4X	■	PSML4T3GL4X				
	■	PSMB5T3GL4X	■	PSML5T3GL4X				
	■	PSMB8T3GL4X	■					
 45°	■	PSMB1T2GL4X	■	PSML1T2GL4X		*		PSCR8T2CGL4X
	■	PSMB2T2GL4X	■	PSML2T2GL4X				PSCR8T2AGL4X
	■	PSMB3T2GL4X	■	PSML3T2GL4X	*			PSCR8T2HGL4X
	■	PSMB4T2GL4X	■	PSML4T2GL4X				
	■	PSMB5T2GL4X	■	PSML5T2GL4X	*	*		
	■	PSMB8T2GL4X	■					
 45°	■	PSMB1T1GL4X	■	PSML1T1GL4X		*		PSCR8T1CGL4X
	■	PSMB2T1GL4X	■	PSML2T1GL4X				PSCR8T1EGL4X
	■	PSMB3T1GL4X	■	PSML3T1GL4X			*	PSCR8T1NGL4X
	■	PSMB4T1GL4X	■	PSML4T1GL4X		*	*	
	■	PSMB5T1GL4X	■	PSML5T1GL4X				
	■	PSMB8T1GL4X	■					

1 For standard rotary switches suitable to operate a central contact, replace the letter "B" with the letter "C": PSMB1CDO or PSCR8SDE
 2 For rotary switches with Left - Right operating angles replace the letters "DO" with "SD": PSMB1SDO or PSCR8SDE

* Key removable position

AUXILIARY CONTROLS | NEMA SERIES

OPERATOR CAPS Ø22 | NEMA 4-4X

MOMENTARY FLUSH PUSH BUTTONS



SYMBOL	COLOUR	CODE	SYMBOL	COLOUR	CODE
	■	PPRN2GL4X/I		■	PPRN2GL4X/ON
	■	PPRN1GL4X/O		■	PPRN1GL4X/OFF
	■	PPRN2GL4X/II		■	PPRN5GL4X/F
	■	PPRN2GL4X/START		■	PPRN8GL4X/F
	■	PPRN1GL4X/STOP			

Available others symbols on request, also in different languages and colours.



ACCESSORIES | NEMA 4-4X

CENTRAL CONTACT OPERATION



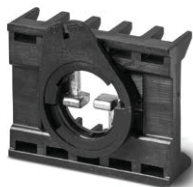
DESCRIPTION	CODE
NEMA 4X SERIES	11708555

KEY FIXING BULB EXTRACTOR



CODE
PCF

CONTACTS SUPPORT



DESCRIPTION	CODE
TO CONTACT ELEMENTS PL, PCW, PSC	PPELN8

DESCRIPTION	CODE
TO FIVE CONTACT ELEMENTS PL, PCW, PSC	PPELN8-5

FASTON CONNECTORS AND FOR PCB



DESCRIPTION	CODE
FASTON 6,3x0,8	11708341

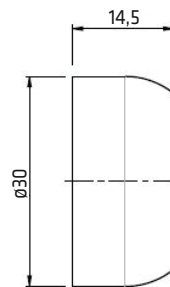
DESCRIPTION	CODE
PCB	11708235

TO SCREW CONTACTS PL

SPECIAL FRAMES ON REQUEST

• **SPECIAL FRAMES: SHROUDED NEMA**

The auxiliary controls of NEMA Series are available also with shrouded seal.



NEMA Series

AUXILIARY CONTROLS | NEMA SERIES

TECHNICAL DATA | ELECTRICAL CHARACTERISTICS

CONTACT BLOCKS

EC/EN 60947-5-1 CHARACTERISTICS		PLO04001-PLO04002								PCW01-PCW10 / PSC01-PSC10							
Rated insulation voltage Ui	V	690*								690*							
Rated impulse withstand voltage Uimp	kV	4*								4*							
Operating frequency	Hz	50/60*								50/60*							
Rated thermal current Ith	A	16*								16*							
Rated thermal current in enclosed Ithe	A	10*								10*							
RATED OPERATING CURRENT Ie:		PLO04001-PLO04002								PCW01-PCW10 / PSC01-PSC10							
AC15: Alternate current	V	24	60	110	230	400	440	500	690	24	60	110	240	400	440	500	690
	A	16*	12	8	6	4,5	3,5	1*	1	16*	12	5	5*	4	4	4*	2*
DC13: Direct current	V	24	48	60	110	220				24	48	60	110	250			
	A	2*	1,2	0,85	0,4	0,25*				2	2*	1*	0,4	0,4*			
Conditional short circuit withstand current	A	1000*								1000*							
Fuse rating gG	500V	10A*								10A*							
Contact insulation resistance	mΩ	<25								<25							
Switching mechanism		Slow break double gap contacts								Slow break double gap contacts							
Contact duty		☉ NC contact with positive opening								☉ NC contact with positive opening							
Minimum tripping force		4N								4N							
Electrical life AC15	mil. cycles	1A/1,5 - 2A/0,5 - 3A/0,25								1A/1,5 - 2A/0,5 - 3A/0,25							
UL 508 CHARACTERISTICS		PLO04001-PLO04002								PCW01-PCW10 / PSC01-PSC10							
General Use		10A-600V ac - 2,5A-125V dc								10A-600V ac - 2,5A-125V dc							
Heavy Duty (HD) category		A600-Q600								A600-Q600							

LAMP HOLDER

		BUILT-IN LED	
EC/EN 60947-5-1 CHARACTERISTICS		LED PLO04.L. PCW.L.-PSC.L.	
Rated insulation voltage Ui	V	400	
Rated operating voltage Ue	V	AC/DC 12-24	
	V	AC/DC 48	
	V	AC/DC 110	
	V	AC 220	
Max rated power	W	-	
Power supply		-	
Lamp fixing system		-	

TECHNICAL DATA | ELECTRICAL CHARACTERISTICS

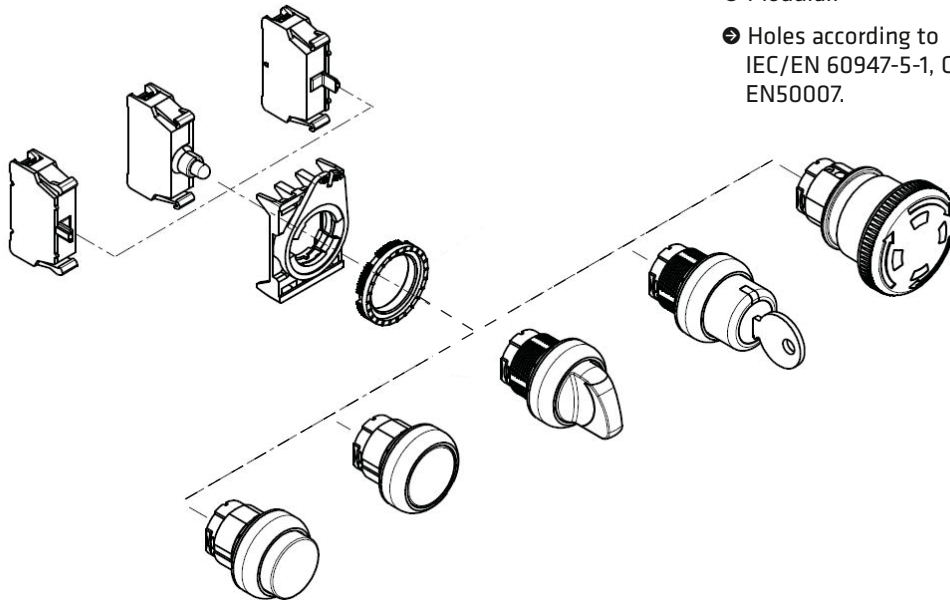
STANDARD CONFORMITY		UL	
Approvals		UL508, CSA 22.2	
Protection class		Buttons and switches, Multifunction push button Emergency push buttons EN ISO 13850 Type 1-4-4X	
	Conforms to UL50		
Material Group	EN60947-1	II	
Pollution Grade	EN60947-1	3	
Ambient Temperature	°C	Operating: -25 +70	
	°C	Storage: -30 +70	
Climate Protection	IEC68 part 2-3	Hot damp	
	IEC68 part 2-30	Unsettled Hot damp	
Mechanical life:			
Push buttons with colour cap	mil./operations	3	
Standard push buttons with lens cap		1	
Standard rotary switches		1	
Rotary switches with lens		0,5	
Emergency stop push buttons with release		0,3	



ASSEMBLY INSTRUCTIONS

ASSEMBLY

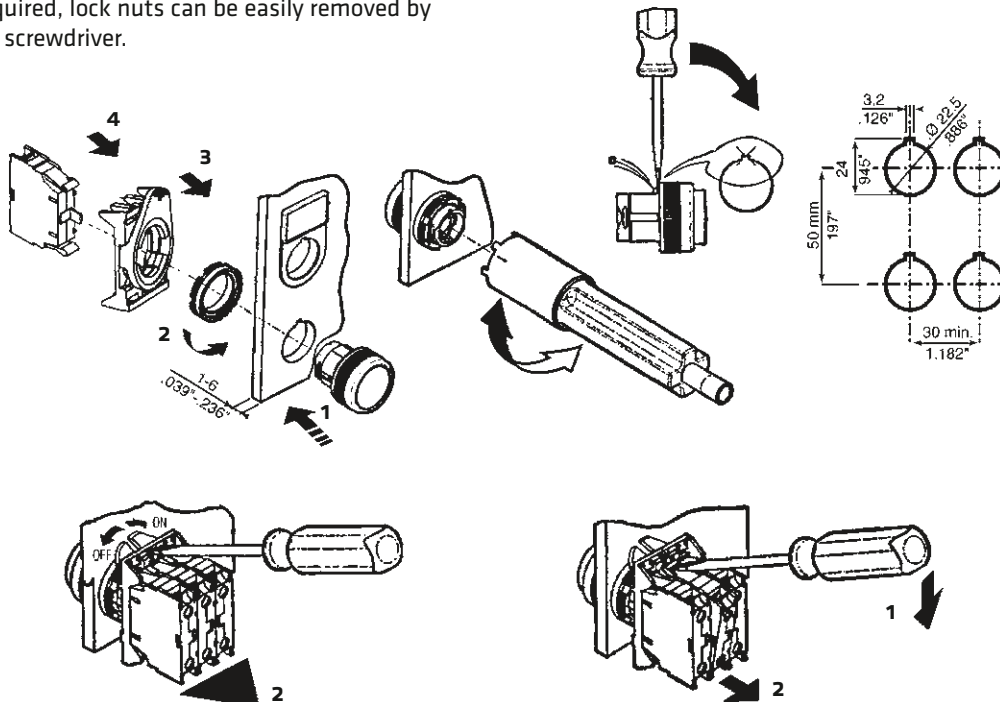
- Modular.
- Holes according to IEC/EN 60947-5-1, CENELEC EN50007.



CENELEC EN50007

- Panel thickness from 1 up to 6 mm.

- If not required, lock nuts can be easily removed by means of a screwdriver.





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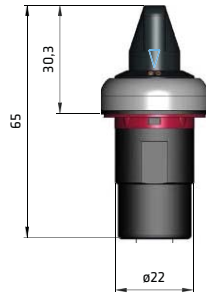


**POTENTIOMETERS &
DOUBLE SOCKETS**

➔ Full Potentiometer enclosed in a single block standard 22 mm diameter, plug & play, ready to be fixed on an electrical panel.

➔ The potentiometer is provided in different versions depending on the ohmic resistance required with a 3-poles terminal board with an easy push-in type spring-operated connection. This technology allows a very handy quick wiring procedure, since the wire just needs to be inserted into the appropriate hole in order to be secured and to establish the electrical connection.

Marking



BLACK LINE	NICKEL LINE
PPPTNBL1K	PPPTNNL1K
PPPTNBL2K5	PPPTNNL2K5
PPPTNBL5K	PPPTNNL5K
PPPTNBL10K	PPPTNNL10K
PPPTNBL50K	PPPTNNL50K
PPPTNBL100K	PPPTNNL100K
PPPTNBL500K	PPPTNNL500K

TECHNICAL DATA	
Protection class	IP67 (IEC 60529) IP69K (ISO 20653)
Ambient temperature	-40°C +90°C
Mechanical endurance	75000 operations cycles
Resistance range	Linear 1kΩ k to 0.5MΩ
Tolerance	Linear: 10%
Linearity (typical)	± 5 % independent
End resistance	4Ω maximum each end
Power rating	0.5 W at 70°C - 0 W at 120°C
Effective rotation	270° ± 10° without rotary switch 240° ± 10° with rotary switch
Contact resistance variation	1,5% of total resistance - 3% of total resistance
Max continuous working voltage	350 VAC across end terminals, but within power rating
Electrical scheme	
Ohmic resistance	001K 1000 Ω 02K5 2500 Ω 005K 5000 Ω 010K 10,000 Ω 050K 50,000 Ω 100K 100,000 Ω 500K 500,000 Ω
Standard reference	IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1
Directive reference	Low voltage directive 2006/95/EC, Machinery directive 2006/42/EC and EMC directive 2004/108/EC.

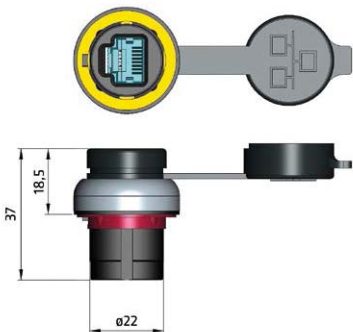



DOUBLE SOCKETS



RJ45 DOUBLE SOCKET

- RJ45 connector in a standard 22 mm diameter block “plug & play”.
- It makes possible to bring the Ethernet networks through an electrical panel without open it.
- The protection rubber cap integrated remains joined to the device to avoid to be lost and prevents any water or dirt from penetrating inside.

Marking 

BLACK LINE

PP2RJ45BL

NICKEL LINE

PP2RJ45NL

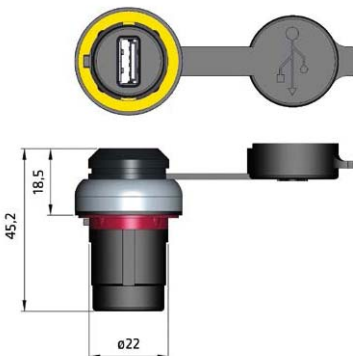

TECHNICAL DATA

Connection	RJ45
Protection degree	IP67 (IEC 60529)
Ambient temperature	-25°C +75°C
Standard reference	IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1
Directive reference	Low voltage directive 2006/95/EC, Machinery directive 2006/42/EC and EMC directive 2004/108/EC.



USB 2.0 & 3.0 DOUBLE SOCKETS

- USB socket in a standard 22 mm diameter block “plug & play”.
- It makes possible to transfer data and electricity through an electrical panel without open it.
- The protection rubber cap integrated remains joined to the device to avoid to be lost and prevents any water or dirt from penetrating inside.

Marking 

BLACK LINE

PP2USB20BL

PP2USB30BL

NICKEL LINE

PP2USB20NL

PP2USB30NL

TECHNICAL DATA

Connection	USB 2.0 - USB 3.0
Protection degree	IP67 (IEC 60529)
Ambient temperature	-25°C +75°C
Standard reference	IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1
Directive reference	Low voltage directive 2006/95/EC, Machinery directive 2006/42/EC and EMC directive 2004/108/EC.

USB 2.0

The USB 2.0 socket takes advantage of the standard data transfer speed. It's the most frequently used on the market and furthermore this option offers the best value for money.

USB 3.0

The USB 3.0 is the latest generation of data transfer on the market. This solution offers the maximum data transfer speed and the socket is backward compatible with previous USB connectors.



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FOOT SWITCHES
SINGLE & DOUBLE



Single or double foot switches thermoplastic type with the EN ISO 13850 emergency stop option.
Available with electric or pneumatic controls.

SAFETY FOOT SWITCHES

Application

The safety foot switches are used as control switches of machines and plants when the operator must have his hands free to perform other functions.

Design and mode of operation

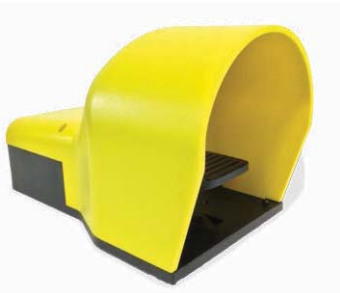
The safety foot switches in thermoplastic material are equipped with a shield to protect against accidental and unintentional actuation due to tool drop or unwanted trampling. In addition they are equipped with non-slip rubber feet and mechanical lock mounted in the pedal to prevent it from operating in the case the foot has not been fully positioned above the pedal.

The version without blocking and without foot protection cap is preferred when the main function is to stop the machine.

The electric foot switches can be equipped with a mushroom button as an emergency to interrupt the circuit even in the case of a actuated pedal. The electric contact exchange occurs when the pedal is completely lowered. The protection degree for single foot switches is IP65, while for double and with emergency mushroom is IP54. All foot switches are compliant with the Machinery Directive and are CE-marked.



PRODUCT



DESCRIPTION

Foot switch
with trigger mechanism
requiring positive action
to allow pedal operation.

Colour:
■ PANTONE 102C

CONTACTS

Slow break

CODE

MIN. PACK

Quantity

WEIGHT

grams

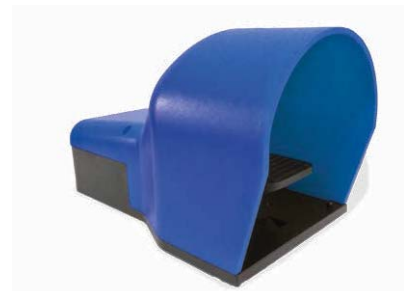
1NO	IP7007	1	1.400
2NO	IP7008	1	1.400
1NO+1NC	IP7007I	1	1.400
1NO	IP7009	1	1.400
Two speeds 1NO+1NO	IP7015	1	1.400

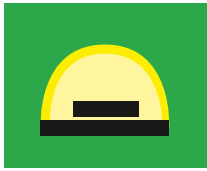
This product is also available in different colors:

Colour:
■ RAL 7035



Colour:
■ RAL 5010





FOOT SWITCHES SERIES

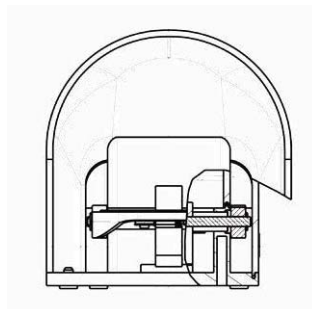
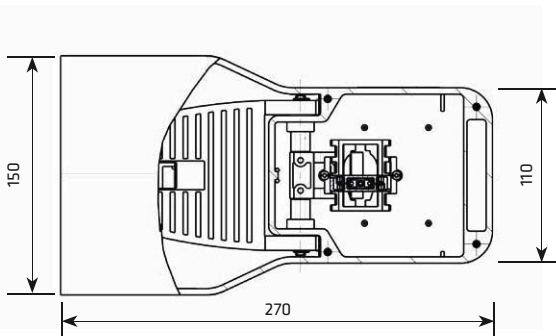
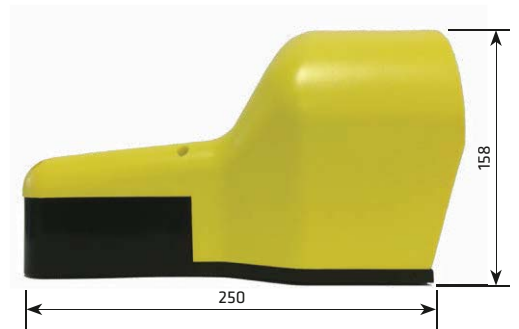
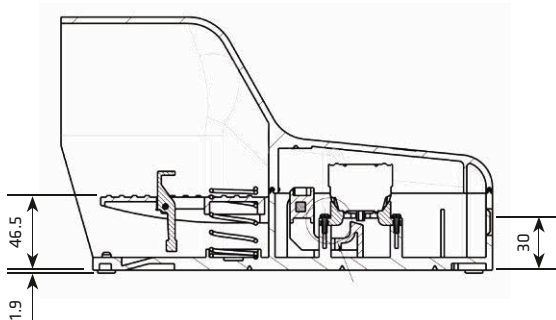
IP65

GENERAL CHARACTERISTICS

Comply with		IEC/EN60947-5-1							
Rated insulation voltage U_i	V	690 (pollution class 3)							
Rated impulse withstand voltage U_{imp}	kV	4							
Operating frequency	Hz	50/60							
Rated thermal current I_{th}	A	10							
Rated operating current I_e :									
AC-15 alternate current	V	24	60	120	240	400	440	500	690
	A	16	12	8	6	4,5	3,5	1	1
DC-13 continuous current	V	24	48	60	110	220			
	A	2	1,2	0,85	0,4	0,25			
Conditional short circuit withstand		1000A - 10A-500V class gG fuses							
Contact impedance	m Ω	≤ 25							
Contact type		Slow break double gap contacts							
Positive opening		NC contact with positive opening							
Electric shock protection	IEC 536	Class II							
Protection rating	IEC 529	IP65							
Ambient temperature	$^{\circ}\text{C}$	Operating: -25 +70							
	$^{\circ}\text{C}$	Storage: -30 +70							
Cable entry		pre-broken hole 16,5 - M20 (with safety)							



DIMENSIONAL DRAWINGS





Single foot switches thermoplastic material.
Available with electric or pneumatic controls.

SINGLE FOOT SWITCHES

GENERAL CHARACTERISTICS


Application



The foot switches are used to start and stop operations and production processes on machinery and plants, where manual operation is impossible. Different foot switches versions are available depending on the ambient conditions and the mechanical behaviour. Applications include use on packaging machines, storage and transport technology as well as on textile machines.

Configurations

- Electrical version with NO contacts, single, double speed and with NC contacts with positive opening.
- Pneumatic version with 5 and 2 ways valves.
- With hooking device to keep the pedal lowered and the contact activated until the release is made by the front of the foot.
- The shaft with knob or handle on the tubular is available in the version with an emergency mushroom to carry the foot switch comfortably.

Comply with		IEC/EN60947-5-1							
Rated insulation voltage Ui	V	690 (pollution class 3)							
Rated impulse withstand voltage Uimp	kV	4							
Operating frequency	Hz	50/60							
Rated thermal current Ith	A	10							
Rated operating current Ie:									
AC-15 alternate current	V	24	60	120	240	400	440	500	690
	A	16	12	8	6	4,5	3,5	1	1
DC-13 continuous current	V	24	48	60	110	220			
	A	2	1,2	0,85	0,4	0,25			
Conditional short circuit withstand		1000A - 10A-500V class gG fuses							
Contact impedance	m Ω	≤25							
Contact type		Slow break double gap contacts							
Positive opening		NC contact with positive opening Ⓢ							
Electric shock protection	IEC 536	Class II							
Protection rating	IEC 529	IP65							
Ambient temperature	°C	Operating: -25 +70							
	°C	Storage: -30 +70							
Cable entry		pre-broken hole 16,5 - M20 (with safety)							

PRODUCT	DESCRIPTION	CONTACTS	CODE	MIN. PACK	WEIGHT
	Foot switch with pedal latching device and without trigger mechanism. Colour: ■ PANTONE 102C	Slow break		Quantity	grams
		1NO	IP7011	1	1.400

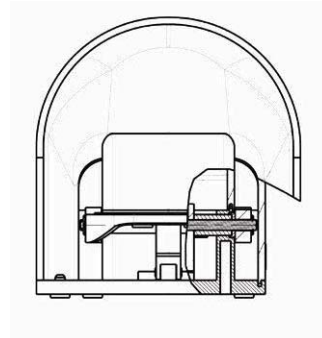
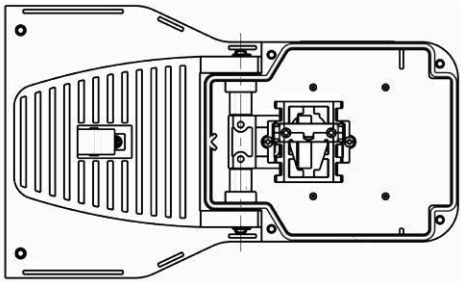
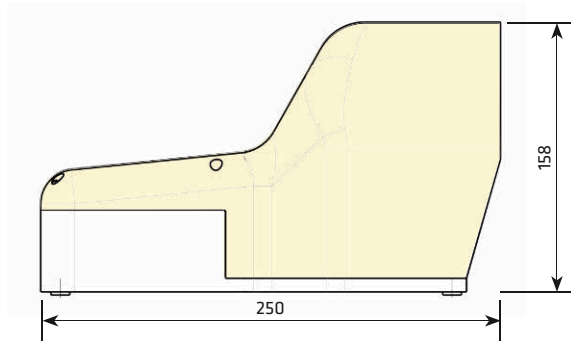
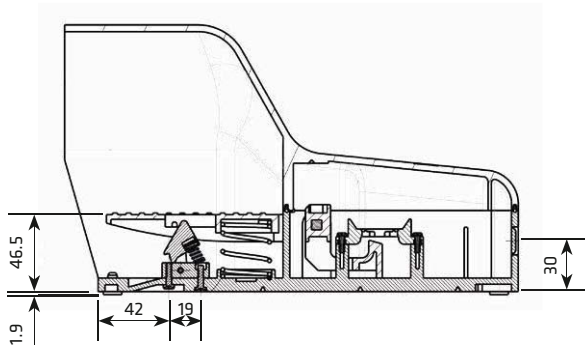
PRODUCT	DESCRIPTION	CONTACTS	CODE	MIN. PACK	WEIGHT
	Foot switch without rest position trigger mechanism. Colour: ■ RAL 3020	Slow break		Quantity	grams
		1NO+1NC	IP7006I	1	1.300
	Foot switch with pedal latching device and without trigger mechanism. Colour: ■ RAL 3020	Slow break		Quantity	grams
		1NO+1NC	IP7035	1	1.300



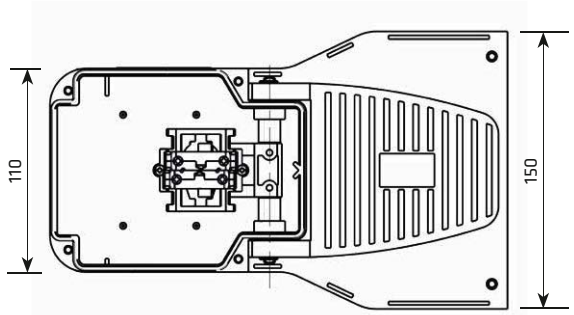
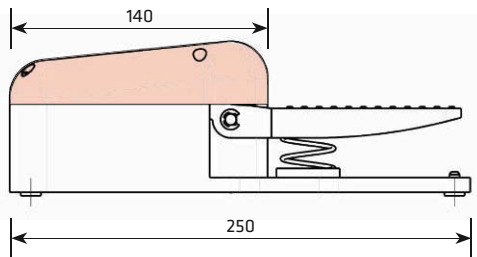
FOOT SWITCHES SERIES | SINGLE FOOT SWITCHES SERIES

IP65

DIMENSIONAL DRAWINGS




DIMENSIONAL DRAWINGS





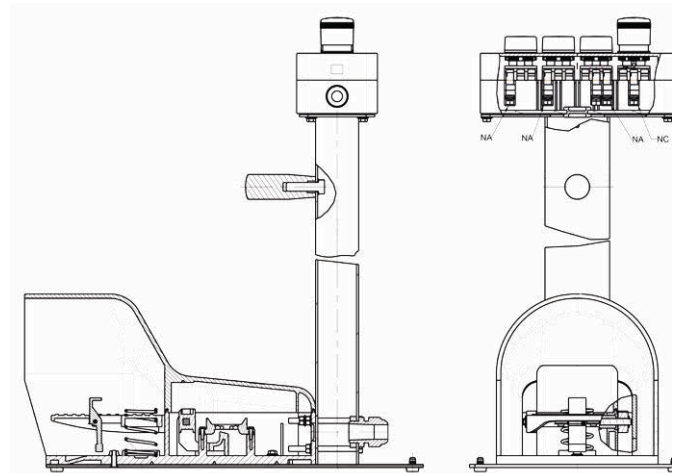
Single foot switches thermoplastic material.
Available with electric or pneumatic controls.


SINGLE FOOT SWITCHES	DESCRIPTION	CONTACTS	CODE	MIN. PACK	WEIGHT
	Foot switch with trigger mechanism and ENI ISO 13850 emergency stop. Colour: ■ PANTONE 102C	Slow break		Quantity	grams
		1NO	IP7007EM	1	3.900
		Two speeds 1NO + 1NO	IP7015EM	1	3.910

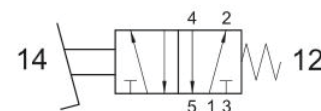



ON REQUEST

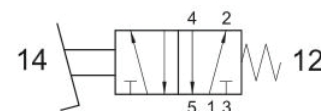
IP7026 with PQ01 station 4 holes with EN ISO 13850 emergency stop.




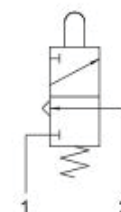
PNEUMATIC SINGLE FOOT SWITCHES	DESCRIPTION	CONTACTS	CODE	MIN. PACK	WEIGHT
	Foot switch pneumatic with trigger mechanism. Colour: ■ PANTONE 102C	Slow break		Quantity	grams
		With 1/4" 5 ways valve	IP7023	1	1.600



	Foot switch Pneumatic with pedal latching device and without trigger mechanism. Colour: ■ PANTONE 102C	With 1/4" 5 ways valve	IP7024	1	1.600
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	Foot switch Pneumatic with trigger mechanism. Colour: ■ PANTONE 102C	With 3/2" 2 ways valve	IP7032	1	1.600
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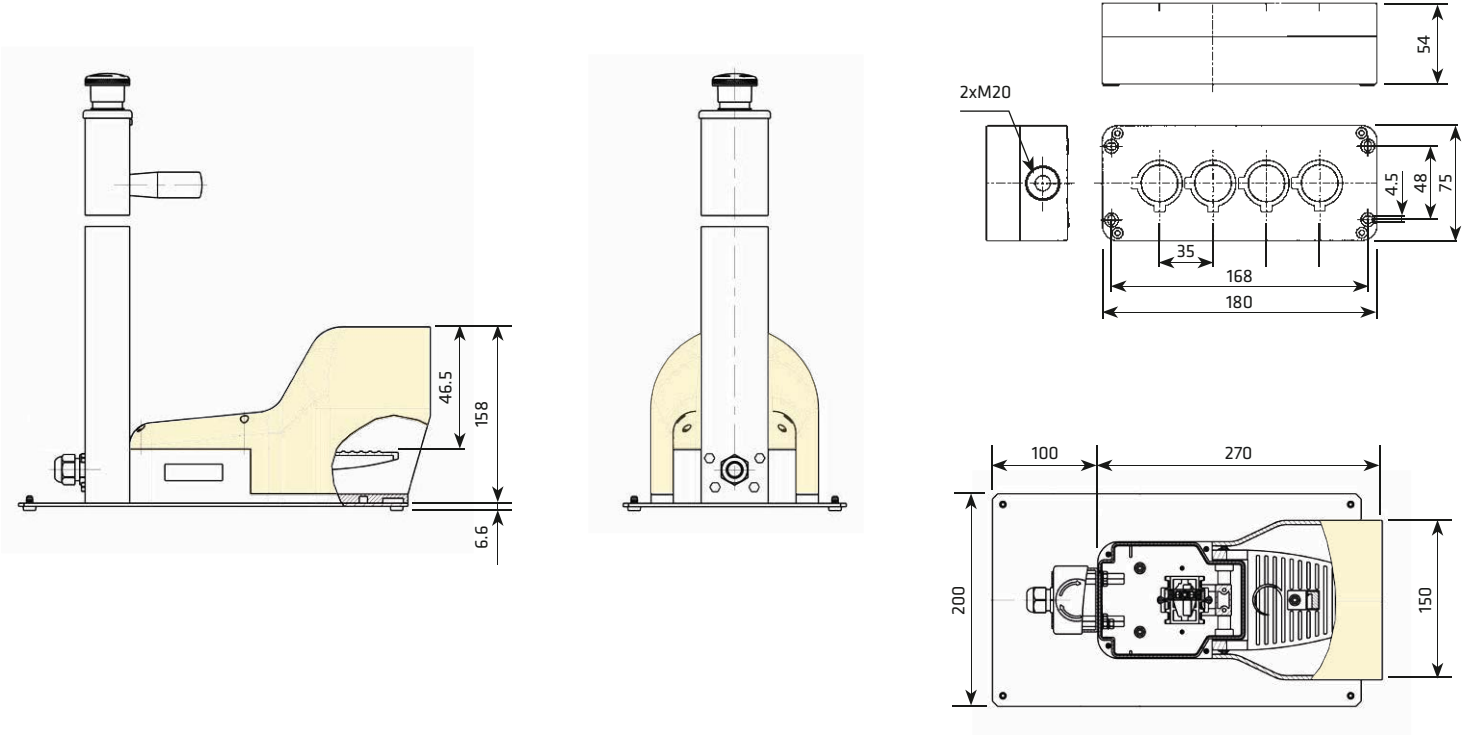
Working pressure 2:10 bar.



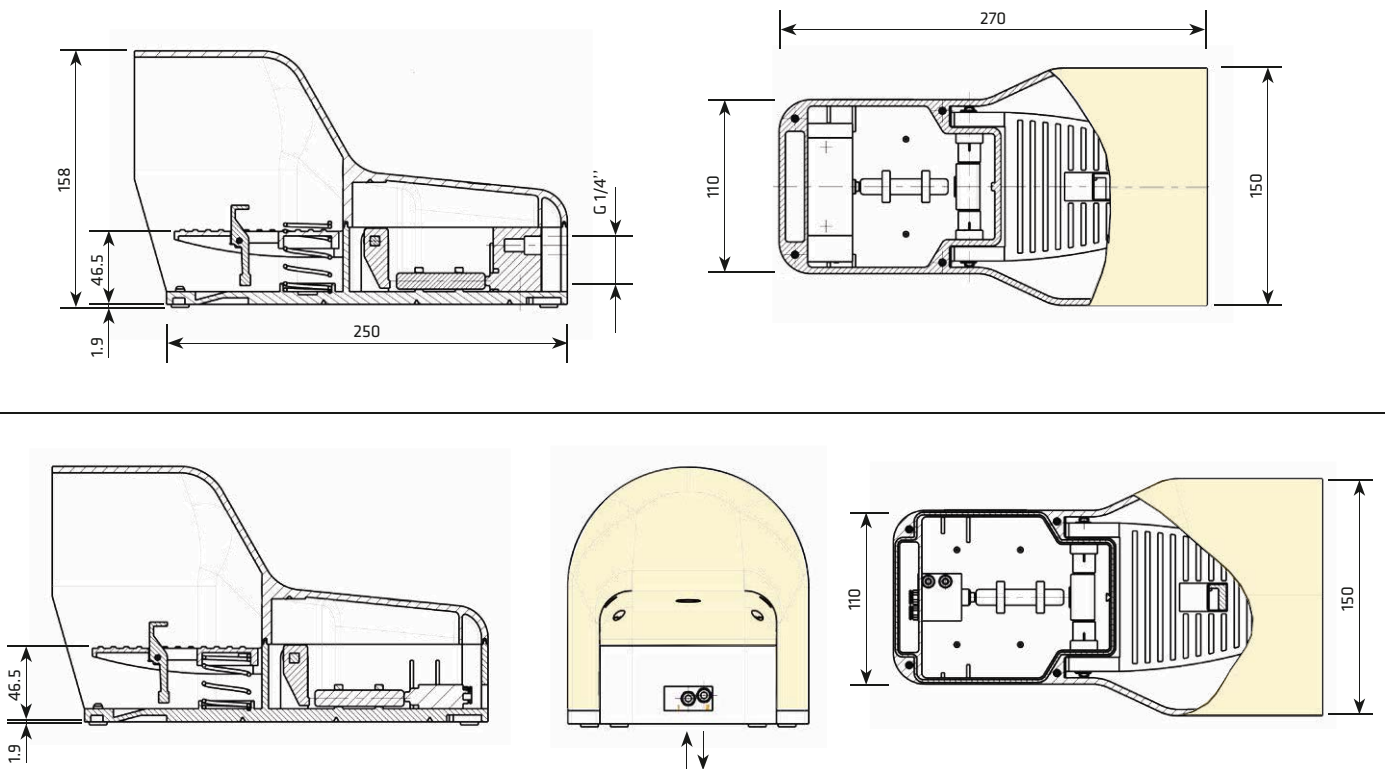
FOOT SWITCHES SERIES | SINGLE FOOT SWITCHES SERIES

IP54 □

DIMENSIONAL DRAWINGS



DIMENSIONAL DRAWINGS





Double foot switches thermoplastic type with EN ISO 418 emergency stop option.

DOUBLE FOOT SWITCHES WITH EN 418 EMERGENCY STOP

DESCRIPTION

Foot switch with trigger mechanism requiring positive action to allow pedal operation.

Colour:
■ PANTONE 102C

CONTACTS

Slow break

1NO + 1NO

CODE

IP7018EM

2NO + 2NO

IP7019EM

MIN. PACK

Quantity

1

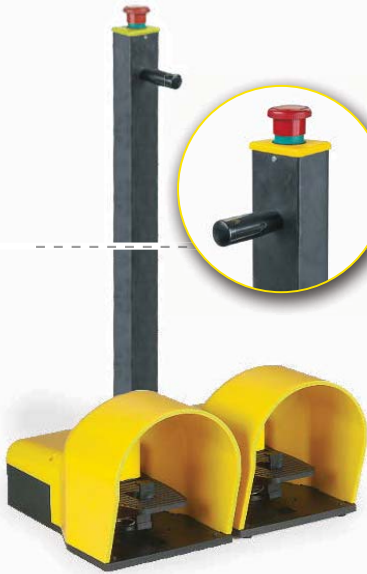
1

WEIGHT

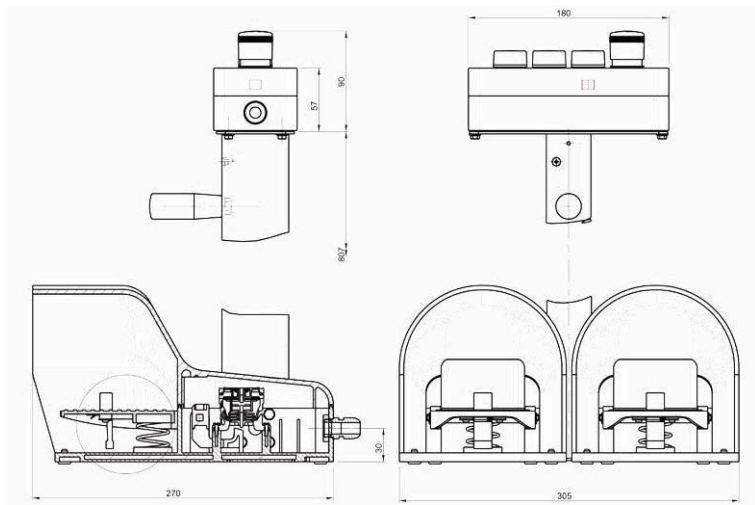
grams

5.300

5.300



ON REQUEST



Available double foot switch **IP7027** with PQ04 station 4 holes with EN ISO 13850 emergency stop.

Double foot switches thermoplastic type with EN ISO 13850.

DOUBLE FOOT SWITCHES

DESCRIPTION

Foot switch with trigger mechanism requiring positive action to allow pedal operation.

Colour:
■ PANTONE 102C

CONTACTS

Slow break

1NO + 1NO

CODE

IP7018

2NO + 2NO

IP7019

MIN. PACK

Quantity

1

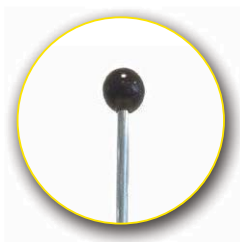
1

WEIGHT

grams

3.100

3.100

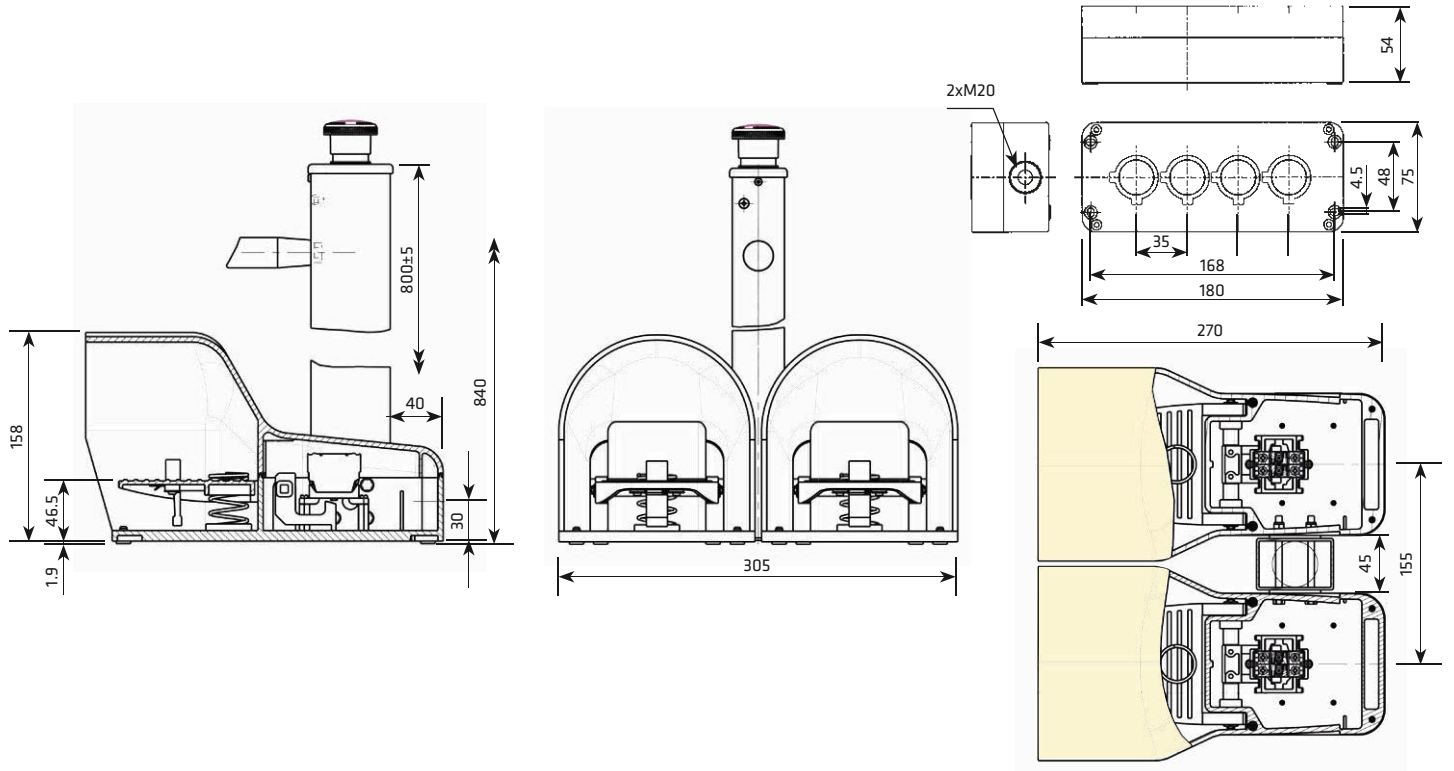




FOOT SWITCHES SERIES | DOUBLE FOOT SWITCHES SERIES

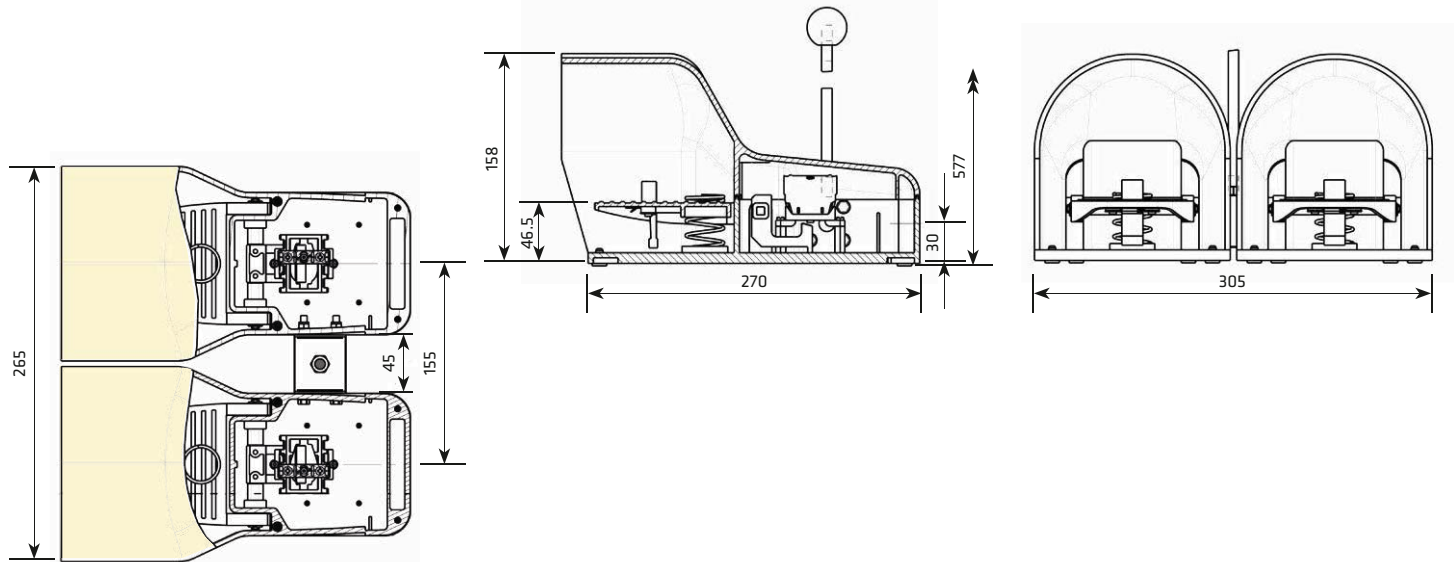
IP54

DIMENSIONAL DRAWINGS



IP54

DIMENSIONAL DRAWINGS





Contact blocks, Pegasus Emergency Push Button



CONTACT BLOCKS	DESCRIPTION	CODE	COLOUR	FUNCTIONS	SCHEME
	Contact Blocks Screw terminals.	PL004001	RED	0 1,5 6mm 	NC 1 — 2
		PL004002	GREEN	0 3,5 6mm 	NO 3 — 4

CHARACTERISTICS IEC/EN60947-5-1 // PLO04001 AND PLO04002

Rated insulation voltage U_i	V	690*
Rated impulse withstand voltage U_{imp}	kV	4*
Frequency	Hz	50/60*
Rated thermal current I_{th}	A	16*
Rated thermal current I_{the}	A	10

RATED OPERATING CURRENT // PLO04001 AND PLO04002

AC-15 alternate current	V	24	60	120	240	400	440	500	690
	A	16*	12	8	6	4,5	3,5	1*	1
DC-13 continuous current	V	24	48	60	110	220			
	A	2*	1,2	0,85	0,4	0,25*			
Short Circuit characteristics	A	1000A*							
Fuse Rating gG	500 V	10A*							
Contact insulation resistance	m Ω	<25							
Switching mechanism		Slow break double gap contacts							
Contact Duty		NC contact with positive opening ☺							
Minimum tripping force		4N							
Electrical life AC15/mil. cycles	mil. cycles	1A/1,5 - 2A/0,5 - 3A/0,25							

UL508 CHARACTERISTICS // PLO04001 AND PLO04002

Rated insulation voltage U_i	V	10A-600V ac // 2,5A-125V dc
Rated impulse withstand voltage U_{imp}	kV	A600-Q600

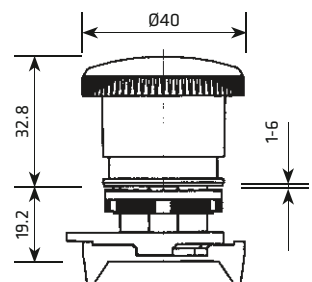
*IMQ Approval Values

PEGASUS EMERGENCY PUSH BUTTON



DESCRIPTION	CODE	COLOUR	MIN. PACK	WEIGHT
Push Button Mushroom operator Ø40 twist to release.	PPFN1R4N	RAL 3020	10	44

DIMENSIONAL DRAWINGS



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