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POSITION LIMIT SWITCHES

Position limit switches are designed to control the movement of overhead travelling cranes, hoists and machine tools. They operate as auxiliary controllers of electrical motors through power interfaces, such as contactors or PLCs.

FEATURES

The limit switches are equipped with 1NO+1NC snap or slow action switches. All switches are of the positive opening type, thus suitable for safety functions.

MATERIALS

The limit switches have die-cast aluminium enclosures and thermoplastic material heads (nylon reinforced with fiberglass). Materials and components ensure high resistance and endurance and protect the equipment against water and dust



INDUSTRIAL
LIFTING



CONSTRUCTION
LIFTING



INDUSTRIAL
AUTOMATION



STAGE
TECHNOLOGY

STANDARDS - MARKINGS - HOMOLOGATIONS

- Conformity to Community Directives:
 - 2006/95/CE: Low Voltage Directive
 - 2006/42/CE: Machinery Directive
- Conformity to Standards:
 - EN 60204-1 Safety of machinery - Electrical equipment of machines

- EN 60947-1 Low-voltage switchgear and controlgear
- 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
- Markings and homologations: **CE**

GENERAL TECHNICAL SPECIFICATIONS

- Storage ambient temperature: -40°C/+70°C
- Operational ambient temperature: -25°C/+70°C
- Protection degree: IP66 max. with dedicated cable clamp M20
- Insulation category: Class I
- Cable entry: cable clamp M20
- Operating position: Any position
- Operation frequency: 3600 operations/hour max
- Markings and homologations: **CE EAC**

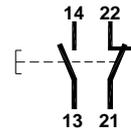
TECHNICAL SPECIFICATIONS OF THE MICROSWITCHES

- Utilisation category: AC 15
- Rated operational current: 3 A
- Rated operational voltage: 250 V
- Rated thermal current: 10 A
- Rated insulation voltage: 300 V~
- Mechanical life: 1x10⁶ operations
- Terminal referencing: according to EN 50013
- Connections: screw-type terminals
- Wires: 1x2.5 mm², 2x1.5 mm²
- Tightening torque: 0.8 Nm
- Markings and homologations: **CE**

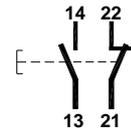
The snap action single switch PRSL0025XX has 1 NO + 1 NC change over contacts with 2 connecting terminals each.

The slow action single switch PRSL0031XX has 1 NO + 1 NC change over contacts with 2 connecting terminals each.

All NC contacts are of the positive opening operation type. The switches have the following reference for internal wiring.

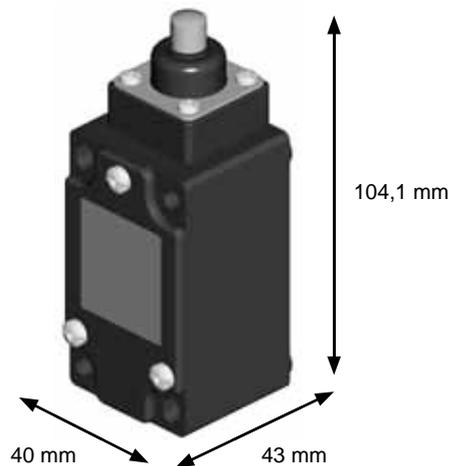


PRSL0025XX



PRSL0031XX

OVERALL DIMENSIONS



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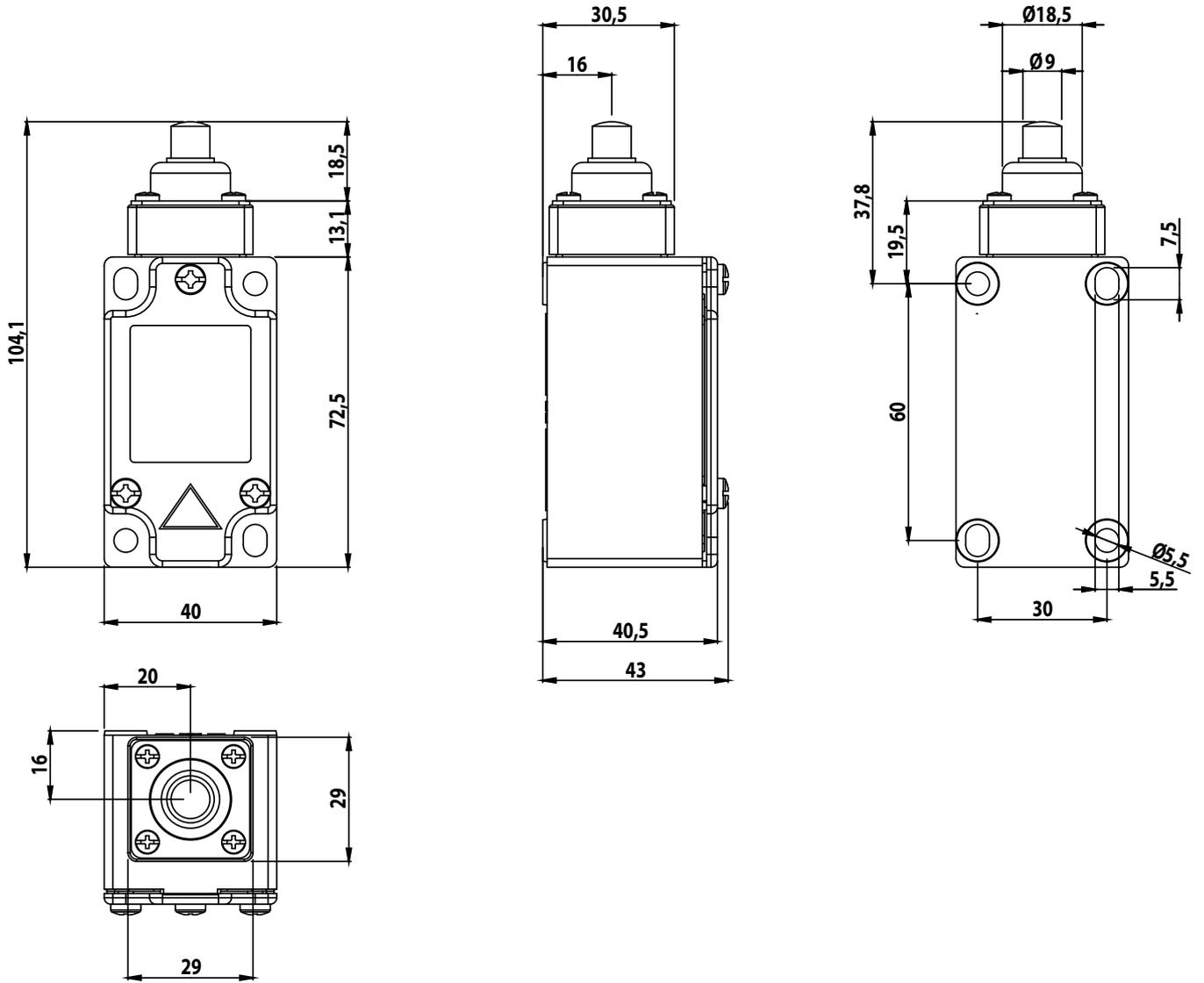


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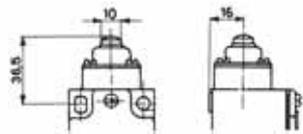
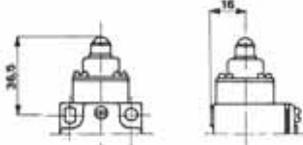
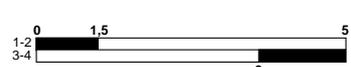
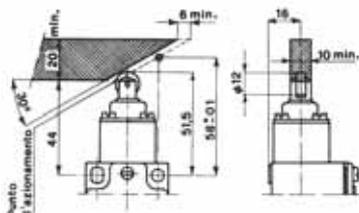
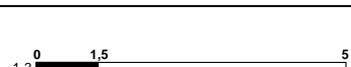
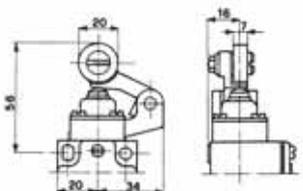
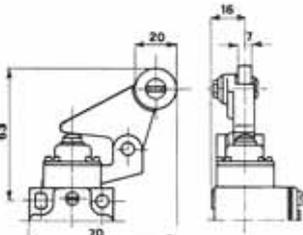
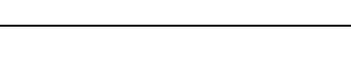
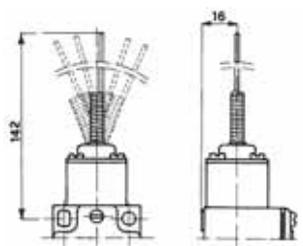
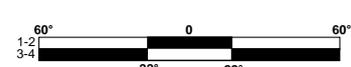
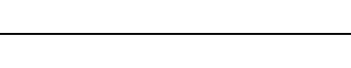
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OVERALL DIMENSIONS (MM)



STANDARD LIMIT SWITCHES

DESCRIPTION	CODE	CONTACTS	SWITCH	ACTUATING TRAVEL
Plunger 	PF25760100	1 NO+1NC	Snap	
	PF25760300	1 NO+1NC	Slow	
Ball plunger 	PF25760600	1 NO+1NC	Snap	
	PF25760800	1 NO+1NC	Slow	
Roller plunger 	PF25761100	1 NO+1NC	Snap	
	PF25761300	1 NO+1NC	Slow	
Central roller lever 	PF25761600	1 NO+1NC	Snap	
	PF25761800	1 NO+1NC	Slow	
Angular roller lever 	PF25762100	1 NO+1NC	Snap	
	PF25762300	1 NO+1NC	Slow	
Flexible rod 	PF25762600	1 NO+1NC	Snap	
	PF25762800	1 NO+1NC	Slow	

Measuring unit: mm

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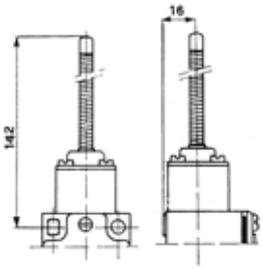
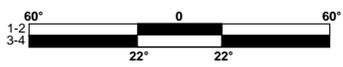
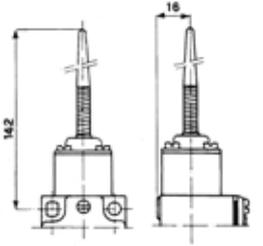
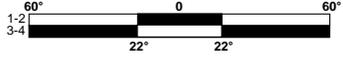
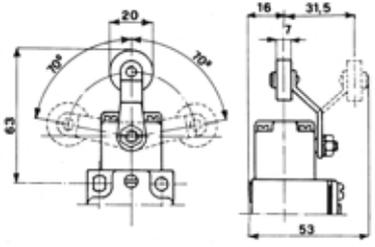
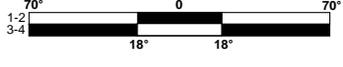
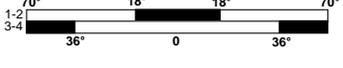
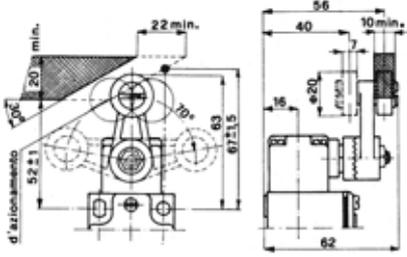
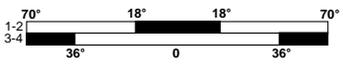
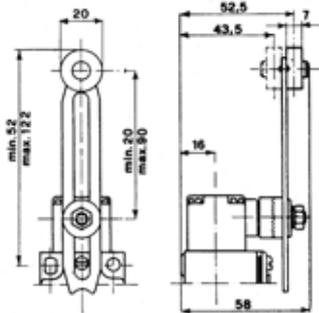
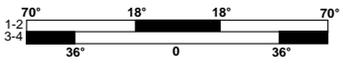
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DESCRIPTION	CODE	CONTACTS	SWITCH	ACTUATING TRAVEL
Central stiffened spring rod				
	PF25763100	1 NO+1NC	Snap	
	PF25763300	1 NO+1NC	Slow	
Central spring rod with ferrule				
	PF25763600	1 NO+1NC	Snap	
	PF25763800	1 NO+1NC	Slow	
Central roller iron lever				
	PF25764100	1 NO+1NC	Snap	
	PF25764300	1 NO+1NC	Slow	
Lateral roller lever				
	PF25765100	1 NO+1NC	Snap	
	PF25765300	1 NO+1NC	Slow	
Adjustable roller lever				
	PF25765600	1 NO+1NC	Snap	
	PF25765800	1 NO+1NC	Slow	

Measuring unit: mm

DESCRIPTION	CODE	CONTACTS	SWITCH	ACTUATING TRAVEL
Adjustable steel rod				
	PF25766100	1 NO+1NC	Snap	
	PF25766300	1 NO+1NC	Slow	
Lateral stiffened spring rod				
	PF25766600	1 NO+1NC	Snap	
	PF25766800	1 NO+1NC	Slow	
Lateral spring rod with ferrule				
	PF25767100	1 NO+1NC	Snap	
	PF25767300	1 NO+1NC	Slow	
Ring for rope				
	PF25767600	1 NO+1NC	Slow	
Double lever				
	PF25768100	1 NO+1NC	Snap	
	PF25768300	1 NO+1NC	Slow	

Measuring unit: mm

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The Din position limit switch is an electromechanical device for low voltage control circuits (EN 60947-1, EN 60947-5-1) to be used as electrical equipment on machines (EN 60204-1) in compliance with the fundamental requirements of the Low Voltage Directive 2006/95/CE and of the Machine Directive 2006/42/CE.

The limit switch is designed for use in industrial environments under even severe climatic conditions (operational temperature from -25°C to $+70^{\circ}\text{C}$ suitable for use in tropical environment). The equipment is not suitable for use in environments with potentially explosive atmosphere, corrosive agents or a high percentage of sodium chloride (saline fog). Oils, acids or solvents may damage the equipment. Do not connect more than one phase to each switch.

Do not oil or grease the control elements or the switches.

The installation of the limit switch shall be carried out by expert and trained personnel. Wiring shall be properly done according to the current instructions.

Prior to the installation and the maintenance of the limit switch, the main power of the machinery shall be turned off.

Steps for the proper installation of the limit switch

- First, position the limit switch so that the machine or one arm of it strikes or pushes, depending on the limit switch type, the rod, the lever, the spring or the piston on the head of the limit switch. Follow the instructions carefully with regards to the positions indicated in the maximum actuating dimensions and travel in the technical documentation.

- Mark the fastening holes on the supporting wall and drill the holes.

After fastening, make sure the rod is perfectly vertical, that the rods are securely fastened in the head and that the points of impact are as verified previously.

- loosen the fixing screw and remove the cover

- insert the cable into the limit switch through the cable clamp (not supplied)

- strip the cable to a length suitable for wiring the switches

- tape the stripped part of the cable

- clamp the wire into the cable clamp

- connect the switches according to the contact scheme printed on the switches or on the technical documentation.

- close the limit switch checking the proper positioning of the rubber in the cover and tighten the screws

Periodic maintenance steps

- Make sure the limit switch is securely fastened in place and the fasteners are tightened properly.

- Make sure there are no infiltrations of water through the wire clamp (not supplied) and that the rubber sleeve is intact and flexible.

- Open the cover and check that the gasket is intact and flat in its housing.

- Check that the switches are properly wired and the terminals securely fastened; test the on/off mechanism manually.

- Make sure the head turns or is pushed without forcing, that it is clean and moves without uncertainty between one position and the next; make sure the screws on the head are properly tightened. If there is any difficulty in switching and positioning the head, replace the limit switch.

- Check the conditions of the levers or pistons and make sure they are positioned correctly: if the levers are not perfectly straight they should be replaced and repositioned carefully in accordance with the specifications.

In case any component of the limit switch is modified, the validity of the markings and the guarantee on the equipment are annulled. Should any component need replacement, use original spare parts only.

TER declines all responsibility for damages caused by the improper use or installation of the equipment.

