HERCULES-PK

Joystick station



FEATURES

- · Designed for Hercules joysticks.
- Carry-on straps and aluminum handles ensure greater ease of use.
- The emergency stop mushroom pushbutton complies with standard ISO 13850 and it is positioned in the middle for intuitive operation in case of danger.
- Mechanical life of switches: 1 million operations.
- IP protection degree: Hercules-PK is classified min. IP43 max. IP65, depending on the joystick.
- Extreme temperature resistance: -25°C to +70°C.
- All materials and components used are wear resistant and guarantee protection of the unit against water and dust.

OPTIONS

- Wide range of actuators: pushbuttons, selector switches and key-selector switches, pilot lights.
- Single switches with NO or NC contacts and double switches with NO contacts, one or two speeds, with electrical interlock to prevent simultaneous operation of opposite functions.
- Available with customized labels and enclosures with different holes.

CERTIFICATIONS

• CE and UKCA markings and EAC certification.

Fill in the "request form" for accurate product configuration.

CERTIFICATIONS

Conformative to Community Dispatives	2014/35/UE Low Voltage Directive
Conformity to Community Directives	2006/42/CE Machinery Directive
	EN 60204-1 Safety of machinery - Electrical equipment of machines
	EN 60947-1 Low-voltage switchgear and controlgear
Conformity to CE Standards	EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices
	EN 60529 Degrees of protection provided by enclosures
	ISO 13850 Safety of machinery - Emergency stop - Principles for design
Markings and homologations	C € FRE LE

GENERAL TECHNICAL SPECIFICATIONS

	Storage -40°C/+70°C
Ambient temperature	Operational -25°C/+70°C
Grado di protezione IP	Min. IP 43 - max. IP 65 depending on the joystick
Insulation category	Class II
Cable entry	Cable sleeve (Ø 14÷26 mm)
Operating positions	Any position

TECHNICAL SPECIFICATIONS OF THE SWITCHES

Code	PRSL1000PI	PRSL1001PI			
Utilisation category	A	AC 15			
Rated operational current	3	3 A			
Rated operational voltage	250) Vac			
Rated thermal current	1	0 A			
Rated insulation voltage	500) Vac			
Mechanical life	1x10 ⁶ o	1x10 ⁶ operations			
Connections	Screw-typ	Screw-type terminals			
Wires	1x2.5 mm², 2x1.5 mm² (UL - (c)UL: use 60°C or	1x2.5 mm ² , 2x1.5 mm ² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)			
Tightening torque	0.6	0.6 Nm			
Switch type	Double break, slow action	Double break, slow action			
Contacts	1NO	1NC			
Scheme	[\]	11 [7 12			
Markings and homologations	((ω, ψ) , ,	C € c@us ĽK EAI			



Code	PRSL1002PI	PRSL1002PI PRSL1003PI			
Utilisation category	AC	AC 15			
Rated operational current	3	3 A			
Rated operational voltage	250	Vac			
Rated thermal current	10) A			
Rated insulation voltage	500	Vac			
Mechanical life	1x10 ⁶ op	1x10 ⁶ operations			
Connections	Screw-type terminals				
Wires	1x2.5 mm², 2x1.5 mm² (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 16-18 AWG)				
Tightening torque	0.6	0.6 Nm			
Switch type	Double switch, 1 speed	Double switch, 2 speeds			
Contacts	2NO+common	3NO+common			
Scheme	13 4 23	13 4 33 23			
Markings and homologations	Ç€ c@us	발 INI			

TECHNICAL SPECIFICATIONS OF THE LAMP HOLDERS

Code	PRSL1004PI	
Maximum voltage	125 V	
Maximum power	2.6 W	
Lamp type (not supplied)	T5.5K 22 mm	
Connections	Screw-type terminals	
Wires	1x2.5 mm², 2x1.5 mm²	
Tightening torque	0.6 Nm	
Markings and homologations	CE UK	

TECHNICAL SPECIFICATIONS OF THE SWITCHES (HERCULES-S JOYSTICK)

Code	PRVV0804PE	
Utilisation category	AC 15	
Operating electrical usages	Inductive load 48 Vac/1 A 125 Vac/1 A 250 Vac/0.5 A 30 Vdc/1 A	
	Resistive load 48 Vac/2 A 125 Vac/3 A 250 Vac/2 A 30 Vdc/3 A	
Rated thermal current	8 A	
Rated insulation voltage	1000 Vac	
Mechanical life	5x10 ⁶ operations	
Connections	Screw-type terminals	
Wires	0.2 mm ² - 2.5 mm ²	
Tightening torque	0.5 Nm - 0.6 Nm	
Switch type	Single break	
Contacts	1NC	
Scheme	11 E 7 12	
Markings and homologations	(E	

TECHNICAL SPECIFICATIONS OF THE SWITCHES (HERCULES-CK JOYSTICK)

Code	PRSL0190XX	PRSL0191XX	PRSL1000PI	PRSL1001PI
Use	Hercules-CK "Dead – man" safety device			
Utilisation category	AC 15			
Rated operational current		3	A	
Rated operational voltage		250	Vac	
Rated thermal current		10) A	
Rated insulation voltage	300	Vac	500	Vac
Connections	Screw-type terminals			
Wires	(UL - (c)UL: use 60°C or 75	m²-2x1.5 mm²-1x2.5 mm² 0°C or 75°C copper (CU) conductor (UL - (c)UL: use 60°C or 75°C copper (CU) conductor and wire 14-22 AWG)		5°C copper (CU) conductor
Tightening torque	0.5 Nm 0.6 Nm			Nm
Switch type	Double break, slow action			
Contacts	1NC -	+ 1NC	1NO	1NC
Scheme	E	11 21 		£ 7
Markings and homologations	CE	€ ĽÁ C€ Œ, ĽÁ EHI		KR EHL



TECHNICAL SPECIFICATIONS OF THE PUSHBUTTONS (HERCULES JOYSTICK)

Code	PRVV5019PE	PRVV5020PE	PRVV5080PE
Colour	Green Black		Green
Contact rated current	Resistive load Resistive load Resistive load 1	Resistive load 28 Vdc/5 A Resistive load 125 Vac/125 mA	
Contact resistance	50	-	
Mechanical life	1x10 ⁶ op	1x10 ⁶ operations	
Contacts	11	1NO	
Markings and homologations	C	C€	

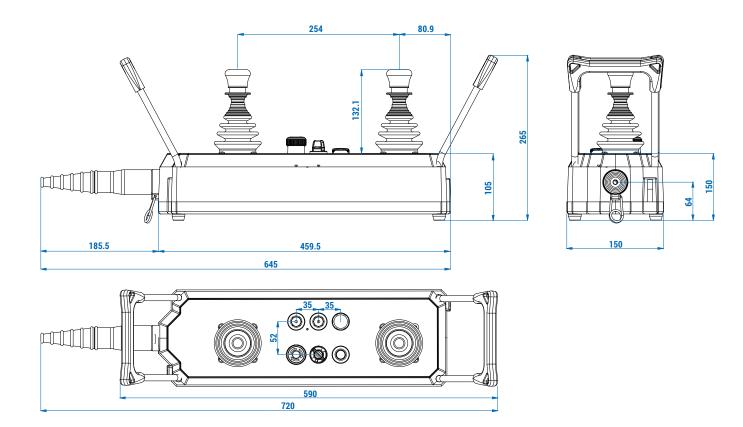
TECHNICAL SPECIFICATIONS OF THE POTENTIOMETERS (HERCULES JOYSTICK)

Code	PRVV9020PE	PRVV9025PE	PRVV9035PE	
Ohmic value	4.7 kΩ	10 kΩ	2.2 kΩ	
Indipendent linearity (ref. AEA -3°)		±0.25%		
Life time		3x10 ⁶ movements		
Operational ambient temperature	-55°C/+125°C			
Mechanical angle	360° continuous			
Actual Electrical Angle (AEA)	355°±5°			
Ohmic value tolerance	_	±5%		
Temperature drift	< 50 PPM/°C			
Power rating	Max. 4 W			

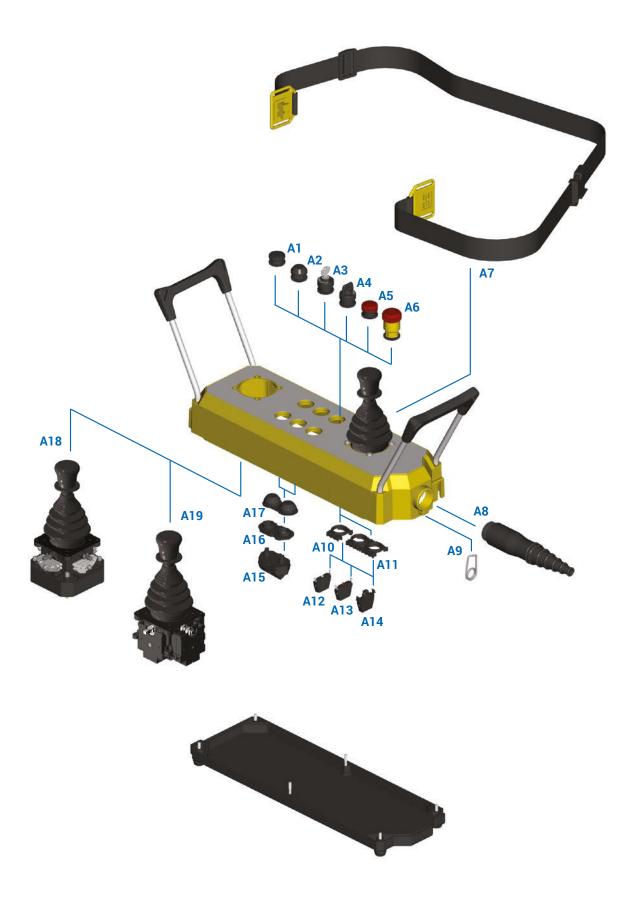
TECHNICAL SPECIFICATIONS OF THE ANALOG ENCODERS EGON 36-AL (HERCULES JOYSTICK)

Power supply	1230 Vdc
	Current 420 mA
Analog output	Voltage 15 V
	Voltage 210 V
Oursemation	35 mA simple version
Consumption	55 mA redundant version
Single-turn resolution	12 bit (4096 points for revolution)
Protection against input/output over-current	Yes
Protection against input/output over-voltage	Yes
Accuracy	± 0.5%
Linearity	± 0.25%
Redundancy	2 complementary outputs (analogue)

OVERALL DIMENSIONS (mm)



ASSEMBLY DRAWING



COMPONENTS

Switches

Ref.	Drawing	Description	Scheme	Code
A12		1NO switch	E\(\frac{13}{14}\)	PRSL1000PI
A13	G	1NC switch	E	PRSL1001PI
A14		Lamp holder (without bulb)	-	PRSL1004PI
A15	4	Double switch, 1 speed, 2NO+common	13 4 23	PRSL1002PI
A15		Double switch, 2 speeds, 3NO+common	13 4 33 23	PRSL1003PI

Actuators

Ref.	Drawing	Description	Code
A1		Blanking plug	PRSL1023PI
A2	90	Single pushbutton	PRTS000001
A16		Holding plate for double pushbutton	PRSL8737PI
A17		Double pushbutton with rubber	PRTD000001

Pilot lights

Ref.	Drawing	Colour	Code
A5		Red	PRSL1012PI
		Yellow	PRSL1013PI
		Green	PRSL1014PI

Selector switches

Ref.	Drawing	Positions	Spring return	Maintained positions	Pull-out position	Code
4.0		0/1		Χ	0	PRSL1046PI
A3		0/1	Χ		0	PRSL1024PI
	2 000	0/1	Χ			PRSL1040PI
		0/1		Χ		PRSL1029PI
A4		1/0/2	Χ			PRSL1026PI
		1/0/2		Χ		PRSL1027PI



Mushroom pushbuttons

Ref.	Drawing	Description	Code
A6		Latched mushroom pushbutton for emergency stop	PRSL1009PI

Joysticks

Ref.	Drawing	Description	Code
A18		Hercules-S joystick	F66 Refer to joystick Hercules documentation
A19		Hercules-CK joystick	F66 Refer to joystick Hercules documentation

Accessories

Ref.	Drawing	Description	Code
A7		Shoulder strap	PRSL0161PE
A8		Cable sleeve	PRSL0145PE
A9	8	Hook	PRGA0001PE
A10	•	Holding plate for 3 switches	PRSL8739PI
A11		Holding plate for 3+3 switches	PRSL8736PI

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HERCULES-PK - REQUEST FORM FOR JOYSTICK STATION

