









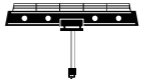
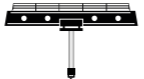



PENDANT AND WALL-MOUNTED CONTROL STATIONS

Pages 6 .. 65

Ergonomic, resistant and flexible solutions for applications on cranes, hoists and other industrial lifting machinery. Available complete devices, custom kits, spare parts and accessories.

<p>P02</p>  <p>COMPLETE DEVICE with two push buttons - single row for small hoist Pages 8 .. 11</p>	<p>P03</p>  <p>COMPLETE DEVICE with three push buttons - single row for small hoist Pages 12 .. 15</p>	<p>HP03</p>  <p>COMPLETE DEVICE with three push buttons for hoist ergonomic shape Pages 16 .. 19</p>	<p>HP05</p>  <p>COMPLETE DEVICE with five push buttons for hoist ergonomic shape Pages 20 .. 23</p>	
<p>HP07</p>  <p>COMPLETE DEVICE with seven push buttons for crane ergonomic shape Pages 24 .. 29</p>	<p>HP08</p>  <p>COMPLETE DEVICE with eight push buttons for crane ergonomic shape Pages 30 .. 35</p>	<p>PLN</p>  <p>COMPLETE DEVICE from 5 to 12 push buttons - single row for crane Pages 36 .. 47</p>	<p>TLP</p>  <p>COMPLETE DEVICE from 1 to 4 push buttons - single row for truck tail lift Pages 48 .. 53</p>	
<p>P02K</p>  <p>CUSTOM KITS with 2 holes single row</p>	<p>P03K</p>  <p>CUSTOM KITS with 3 holes single row</p>	<p>PL .. K</p>  <p>CUSTOM KITS from 5 to 12 holes single row Pages 54 .. 64</p>	<p>PLB .. K</p>  <p>CUSTOM KITS from 4 to 14 holes double row</p>	<p>TLP .. K</p>  <p>CUSTOM KITS from 1 to 5 holes single row</p>

SPARE PARTS AND ACCESSORIES

Page 65

ROTARY GEAR LIMIT SWITCHES

Pages 66 .. 89

Rotary gear limit switches represent a reliable solution as response to different exigencies of precision and durability, they are used to control specific motions in various industrial lifting machinery.

<p>FGR0</p>  <p>Pages 70 .. 74</p>	<p>FGR1</p>  <p>Pages 75 .. 78</p>	<p>FGR2</p>  <p>Pages 79 .. 82</p>	<p>FGR3</p>  <p>Pages 83 .. 85</p>
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SPARE PARTS AND ACCESSORIES

Pages 86 .. 89

POSITION LIMIT SWITCHES

Pages 90 .. 101

Position limit switches are used particularly in industrial and construction lifting plants, in the automation industry, in stage technology, in particular for the control of overhead travelling cranes, jib cranes and machine tools.

<p>FFH</p>  <p>Pages 94 .. 95</p>	<p>FCR</p>  <p>Pages 96 .. 97</p>	<p>FFH2C-1</p>  <p>Pages 98 .. 99</p>	<p>FCP245</p>  <p>Pages 100 .. 101</p>
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SLIP RINGS

Pages 102 .. 103

The slip rings are used in electromechanical devices including rotary tables, carousels for recreational entertainment and in general to feed organs of machinery in circular motion.

SCUDO



Pages 102 .. 103

WARNING HORNS

Pages 104 .. 105

Audible signaling devices.

G



Pages 104 .. 105

PENDANT CONTROL STATIONS

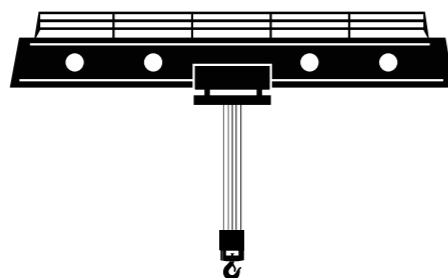
Giovenzana International B.V. has over 65 years of experience in designing and manufacturing pendant control stations and wall-mounted control stations for auxiliary and direct control, used to command and control industrial machinery. They are characterized by an ergonomic user-friendly design, an high protection class degree and high operating reliability and switching capacity. They are suitable in different sizes with a wide range of operating and switching components for various applications.

APPLICATIONS

- **Industrial and construction lifting plants** to control gantry cranes, track cranes, jib cranes, wall-mounted jib cranes, tower cranes and winches for construction sites;
- **Automation industry** to command and control systems to manage machines and processes;
- **Waste disposal industry** to control the movement of machines and equipment.



HOIST



CRANE



TRUCK TAIL LIFT

Safety operating control for handling system

Giovenzana International B.V. pendant control stations and wall-mounted control stations - for universal operation of cranes, hoists and machinery - are available as **complete devices** or in **kit versions** that allows to design a tailor made product, totally customizable for every customers' needs and requirements.

The range includes different configurations (from 2 to 14 push buttons) with spare parts and accessories, such as emergency push buttons, key and lever selector switches, push buttons with laser symbolism, single led lamps. Equipped with contact support, also interlocked, to facilitate wiring.

The components are available with a high degree of protection against weather effects, high mechanical and electrical durability and resistance. All components have to be reliable and safe to ensure good handling control, guarantee maximum operating safety, prevent personal injuries and damage to objects.

The complete range of pendant stations is CE marked. On request our pendant stations - complete devices - could be UL certified for the American market, EAC certified for the Eurasian markets, CCC certified suitable for the Chinese market, to the quality levels required in different countries. All our electrical parts are manufactured in compliance with the Directives and Standards in conformity to global markets' needs.

FEATURES

- Available complete devices (A) or custom kits (B) to be assembled using separated components and common accessories;



- Functions: 1 or 2 speed up, 6 movements, start/alarm push button, emergency stop option available;
- Complies with IEC standards;
- CE, CCC, EAC marked;
- Available with UL/CSA requirements, upon request also in V0 material, UL approved;
- Spring loaded or screw clamp connection.

BENEFITS

› High protection

IP65 Protection class degree

› Standard and customized configuration

Different sizes with wide range of operating and switching components

Tailor made configuration and combination

› Easy use, resistance and durability

Ergonomic user-friendly design in various configurations from 2 to 14 operating elements

› Guaranteed safety

Certified contact elements for auxiliary and direct control

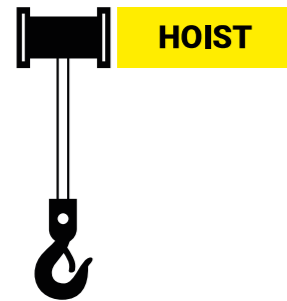
High operating reliability and switching capacity

SERIES



P02

Pendant control station





















Single row pendant control station with two push buttons for small hoist

Features

- Bi-directionality is mechanically interlocked;
- IP65 Double insulation (IEC / EN 60529);
- Laser engraved symbols according to EN 60204-1, FEM 9.941;
- Shock proof and heat resistant;
- Available versions: for single or double speed engines and direct control 1 kW - 1 speed;
- Available with UL/CSA requirements;
- Available upon request also in V0 material, UL approved;
- Available in kit version.

Available codes

Available codes						
P02.RM Single speed						
P02.1 Single speed						
P02.2 Single speed						
P02.4 Single speed						
P02.CD Direct control / Single speed						
P02.D2 Double speed						


Compliance and certifications

- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005)
- EN ISO 13850 (2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 60529 (1991/A1 : 2000/A2 : 2013)
- EN 50581 (2012)
- IEC 63000 (2016)
- 2014/35/UE
- 2011/65/UE
- 2015/863/UE

Technical data

General characteristics		
Compliant to standards		IEC / EN60947-5-1
Material		PP
Material Group		II
Pollution class		3
Temperature	operating storage	-25°C ... +70°C -30°C ... +70°C
Cable entry		rubber cable sleeve Ø 7 ... 18 mm

Electrical characteristics - Contact blocks

Marking		 (For contacts by direct control only CE certification is valid)	
Rated insulation voltage [Ui]		690 V *	
Rated impulse withstand voltage [Uimp]		4 kV *	
Frequency		50/60 Hz *	
Rated thermal current [Ith]		16 A *	
Rated thermal current in enclosure [Ithe]		10 A	
Rated operational current [Ie]			
AC-15 alternate current	type: PL0040..	24 V	16 A *
		60 V	12 A
		120 V	8 A
		240 V	6 A
		400 V	4.5 A
		440 V	3.5 A
		500 V	3 A *
		690 V	1 A
DC-13 direct current	type: PL0040..	24 V	2 A *
		48 V	1.2 A
		60 V	0.85 A
		110 V	0.4 A
		220 V	0.25 A *
Conditional short circuit withstand current		1000 A *	
Fuses rating gG		10 A * - 500 V	
Contact insulation resistance		≤ 25 mΩ	
Switching mechanism	type: PL0040..	slow break double gap contacts	
Positive operation		NC contact blocks - positive opening	
Operating force		4 N	
Electric durability AC-15		1 A	1.5 millions of cycles
		2 A	0.5 millions of cycles
		3 A	0.25 millions of cycles
Terminal type	type: PL0040..	M3.5 screw terminals	
Terminal capacity	type: PL0040..	N° 1 or 2 flexible and solid conductor 1 ... 2.5 mm ²	
Climate resistance	IEC68 part 2-3 IEC68 part 2-30	damp heat, steady state damp heat, cyclic	

UL508 characteristics

Rated insulation voltage [Ui]		10 A - 600 V ac / 2.5 A - 125 V dc
Rated impulse withstand voltage [Uimp]		A600-Q600

* IMQ approved values

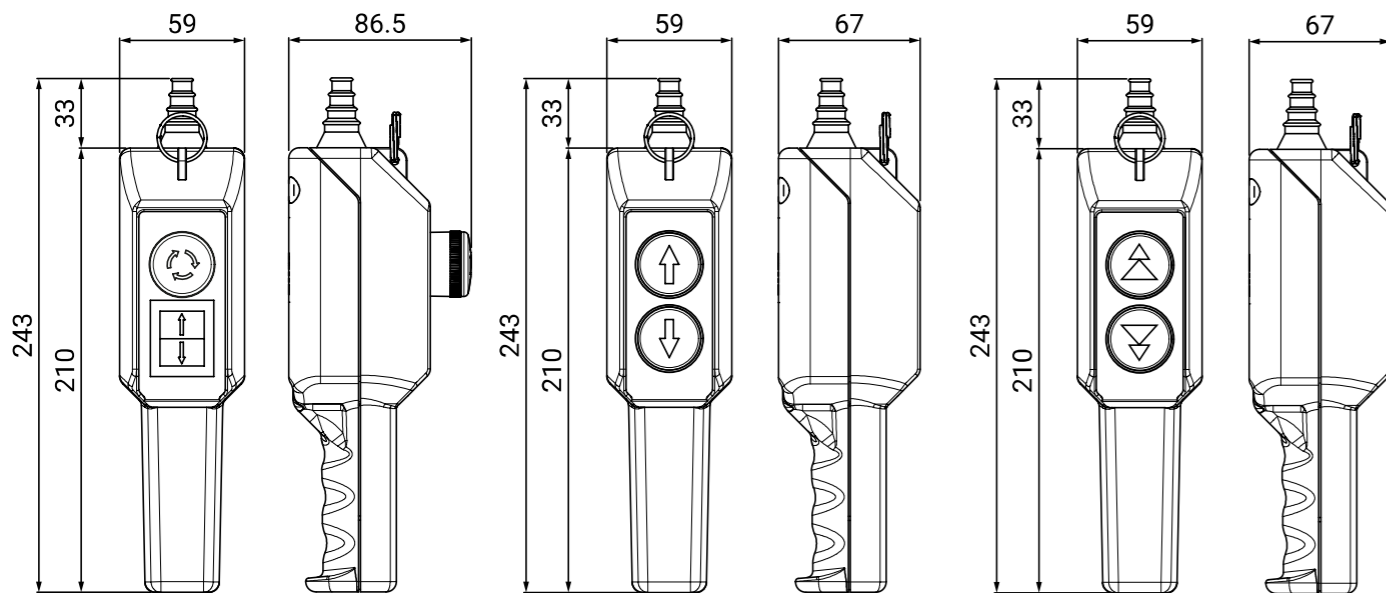
P02

Pendant control station































Available codes



P02.RM	P02.1 P02.2 P02.4 P02.CD	P02.D2
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Standard versions

PRODUCT CODE	FUNCTION	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION
P02.RM	Single speed			 1 NC
				 ON - OFF - ON
P02.1	Single speed			 1 NO
				 1 NO
P02.2	Single speed			 2 NO
				 2 NO
P02.4	Single speed			 1 NC + 1 NO
				 1 NC + 1 NO
P02.CD	Direct control Single speed			 1 NC + 2 NO
				 1 NC + 2 NO
P02.D2	Double speed			 NO + NO
				 NO + NO

CONTACT CODE

Single speed



1 NC

PL004001



1 NO

PL004002



ON
OFF
ON

11708237

Single speed
Direct control



1 NC

PL004001CD



1 NO

PL004002CD

Double speed

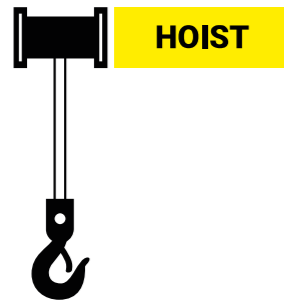


NO + NO

PL004010.S

P03

Pendant control station

























Single row pendant control station with three push buttons for small hoist

Features

- Bi-directionality is mechanically interlocked;
- IP65 Double insulation (IEC / EN 60529);
- Laser engraved symbols according to EN 60204-1, FEM 9.941;
- Shock proof and heat resistant;
- Available versions: for single or double speed motors and direct control 1 kW - 1 speed;
- Available with UL/CSA requirements;
- Available upon request also in V0 material, UL approved;
- Available in kit version.

Available codes

					
P03.1 Single speed					
P03.2 Single speed					
P03.3 Single speed					
P03CD Direct control / Single speed					
P03D2 Double speed					









Compliance and certifications

- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005)
- EN ISO 13850 (2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 60529 (1991/A1 : 2000/A2 : 2013)
- EN 50581 (2012)
- IEC 63000 (2016)
- 2014/35/UE
- 2011/65/UE
- 2015/863/UE

Technical data

General characteristics		
Compliant to standards		IEC / EN60947-5-1
Material		ABS
Material Group		II
Pollution class		3
Temperature	operating storage	-25°C ... +70°C -30°C ... +70°C
Cable entry		rubber cable sleeve Ø 7 ... 18 mm

Electrical characteristics - Contact blocks

Marking		       
		(For contacts by direct control only CE certification is valid)
Rated insulation voltage [Ui]		690 V *
Rated impulse withstand voltage [Uimp]		4 kV *
Frequency		50/60 Hz *
Rated thermal current [Ith]		16 A *
Rated thermal current in enclosure [Ithe]		10 A
Rated operational current [Ie]		
AC-15 alternate current	type: PL0040..	24 V 16 A * 60 V 12 A 120 V 8 A 240 V 6 A 400 V 4.5 A 440 V 3.5 A 500 V 3 A * 690 V 1 A
DC-13 direct current	type: PL0040..	24 V 2 A * 48 V 1.2 A 60 V 0.85 A 110 V 0.4 A 220 V 0.25 A *
Conditional short circuit withstand current		1000 A *
Fuses rating gC		10 A * - 500 V
Contact insulation resistance		≤ 25 mΩ
Switching mechanism	type: PL0040..	slow break double gap contacts
Positive operation		NC contact blocks - positive opening
Operating force		4 N
Electric durability AC-15		1 A 1.5 millions of cycles 2 A 0.5 millions of cycles 3 A 0.25 millions of cycles
Terminal type	type: PL0040..	M3.5 screw terminals
Terminal capacity	type: PL0040..	N° 1 or 2 flexible and solid conductor 1 ... 2.5 mm ²
Climate resistance	IEC68 part 2-3 IEC68 part 2-30	damp heat, steady state damp heat, cyclic

UL508 characteristics

Rated insulation voltage [Ui]		10 A - 600 V ac / 2.5 A - 125 V dc
Rated impulse withstand voltage [Uimp]		A600-Q600

* IMQ approved values



P03

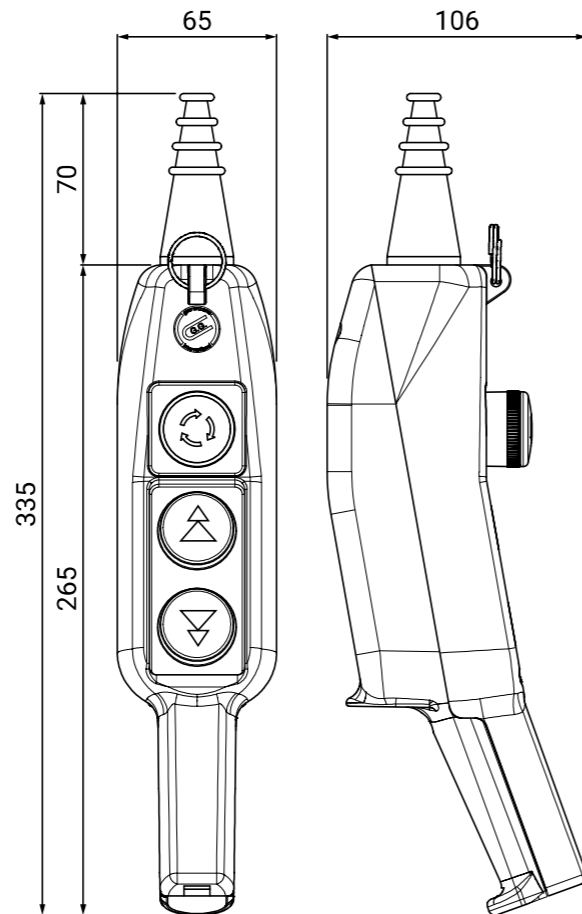
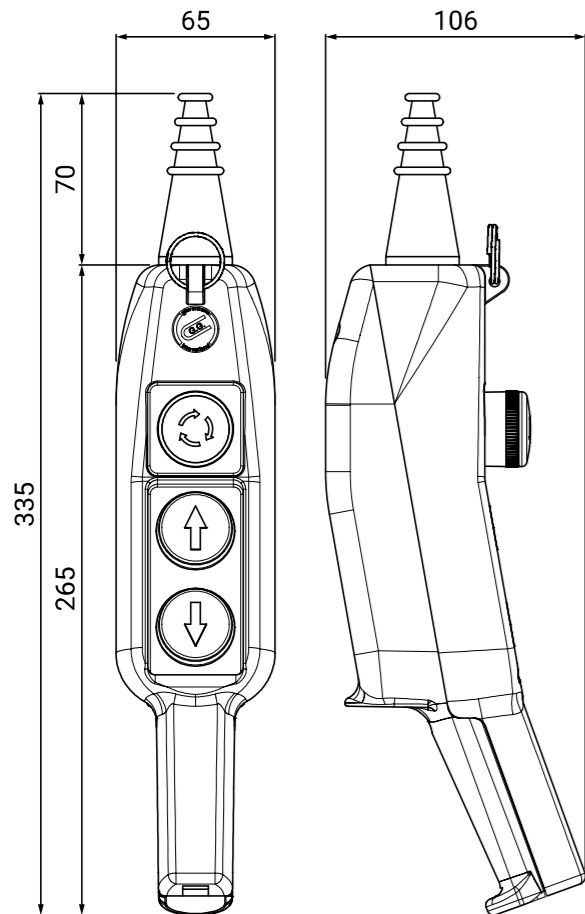
Pendant control station

Available codes



P03.1 (P03.1N - black version)
P03.2
P03.3
P03CD

P03D2



Standard versions

PRODUCT CODE	FUNCTION	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION
P03.1 P03.1N	Single speed			1 NC
				1 NO
				1 NO
P03.2	Single speed			1 NC
				2 NO
				2 NO
P03.3	Single speed			1 NC
				3 NO
				3 NO
P03CD	Direct control Single speed			2 NC + 1 NO
				1 NC + 2 NO
				1 NC + 2 NO
P03D2	Double speed			1 NC
				NO + NO
				NO + NO

CONTACT CODE

Single speed



PL004001



PL004002

Single speed Direct control



PL004001CD



PL004002CD

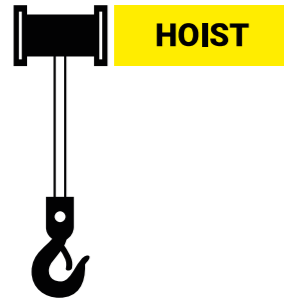
Double speed



PL004010.S

HP03

Pendant control station














Ergonomic pendant control station with three push buttons for hoist

Features

- Bi-directionality is mechanically interlocked;
- IP65 Double insulation (IEC / EN 60529);
- Laser engraved symbols according to EN 60204-1, FEM 9.941;
- Shock proof and heat resistant;
- Available versions: for single or double speed motors;
- Available with UL/CSA requirements.

Available codes

					
HP03 Single speed					
HP03.D2 Double speed					









Compliance and certifications

- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005)
- EN ISO 13850 (2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 60529 (1991/A1 : 2000/A2 : 2013)
- EN 50581 (2012)
- IEC 63000 (2016)
- 2014/35/UE
- 2011/65/UE
- 2015/863/UE

Technical data

General characteristics		
Compliant to standards		IEC / EN60947-5-1
Material		ABS V0
Material Group		II
Pollution class		3
Temperature	operating storage	-25°C ... +70°C -30°C ... +70°C
Cable entry		Spiral cable gland M20

Electrical characteristics - Contact blocks

Marking		       
Rated insulation voltage [Ui]		690 V *
Rated impulse withstand voltage [Uimp]		4 kV *
Frequency		50/60 Hz *
Rated thermal current [Ith]		16 A *
Rated thermal current in enclosure [Ithe]		10 A
Rated operational current [Ie]		
AC-15 alternate current	type: PCW..	24 V 16 A * 60 V 12 A 110 V 5 A 240 V 5 A * 400 V 4 A 440 V 4 A 500 V 4 A * 690 V 2 A
DC-13 direct current	type: PCW..	24 V 2 A 48 V 2 A * 60 V 1 A * 110 V 0.4 A 250 V 0.4 A *
Minimum constant current		1 mA@5Vdc, 1 mA@24Vdc
Conditional short circuit withstand current		1000 A *
Fuses rating gC		10 A * - 500 V
Contact insulation resistance		≤ 25 mΩ
Switching mechanism	type: PCW..	slow break double gap contacts
Positive operation		NC contact blocks - positive opening
Operating force		4 N
Electric durability AC-15		1 A 1.5 millions of cycles 2 A 0.5 millions of cycles 3 A 0.25 millions of cycles
Terminal type	type: PCW..	M3.5 screw terminals
Terminal capacity	type: PCW..	N° 1 or 2 flexible and solid conductor 1 ... 2.5 mm ²
Climate resistance	IEC68 part 2-3 IEC68 part 2-30	damp heat, steady state damp heat, cyclic

UL508 characteristics

Rated insulation voltage [Ui]		10 A - 600 V ac / 2.5 A - 125 V dc
Rated impulse withstand voltage [Uimp]		A600-Q600

* IMQ approved values



Available codes

HP03

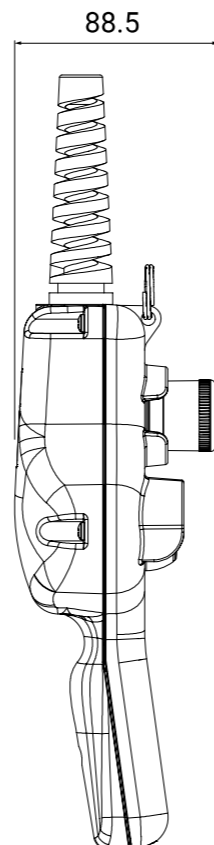
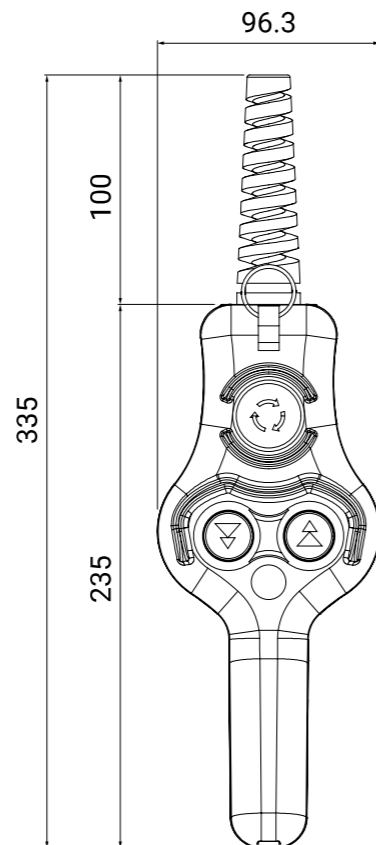
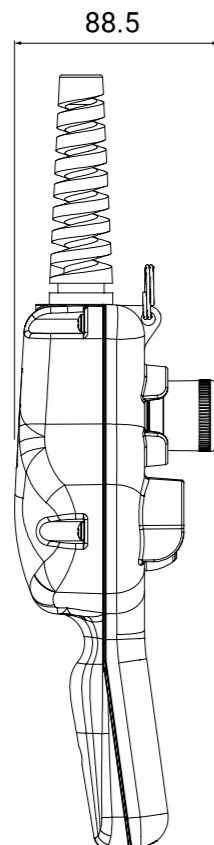
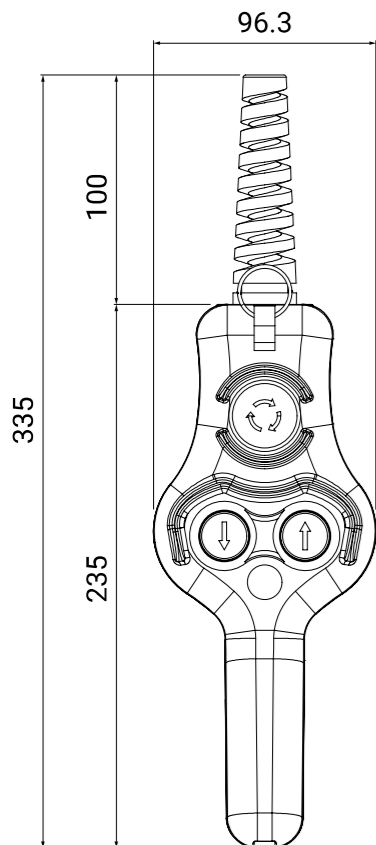
Pendant control station

















HP03



HP03.D2



Standard versions

PRODUCT CODE	FUNCTION	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION
HP03	Single speed			 1 NC
				 1 NO
				 1 NO
HP03.D2	Double speed			 1 NC
				 NO + NO
				 NO + NO

CONTACT CODE

Single speed



PCW01



PCW10

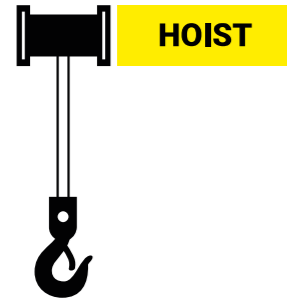
Double speed



PCWDS

HP05

Pendant control station



Ergonomic pendant control station with five push buttons for hoist

Features

- Bi-directionality is mechanically interlocked;
- IP65 Double insulation (IEC / EN 60529);
- Laser engraved symbols according to EN 60204-1, FEM 9.941;
- Shock proof and heat resistant;
- Available versions: for single or double speed motors;
- Available with UL/CSA requirements.

Available codes

Available codes	Red Stop	Down Arrow	Up Arrow	Left Arrow	Right Arrow	Stop	Emergency Stop	Emergency Stop
HP05 Single speed	NC	NO	NO	NO	NO			
HP05.D2 Single/Double speed	NC			NO	NO	NO+NO	NO+NO	
HP05.D4 Double speed	NC					NO+NO	NO+NO	NO+NO

Compliance and certifications


- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005)
- EN ISO 13850 (2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 60529 (1991/A1 : 2000/A2 : 2013)
- EN 50581 (2012)
- IEC 63000 (2016)
- 2014/35/UE
- 2011/65/UE
- 2015/863/UE



Technical data

General characteristics		
Compliant to standards		IEC / EN60947-5-1
Material		ABS V0
Material Group		II
Pollution class		3
Temperature	operating storage	-25°C ... +70°C -30°C ... +70°C
Cable entry		Cable gland M25

Electrical characteristics - Contact blocks

Marking			
Rated insulation voltage [Ui]		690 V *	
Rated impulse withstand voltage [Uimp]		4 kV *	
Frequency		50/60 Hz *	
Rated thermal current [Ith]		16 A *	
Rated thermal current in enclosure [Ithe]		10 A	
Rated operational current [Ie]			
AC-15 alternate current	type: PCW..	24 V	16 A *
		60 V	12 A
		110 V	5 A
		240 V	5 A *
		400 V	4 A
		440 V	4 A
		500 V	4 A *
		690 V	2 A
DC-13 direct current	type: PCW..	24 V	2 A
		48 V	2 A *
		60 V	1 A *
		110 V	0.4 A
		250 V	0.4 A *
Minimum constant current		1 mA@5Vdc, 1 mA@24Vdc	
Conditional short circuit withstand current		1000 A *	
Fuses rating gG		10 A * - 500 V	
Contact insulation resistance		≤ 25 mΩ	
Switching mechanism	type: PCW..	slow break double gap contacts	
Positive operation		NC contact blocks - positive opening	
Operating force		4 N	
Electric durability AC-15		1 A	1.5 millions of cycles
		2 A	0.5 millions of cycles
		3 A	0.25 millions of cycles
Terminal type	type: PCW..	M3.5 screw terminals	
Terminal capacity	type: PCW..	N° 1 or 2 flexible and solid conductor 1 ... 2.5 mm²	
Climate resistance	IEC68 part 2-3 IEC68 part 2-30	damp heat, steady state damp heat, cyclic	

UL508 characteristics

Rated insulation voltage [Ui]		10 A - 600 V ac / 2.5 A - 125 V dc
Rated impulse withstand voltage [Uimp]		A600-Q600

* IMQ approved values

HP05

Pendant control station

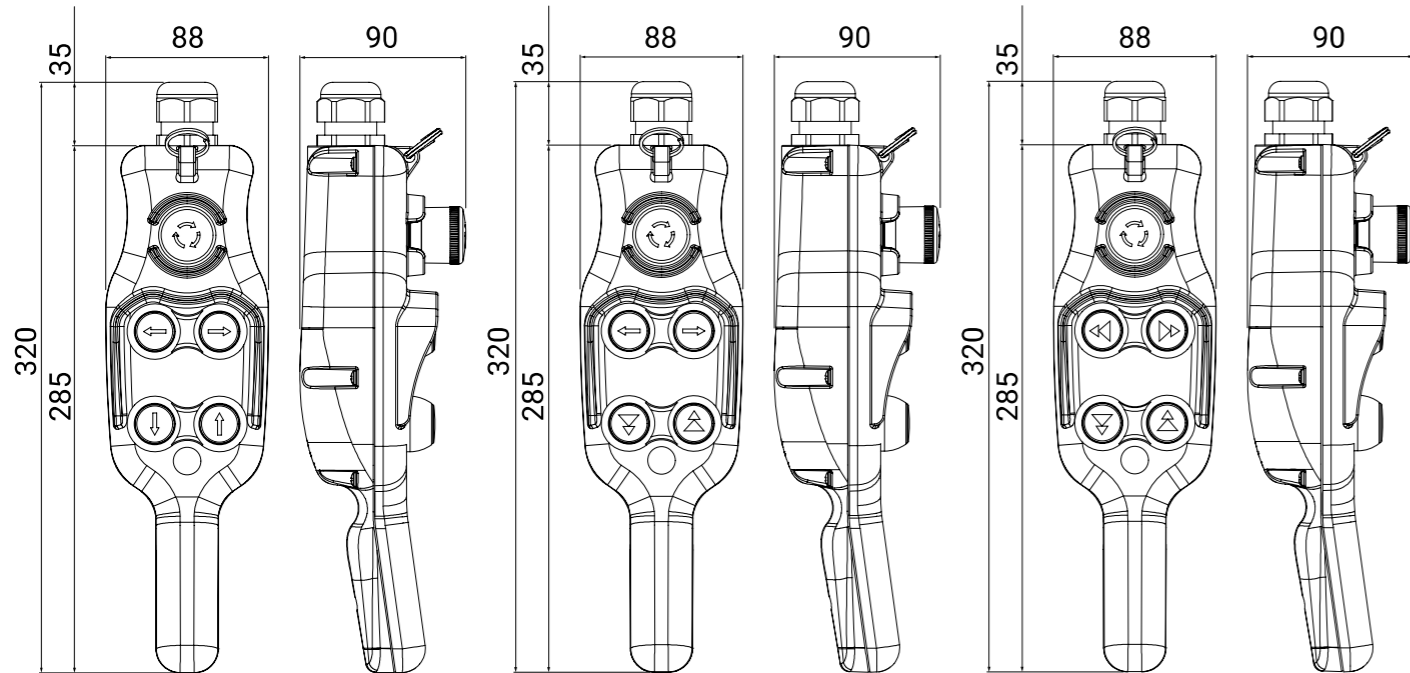
Available codes



HP05

HP05.D2

HP05.D4



Standard versions

PRODUCT CODE	FUNCTION	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION
HP05	Single speed			1 NC
				1 NO
				1 NO
				1 NO
				1 NO
HP05.D2	Single/Double speed			1 NC
				1 NO
				1 NO
				NO + NO
				NO + NO
HP05.D4	Double speed			1 NC
				NO + NO
				NO + NO
				NO + NO
				NO + NO

CONTACT CODE

Single speed



PCW01



PCW10

Double speed



PCWDS

HP07

Pendant control station
















Ergonomic pendant control station with seven push buttons for crane

Features

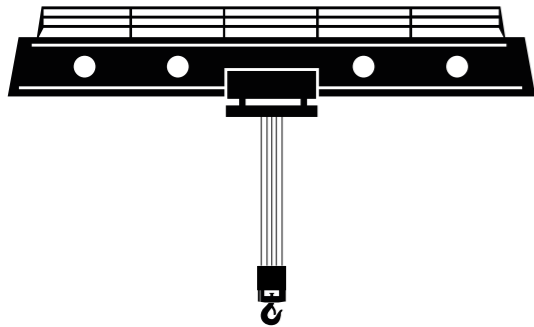
- Bi-directionality is mechanically interlocked;
- IP65 Double insulation (IEC / EN 60529);
- Laser engraved symbols according to EN 60204-1, FEM 9.941;
- Shock proof and heat resistant;
- Available versions: for single or double speed motors;
- Available with UL/CSA requirements.

Available codes

													
HP07 Single speed	NC	NO	NO	NO	NO	NO	NO						
HP07.D2 Single/double speed	NC	NO	NO			NO	NO			NO+NO	NO+NO		
HP07.D4 Single/double speed	NC	NO	NO							NO+NO	NO+NO	NO+NO	NO+NO
HP07.D6 Double speed	NC									NO+NO	NO+NO	NO+NO	NO+NO

Compliance and certifications

- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005)
- EN ISO 13850 (2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 60529 (1991/A1 : 2000/A2 : 2013)
- EN 50581 (2012)
- IEC 63000 (2016)
- 2014/35/UE
- 2011/65/UE
- 2015/863/UE











CRANE



Technical data

General characteristics		
Compliant to standards		IEC / EN60947-5-1
Material		ABS V0
Material Group		II
Pollution class		3
Temperature	operating storage	-25°C ... +70°C -30°C ... +70°C
Cable entry		Cable gland M25

Electrical characteristics - Contact blocks

Marking		       
Rated insulation voltage [Ui]		690 V *
Rated impulse withstand voltage [Uimp]		4 kV *
Frequency		50/60 Hz *
Rated thermal current [Ith]		16 A *
Rated thermal current in enclosure [Ithe]		10 A
Rated operational current [Ie]		
AC-15 alternate current	type: PCW..	24 V 16 A * 60 V 12 A 110 V 5 A 240 V 5 A * 400 V 4 A 440 V 4 A 500 V 4 A * 690 V 2 A
DC-13 direct current	type: PCW..	24 V 2 A 48 V 2 A * 60 V 1 A * 110 V 0.4 A 250 V 0.4 A *
Minimum constant current		1 mA@5Vdc, 1 mA@24Vdc
Conditional short circuit withstand current		1000 A *
Fuses rating gG		10 A * - 500 V
Contact insulation resistance		≤ 25 mΩ
Switching mechanism	type: PCW..	slow break double gap contacts
Positive operation		NC contact blocks - positive opening
Operating force		4 N
Electric durability AC-15		1 A 1.5 millions of cycles 2 A 0.5 millions of cycles 3 A 0.25 millions of cycles
Terminal type	type: PCW..	M3.5 screw terminals
Terminal capacity	type: PCW..	N° 1 or 2 flexible and solid conductor 1 ... 2.5 mm ²
Climate resistance	IEC68 part 2-3 IEC68 part 2-30	damp heat, steady state damp heat, cyclic

UL508 characteristics

Rated insulation voltage [Ui]		10 A - 600 V ac / 2.5 A - 125 V dc
Rated impulse withstand voltage [Uimp]		A600-Q600

* IMQ approved values

Available codes



HP07



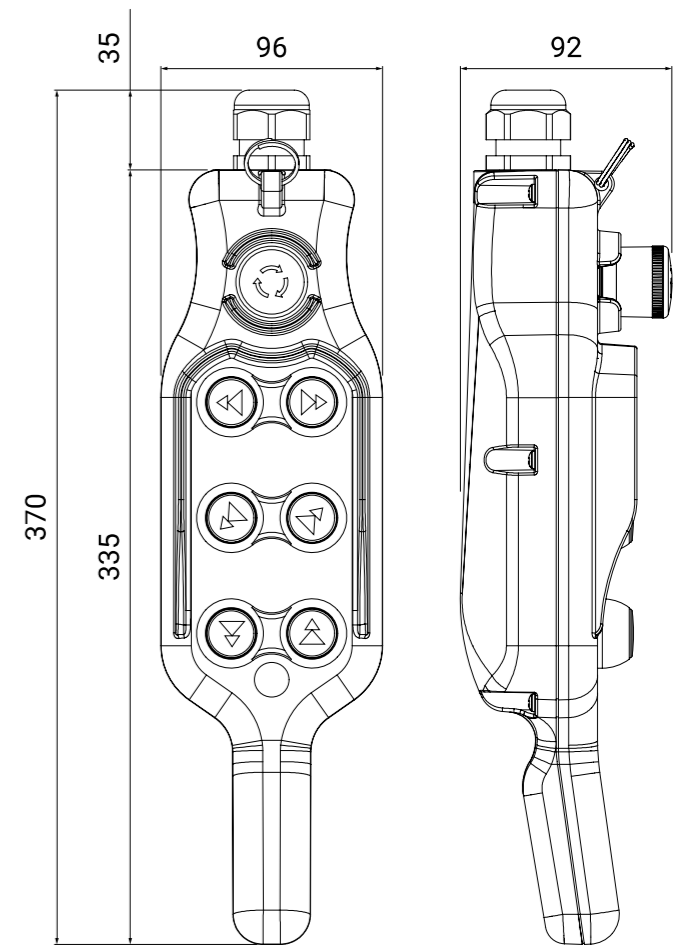
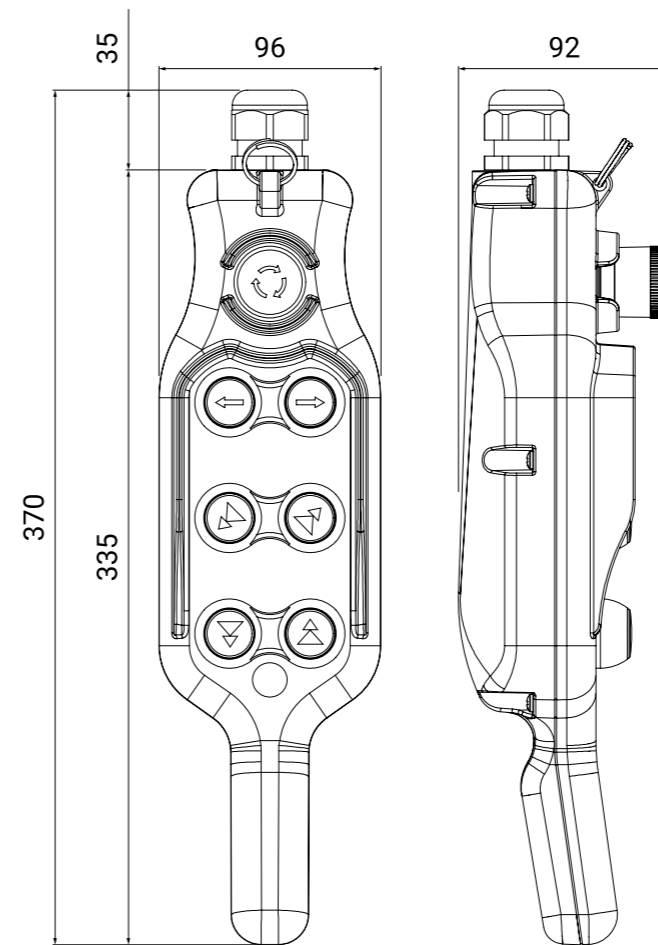
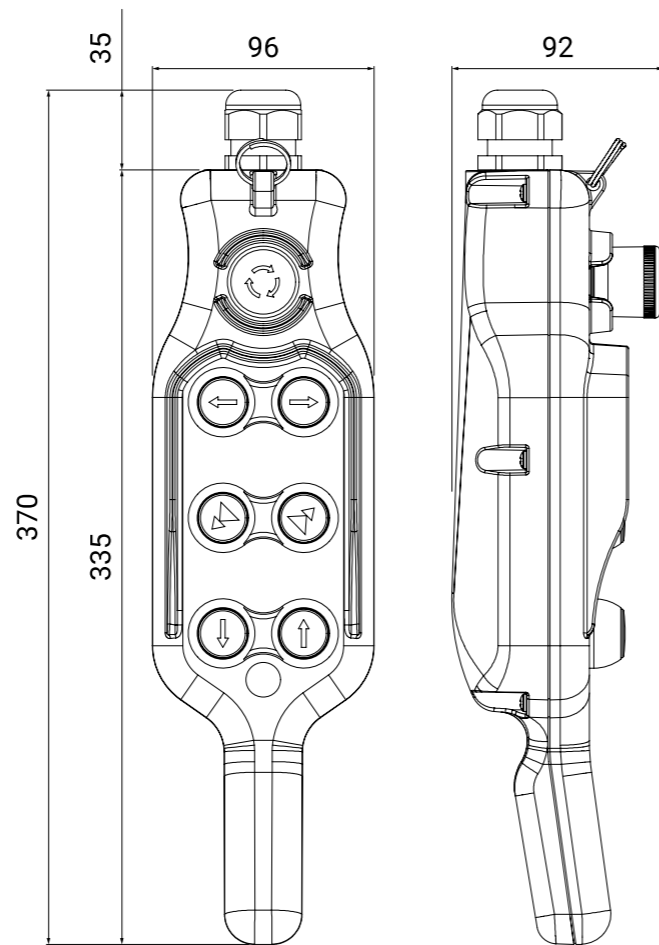
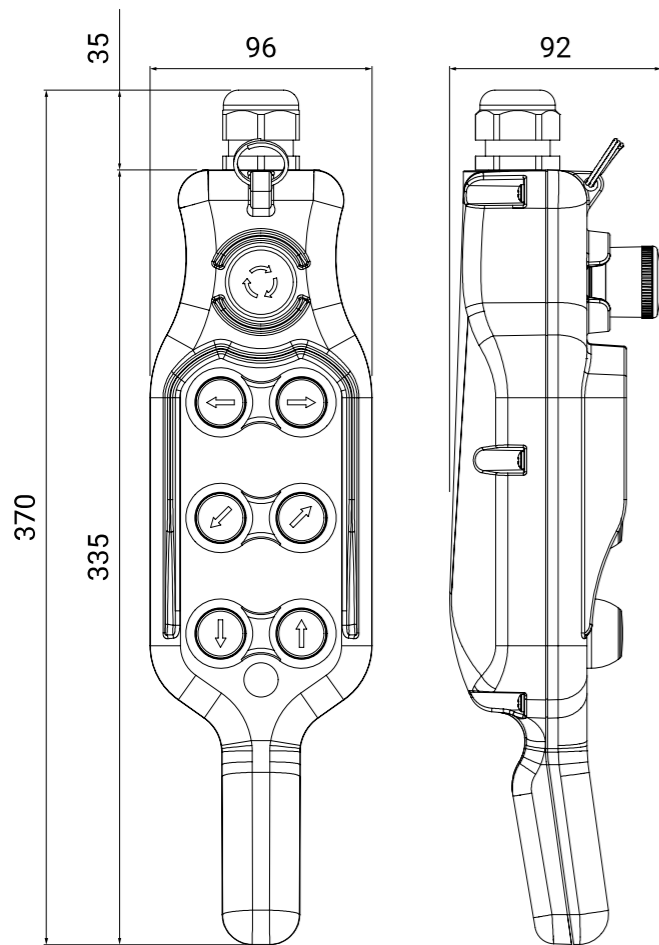
HP07.D2



HP07.D4



HP07.D6

































HP07

Pendant control station































PENDANT STATIONS

Available codes

Standard versions

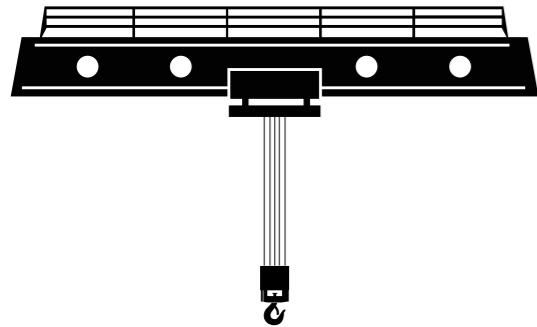
PRODUCT CODE	FUNCTION	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION	CONTACT CODE
HP07	Single speed			 1 NC	<div style="border: 1px solid black; padding: 5px;"> <p>Single speed</p>  1 NC <p>PCW01</p>  1 NO <p>PCW10</p> <p>Double speed</p>  NO + NO <p>PCWDS</p> </div>
				 1 NO	
				 1 NO	
				 1 NO	
				 1 NO	
				 1 NO	
				 1 NO	
			HP07.D2	Single/Double speed	
	 1 NO				
	 1 NO				
	 NO + NO				
	 NO + NO				
	 1 NO				
	 1 NO				

Standard versions

PRODUCT CODE	FUNCTION	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION	CONTACT CODE
HP07.D4	Single/Double speed			 1 NC	<div style="border: 1px solid black; padding: 5px;"> <p>Single speed</p>  1 NC <p>PCW01</p>  1 NO <p>PCW10</p> <p>Double speed</p>  NO + NO <p>PCWDS</p> </div>
				 1 NO	
				 1 NO	
				 NO + NO	
				 NO + NO	
				 NO + NO	
				 NO + NO	
			HP07.D6	Double speed	
	 NO + NO				
	 NO + NO				
	 NO + NO				
	 NO + NO				
	 NO + NO				
	 NO + NO				

HP08

Pendant control station
















CRANE

Ergonomic pendant control station with eight holes for crane

Features

- Bi-directionality is mechanically interlocked;
- IP65 Double insulation (IEC / EN 60529);
- Laser engraved symbols according to EN 60204-1, FEM 9.941;
- Shock proof and heat resistant;
- Available versions: for single or double speed engines;
- Available with UL/CSA requirements.

Available codes

													
HP08 Single speed	NC	NO NO	NO	NO	NO	NO	NO	NO					
HP08.D2 Single/double speed	NC	NO NO	NO	NO			NO	NO			NO+NO	NO+NO	
HP08.D4 Single/double speed	NC	NO NO	NO	NO							NO+NO	NO+NO	NO+NO
HP08.D6 Double speed	NC	NO NO									NO+NO	NO+NO	NO+NO







Compliance and certifications

- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005)
- EN ISO 13850 (2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 50581 (2012)
- IEC 63000 (2016)
- 2014/35/UE
- 2011/65/UE
- 2015/863/UE

Technical data

General characteristics		
Compliant to standards		IEC / EN60947-5-1
Material		ABS V0
Material Group		II
Pollution class		3
Temperature	operating storage	-25°C ... +70°C -30°C ... +70°C
Cable entry		Cable gland M32

Electrical characteristics - Contact blocks

Marking		     
Rated insulation voltage [Ui]		690 V *
Rated impulse withstand voltage [Uimp]		4 kV *
Frequency		50/60 Hz *
Rated thermal current [Ith]		16 A *
Rated thermal current in enclosure [Ithe]		10 A
Rated operational current [Ie]		
AC-15 alternate current	type: PCW..	24 V 16 A * 60 V 12 A 110 V 5 A 240 V 5 A * 400 V 4 A 440 V 4 A 500 V 4 A * 690 V 2 A
DC-13 direct current	type: PCW..	24 V 2 A 48 V 2 A * 60 V 1 A * 110 V 0.4 A 250 V 0.4 A *
Minimum constant current		1 mA@5Vdc, 1 mA@24Vdc
Conditional short circuit withstand current		1000 A *
Fuses rating gC		10 A * - 500 V
Contact insulation resistance		≤ 25 mΩ
Switching mechanism	type: PCW..	slow break double gap contacts
Positive operation		NC contact blocks - positive opening
Operating force		4 N
Electric durability AC-15		1 A 1.5 millions of cycles 2 A 0.5 millions of cycles 3 A 0.25 millions of cycles
Terminal type	type: PCW..	M3.5 screw terminals
Terminal capacity	type: PCW..	N° 1 or 2 flexible and solid conductor 1 ... 2.5 mm²
Climate resistance	IEC68 part 2-3 IEC68 part 2-30	damp heat, steady state damp heat, cyclic

UL508 characteristics

Rated insulation voltage [Ui]		10 A - 600 V ac / 2.5 A - 125 V dc
Rated impulse withstand voltage [Uimp]		A600-Q600

* IMQ approved values



Available codes

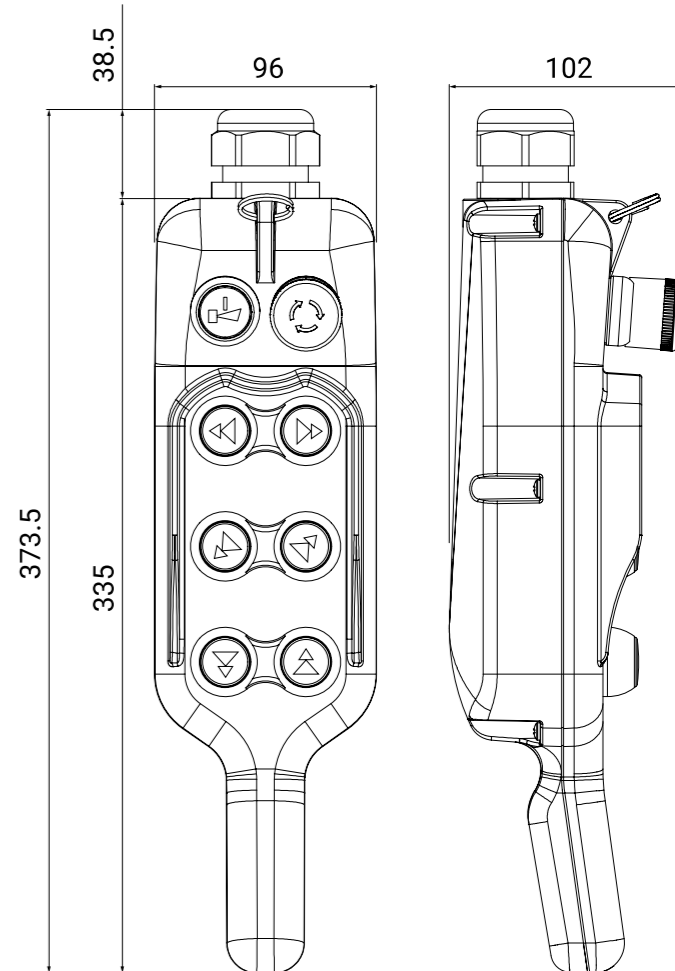
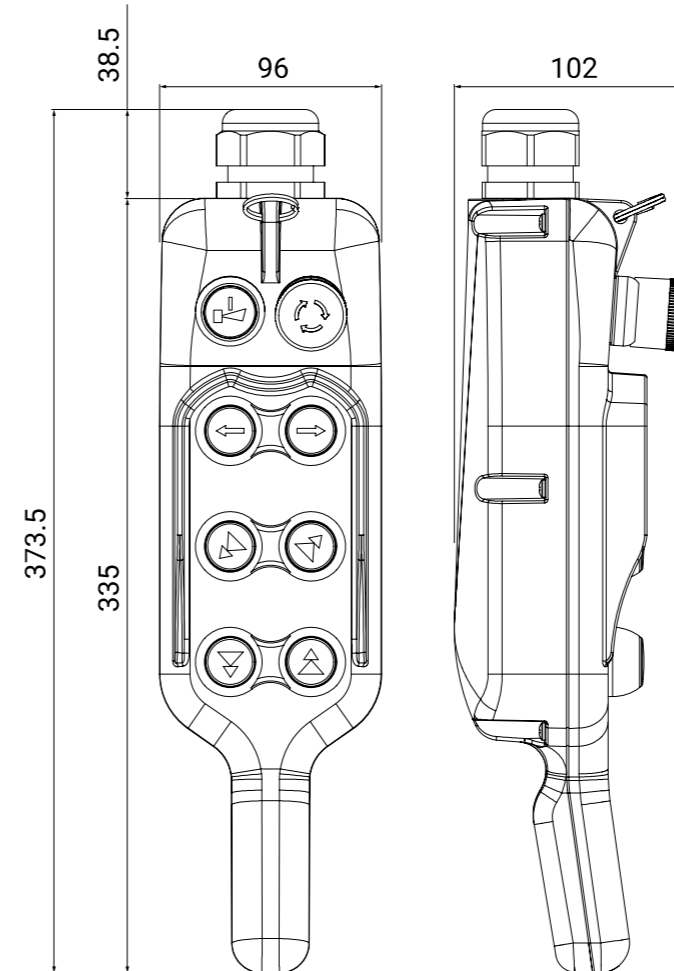
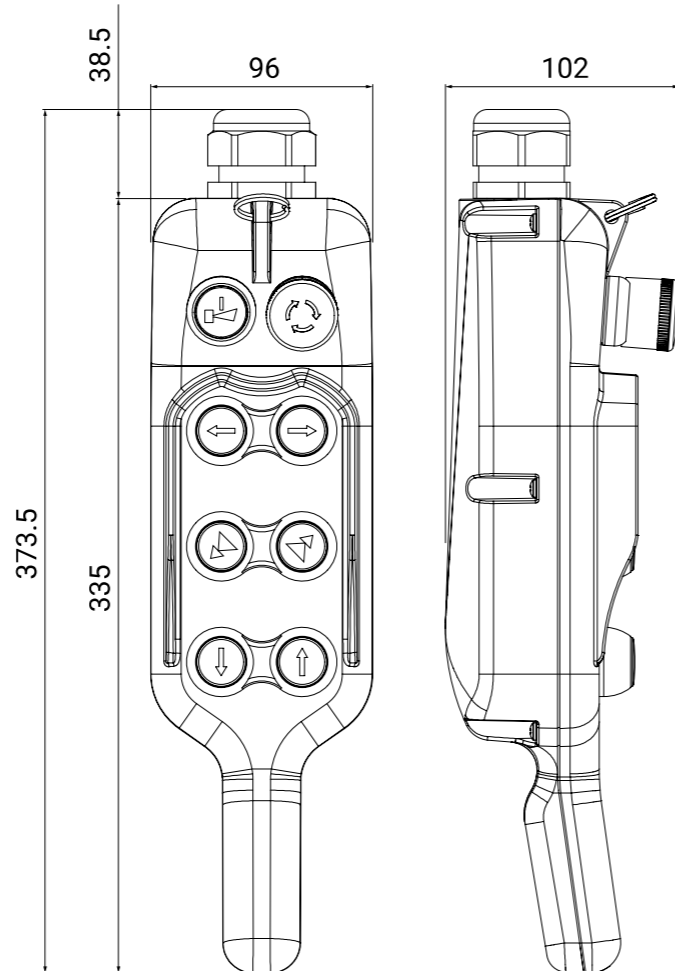
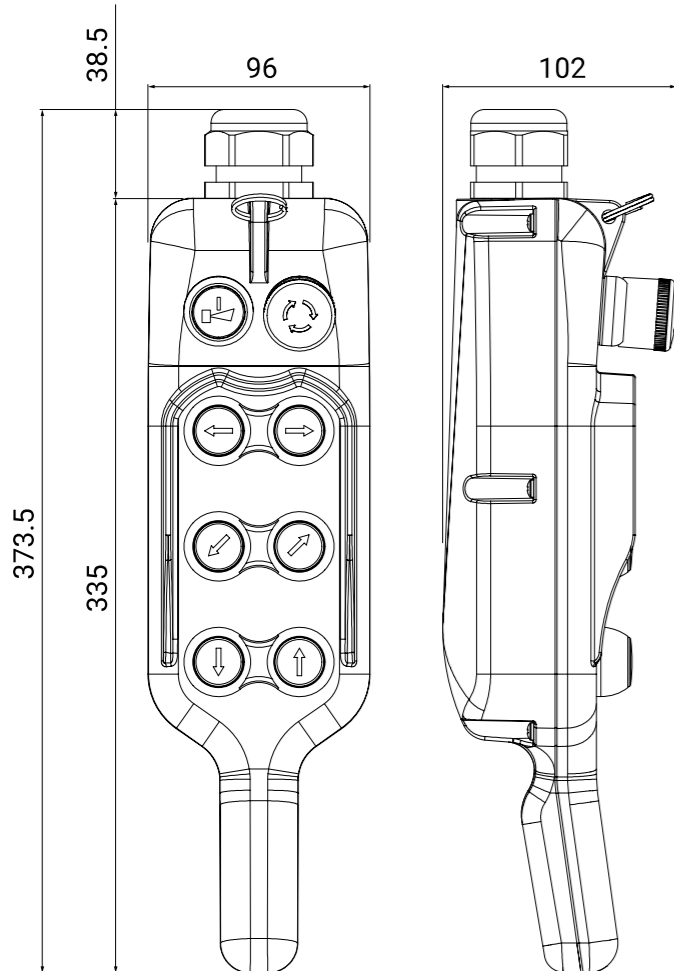


HP08

HP08.D2
































HP08.D4

HP08.D6




































HP08
Pendant control station

Standard versions

PRODUCT CODE	FUNCTION	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION
HP08	Single speed			 2 NO
				 1 NC
				 1 NO
				 1 NO
				 1 NO
				 1 NO
				 1 NO
				 1 NO
			HP08.D2	Single/Double speed
	 1 NC			
	 1 NO			
	 1 NO			
	 NO + NO			
	 NO + NO			
	 1 NO			
	 1 NO			

CONTACT CODE
Single speed
 1 NC
PCW01
 1 NO
PCW10
Double speed
 NO + NO
PCWDS

Standard versions

PRODUCT CODE	FUNCTION	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION
HP08.D4	Single/Double speed			 2 NO
				 1 NC
				 1 NO
				 1 NO
				 NO + NO
				 NO + NO
				 NO + NO
				 NO + NO
			HP08.D6	Double speed
	 1 NC			
	 NO + NO			
	 NO + NO			
	 NO + NO			
	 NO + NO			
	 NO + NO			
	 NO + NO			
	 NO + NO			

CONTACT CODE
Single speed
 1 NC
PCW01
 1 NO
PCW10
Double speed
 NO + NO
PCWDS

TLP

Wall-mounted control station



TRUCK TAIL LIFT

Single row wall-mounted control station from 1 to 4 push buttons for truck tail lift

Features

- Bi-directionality is mechanically interlocked;
- IP65 Double insulation (IEC / EN 60529);
- Laser engraved symbols according to EN 60204-1, FEM 9.941;
- Shock proof and heat resistant;
- Available versions: from 1 to 5 holes;
- Available with UL/CSA requirements;
- Available upon request also in V0 material, UL approved.
- Available in kit version.

Available codes

TLP1.EPP						
TLP1.ESR						
TLP2						
TLP3.B						
TLP3.D						
TLP4.C						
TLP4.E						

Compliance and certifications

- EN 60947-1 (2007/A1 : 2011/A2 : 2014)
- EN 60947-5-1 (2004/A1 : 2009/AC : 2004/AC : 2005)
- EN ISO 13850 (2015)
- EN 60204-1 (2006/A1 : 2009)
- EN-ISO 13849-1 (2015)
- EN ISO 13849-2 (2012)
- EN 60529 (1991/A1 : 2000/A2 : 2013)
- EN 50581 (2012)
- IEC 63000 (2016)
- 2014/35/UE
- 2011/65/UE
- 2015/863/UE

Technical data

General characteristics		
Compliant to standards		IEC / EN60947-5-1
Material		PP (Moplen)
Material Group		II
Pollution class		3
Temperature	operating storage	-25°C ... +70°C -30°C ... +70°C
Cable entry		Cable gland M20

Electrical characteristics - Contact blocks

Marking							
Rated insulation voltage [Ui]		690 V *					
Rated impulse withstand voltage [Uimp]		4 kV *					
Frequency		50/60 Hz *					
Rated thermal current [Ith]		16 A *					
Rated thermal current in enclosure [Ithe]		10 A					
Rated operational current [Ie]							
AC-15 alternate current	type: PCW..	24 V	16 A *	60 V	12 A	110 V	5 A
		240 V	5 A *	400 V	4 A	440 V	4 A
		500 V	4 A *	690 V	2 A		
DC-13 direct current	type: PCW..	24 V	2 A	48 V	2 A *	60 V	1 A *
		110 V	0.4 A	250 V	0.4 A *		
Conditional short circuit withstand current		1000 A *					
Fuses rating gC		10 A * - 500 V					
Contact insulation resistance		≤ 25 mΩ					
Switching mechanism	type: PCW..	slow break double gap contacts					
Positive operation		NC contact blocks - positive opening					
Operating force		4 N					
Electric durability AC-15		1 A	1.5 millions of cycles	2 A	0.5 millions of cycles	3 A	0.25 millions of cycles
Terminal type	type: PCW..	M3.5 screw terminals					
Terminal capacity	type: PCW..	N° 1 or 2 flexible and solid conductor 1 ... 2.5 mm ²					
Climate resistance	IEC68 part 2-3 IEC68 part 2-30	damp heat, steady state damp heat, cyclic					

UL508 characteristics

Rated insulation voltage [Ui]		10 A - 600 V ac / 2.5 A - 125 V dc
Rated impulse withstand voltage [Uimp]		A600-Q600

* IMQ approved values

Available codes



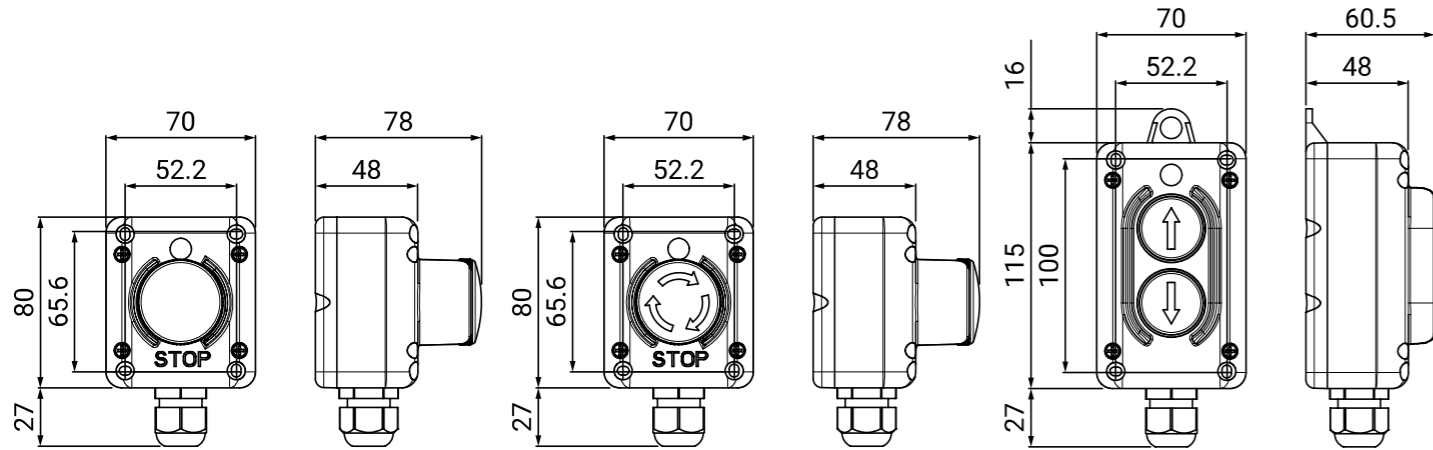
TLP1.EPP



TLP1.ESR



TLP2



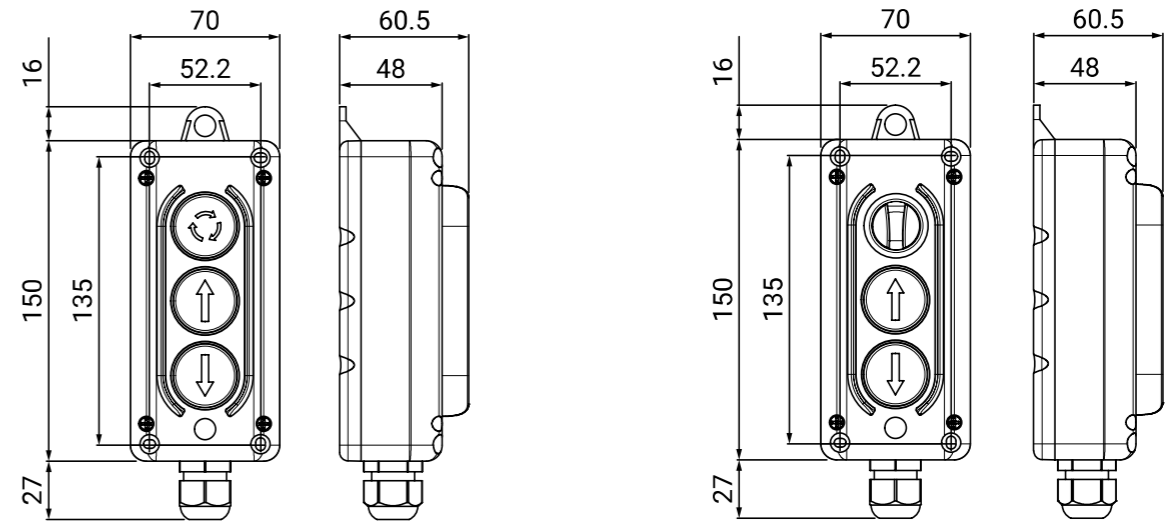
Available codes



TLP3.B



TLP3.D



TLP

Wall-mounted control station

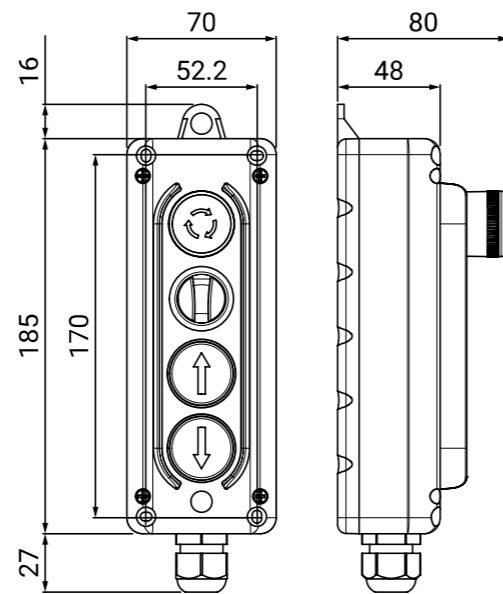
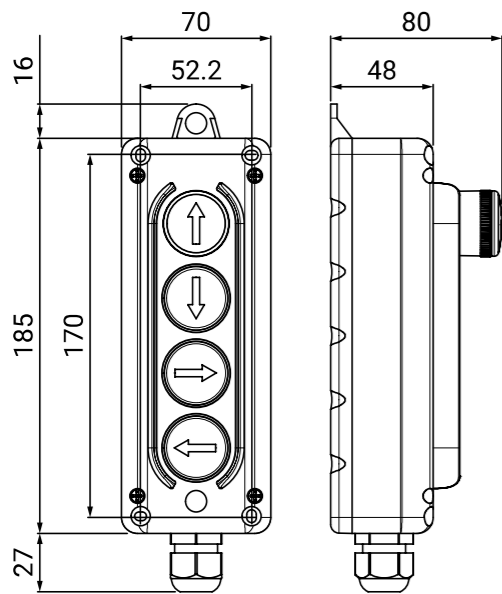
Available codes



TLP4.C



TLP4.E



Standard versions

PRODUCT CODE	LAYOUT	PUSH BUTTON	CONTACT CONFIGURATION	
TLP1.EPP				1 NC
TLP1.ESR				1 NC
TLP2		 		1 NO 1 NO
TLP3.B		 	 	1 NC 1 NO 1 NO
TLP3.D		 	 	1 NO 1 NO 1 NO
TLP4.C		 	 	1 NO 1 NO 1 NO 1 NO
TLP4.E		 	 	1 NC 1 NO 1 NO 1 NO

CONTACT CODE

Single speed	
	1 NC
PCW01	
	1 NO
PCW10	

CUSTOM KITS

Pendant station and wall-mounted control stations

Giovenzana International B.V., leader in the field of handling system, produces a wide range of pendant control stations able to satisfy the most varied requirements. This range of products is also available in **fully custom kits**.

COMPOSE YOUR OWN CUSTOM KIT IN 3 EASY STEPS:

STEP 01

Choose the **pendant station type** as to page 56.



P02K - Single row pendant station with two holes for small hoist + assembly components

P03K - Single row pendant station with three holes for small hoist + assembly components

PL05K - Single row pendant station with five holes for crane + assembly components

PL07K - Single row pendant station with seven holes for crane + assembly components

PL08K - Single row pendant station with eight holes for crane + assembly components

PL10K - Single row pendant station with ten holes for crane + assembly components

PL12K - Single row pendant station with twelve holes for crane + assembly components

PLB04K - Double row pendant station with four holes for crane + assembly components

PLB06K - Double row pendant station with six holes for crane + assembly components

PLB08K - Double row pendant station with eight holes for crane + assembly components

PLB10K - Double row pendant station with ten holes for crane + assembly components

PLB12K - Double row pendant station with twelve holes for crane + assembly components

PLB14K - Double row pendant station with fourteen holes for crane + assembly components

TLP1K - Single row wall-mounted control station with one hole for truck tail lift + assembly components

TLP2K - Single row wall-mounted control station with two holes for truck tail lift + assembly components

TLP3K - Single row wall-mounted control station with three holes for truck tail lift + assembly components

TLP4K - Single row wall-mounted control station with four holes for truck tail lift + assembly components

TLP5K - Single row wall-mounted control station with five holes for truck tail lift + assembly components

STEP 02

Choose the **laser engraved push buttons** between our three series and **additional components** as to page 58.

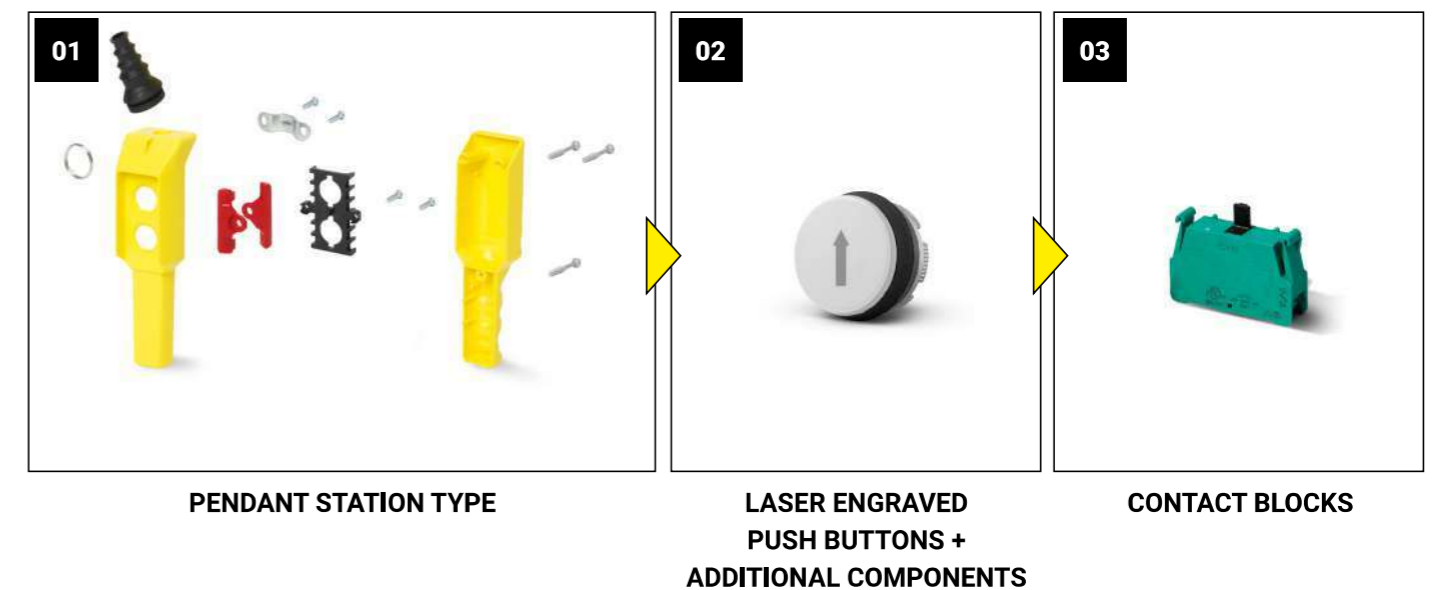


STEP 03

Choose the **contact blocks** as to page 63.



THREE EASY STEPS TO COMPOSE YOUR OWN CUSTOMIZED COMPLETE DEVICE!



CUSTOM KIT

Pendant and wall-mounted

STEP 01

CHOOSE THE PENDANT STATION TYPE

The enclosure kit includes: pendant station base and cover, screws, gasket, cable sleeve and cable clamp, suspension ring, push button interlocks and coupling plates.

The list of detailed components for each type of control station is shown in our instruction manuals downloadable on our website www.giovenzana.com in the dedicated section of the technical documentation.



P02K
2 HOLES

P03K
3 HOLES



PL05K
5 HOLES

PL07K
7 HOLES

PL08K
8 HOLES



PL10K
10 HOLES

PL12K
12 HOLES



PLB04K
4 HOLES

PLB06K
6 HOLES

PLB08K
8 HOLES



PLB10K
10 HOLES

PLB12K
12 HOLES

PLB14K
14 HOLES



TLP1K
1 HOLE

TLP2K
2 HOLES



TLP3K
3 HOLES

TLP4K
4 HOLES

TLP5K
5 HOLES

PILOT LIGHTS

Pair with the contact block with the matching label **B** to page 64.



PLSL1NL

PLSL2NL

PLSL3NL

PLSL4NL

PLSL5NL

EMERGENCY PUSH BUTTONS

Pair with the contact block with the matching label **A** to page 63.



PL013003BL

Mushroom
ø40 push-pull
momentary

PPFN1C4NX

Mushroom
ø40 with
key release

PL013001

Mushroom
ø30 twist to release
with vision

PL013002

Mushroom
ø30 twist
to release

ROTARY SWITCHES Ø22

Pair with the contact block with the matching label **A** to page 63.



PL007001BL

Rotary switch
with operator ø22
0-1 / 90°

PL007002BL

Rotary switch
with operator ø22
1-0-2 / 45°

PL007003BL

Rotary switch
with operator ø22
1>0<2 / 45°

PL006001BL

Rotary switch
with removable
key ø22,
0-1 / 90°

PL006002BL

Rotary switch
with removable
key ø22,
1-0-2 / 45°

PL006004BL

Rotary switch
with removable
key ø22,
1>0<2 / 45°

ADDITIONAL COMPONENTS



PL015001

Hole plug



PCF

Operators' fixing
key

STEP 03

PAIR THE RIGHT CONTACT BLOCKS

CONTACT BLOCKS

- Giovenzana contact blocks offer the flexibility to operate multiple control circuits from a single pilot device.
- They are color coded for instant circuit identification to minimize wiring errors and to expedite the wiring process.
- The customers can combine contact block types to achieve his needed function.

The last step to complete your custom kit is to choose the right contact block.

Identify the type of contact to be associated to the selected operators following the indications.

SINGLE SPEED CONTACT BLOCKS

Pair with the laser engraved push buttons with the matching label **A** from page 59 to 61.



PL004001

For P02 / P03 / PL.. / PLB.. series

PL004002

PL004001CD

For P02 / P03 series

PL004002CD

PCW01

For HP.. / TLP.. series

PCW10

CODE	DESCRIPTION	DESIGNATION	FUNCTION	SIZES
PL004001	NC contact block Screw terminals Single speed	1 — NC — 2	0 1,5 6 mm	
PL004002	NO contact block Screw terminals Single speed	3 — NO — 4	0 3,5 6 mm	
PL004001CD	NC - Screw terminals Single speed Direct Control	1 — NC — 2	0 1,5 6 mm	
PL004002CD	NO - Screw terminals Single speed Direct Control	3 — NO — 4	0 3,5 6 mm	
PCW01	NC - Spring loaded terminals Single speed	1 — NC — 2	0 1,5 6 mm	
PCW10	NO - Spring loaded terminals Single speed	3 — NO — 4	0 3,5 6 mm	

DOUBLE SPEED CONTACT BLOCKS

Pair with the laser engraved push buttons with the matching label **C** from page 59 to 61.



PL004010.S

Double step contact block
NO + NO


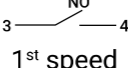
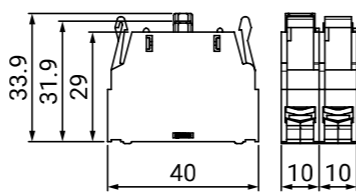

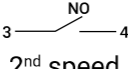

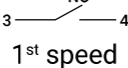
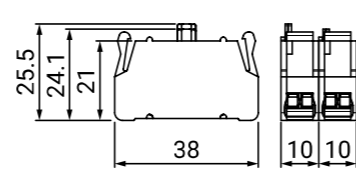

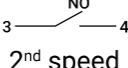


PCWDS

Double step contact block
NO + NO

For P02 / P03 / PL / PLB / PLN / PLBN series

For HP / TLP series

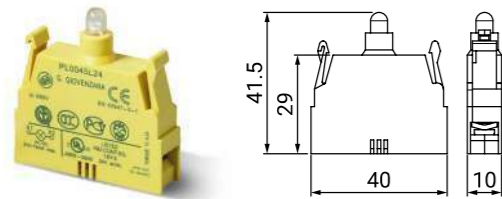
CODE	DESCRIPTION	DESIGNATION	SIZES
PL004010.S	 NO contact block Screw terminals High plunger	 1 st speed	
	 NO contact block Screw terminals Low plunger	 2 nd speed	
PCWDS	 NO contact block Spring loaded terminals High plunger	 1 st speed	
	 NO contact block Spring loaded terminals Low plunger	 2 nd speed	

LAMPHOLDER WITH BUILT-IN LED

Pair with the pilot lights with the matching label **B** to page 62.

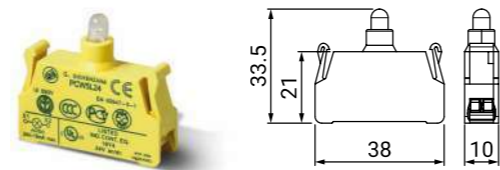
For P02 / P03 / PL.. / PLB.. series

For HP. / TLP. series



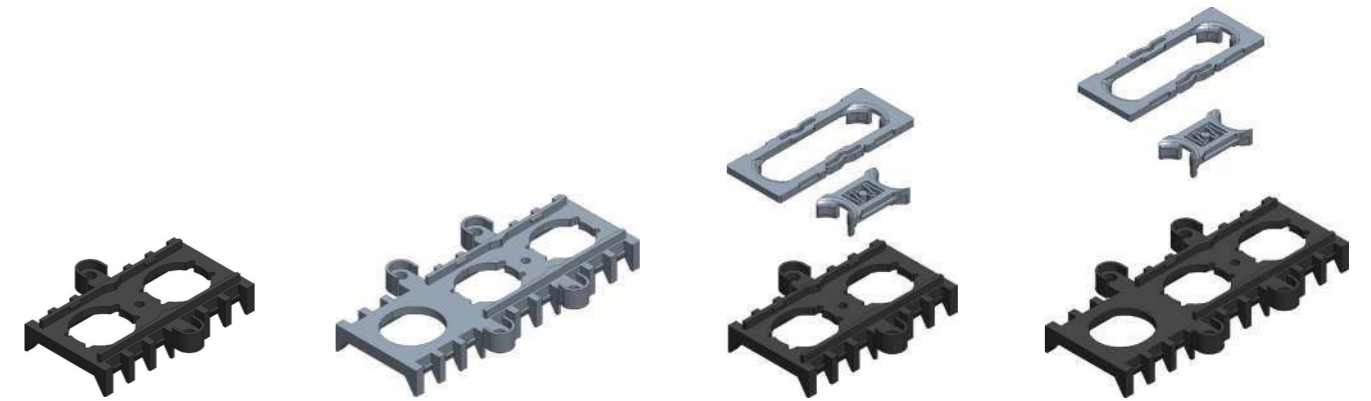
- PL0045L12 AC/DC 12 V
- PL0045L24 AC/DC 24 V
- PL0045L48 AC/DC 48 V
- PL0045L110 AC/DC 110 V
- PL0045L220 AC/DC 220 V

DESIGNATION
X1 — ⊗ — X2



- PCW5L12 AC/DC 12 V
- PCW5L24 AC/DC 24 V
- PCW5L48 AC/DC 48 V
- PCW5L110 AC/DC 110 V
- PCW5L220 AC/DC 220 V

DESIGNATION
X1 — ⊗ — X2



PL003011

Coupling plate 2 holes
for 6 contact blocks

PL003012

Coupling plate 3 holes
for 9 contact blocks

20100242

Locking support 2 holes
for 6 contact blocks

20100243

Locking support 3 holes
for 9 contact blocks



12906011

P02 series
cable gland Ø 7 .. 14



12906006

P03 / PL .. 05 series
cable gland Ø 7 .. 18



12906004

PL .. 07 > PL .. 12 series
PLB .. 04 > PLB .. 06 series
cable gland Ø 9 .. 21



12906005

PLB .. 08 > PLB .. 14 series
cable gland Ø 12 .. 24



12901054

HP03 / TLP. series
spiral cable gland M20 x 1.5



PL012001

Cable clamp
lever



16000061

Wall bracket
1 .. 3 holes



16000062

Wall bracket
4 .. 5 holes