# 7551-7552

# **Position limit switch**



Cross position limit switches designed to control the movement of overhead travelling cranes, hoists and complex machine tools.

The choice of materials and technical solutions adopted enable use in harsh operating conditions.

#### **FEATURES**

- Designed to guarantee excellent performance in the most challenging operating conditions.
- Rods with 4 maintained positions every 90°.
- · 4 fixing holes.
- Positive opening NC contacts for safety functions.
- Mechanical life of switches: 1 million operations.
- Operation frequency: 3600 operations/hour max.
- IP protection degree: 7551-7552 is classified IP66 with specific cable clamp M20.
- Extreme temperature resistance: -40°C to +70°C.
- It features die-cast aluminum alloy enclosure, with bushings made of sinterized material and head made of zama to resist any violent impact, chemical aggression and rust and reduce the need for routine maintenance operation on the head.
- All materials and components used are wear resistant and guarantee protection of the unit against water and dust.

#### **OPTIONS**

- 4 snap action switches with 1NO+1NC contacts or slow action switches with 1NC contact.
- 3 outputs for cable clamps to reduce installation time and make wiring easier.

#### **CERTIFICATIONS**

· CE marking and EAC certification.

**UK Distributor** 



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# **CERTIFICATIONS**

Conformity to Community Directives	2014/35/UE Low Voltage Directive 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
Markings and homologations	C € INI

# **GENERAL TECHNICAL SPECIFICATIONS**

Ab.:	Storage -40°C/+70°C	
Ambient temperature	Operational -40°C/+70°C	
IP protection degree	IP66 max. with specific cable clamp M20 (not supplied)	
Insulation category	Class I	
Operation frequency	3600 operations/hour max	
Cable entry	M20	

# **TECHNICAL SPECIFICATIONS OF THE SWITCHES**

Code	PRSL0036XX	PRSL0037XX			
Utilisation category	AC	AC 15			
Rated operational current	3	3 A			
Rated operational voltage		250 Vac			
Rated thermal current	10	10 A			
Rated insulation voltage	300	300 Vac			
Mechanical life	1x10 <sup>6</sup> or	1x10 <sup>6</sup> operations			
Connections	Screw-typ	Screw-type terminals			
Wires	1x2.5 mm <sup>2</sup> (UL - (c)UL: use 60°C or 75°C copper	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	0.8	0.8 Nm			
Microswitch type	Double break, snap action	Double break, slow action			
Contacts	1NO+1NC  (All NC contacts are of the positive opening operation type )	1NC (All NC contacts are of the positive opening operation type )			
Scheme	[ 14 22	11 [7 12			
Markings and homologations	، ٤٠	C € c⊕us [A[			

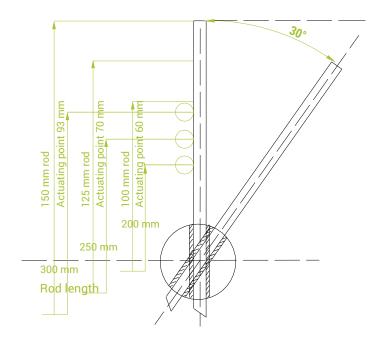


#### MAXIMUM ACTUATING DIMENSIONS

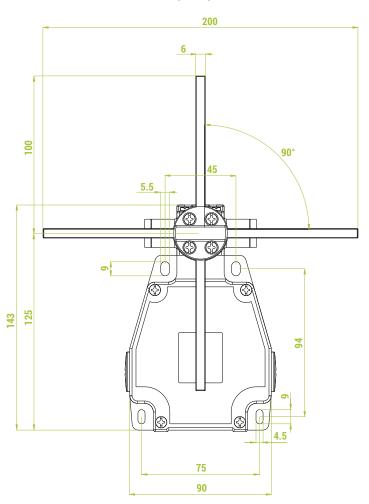
#### **Rods with 4 maintained positions**

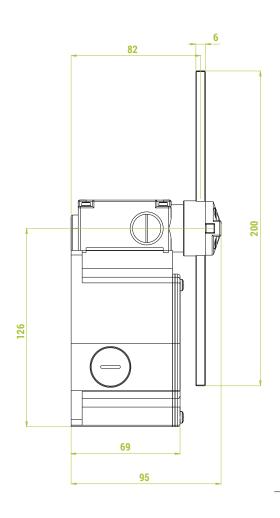
- Pre-travel angle for rotation contact operation: 49°
- Maximum rotation angle for each maintained position: 90°
- Average angle for the mechanical tripping: 48°
- Maintained positions each: 90°

In order to ensure proper operations, the dimensions shall not be increased; anyhow, they can be decreased, taking into account that the closer the impact point is to the center of the head, the higher the impact and the mechanical wear of rod and shaft are. IMPORTANT: the maximum impact speed is 1.35 m/s, refering to the ideal impact points showed in the drawing.



### **OVERALL DIMENSIONS (mm)**

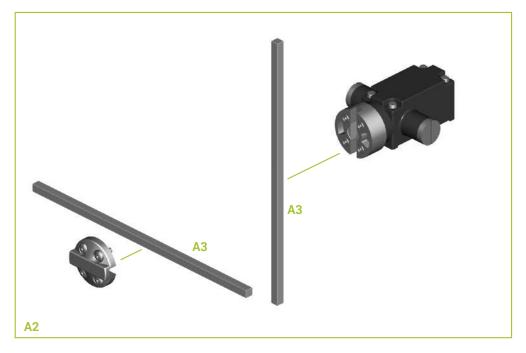


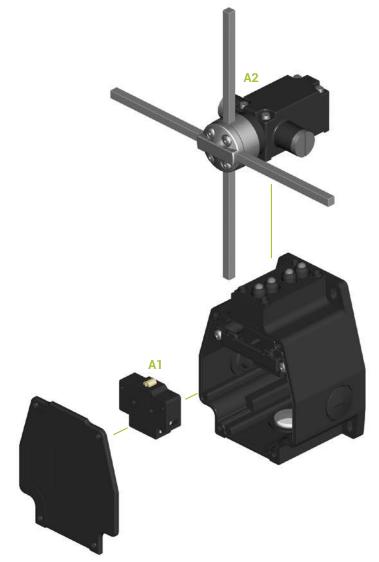


# **LIMIT SWITCHES**

No. and type of switches	Actuating travel			Rod length	Code
4 switches PRSL0036XX	180° 1-2 3-4	00	70° 180°	-	
13 21	180°	0°	160° 180°		
\	1-2 3-4 180° 70°	0°	180°	200 mm	PF26755100
14 22	1-2 3-4 180° 160° 1-2 3-4	00	180°		
4 switches	90° 70°	0°	90°		
PRSL0036XX	1-2	-			
13 21   L	90° 70° 1-2 3-4	00	90°	200	DE06755000
14 22	90° 1-2 3-4	0°	70° 90°	200 mm	PF26755200
	90° 1-2 3-4	0°	70° 90°		
switches	<b>180°</b> 1-2	0°	70° 180°		
11	180° 1-2	0°	160° 180°		
<del>}</del>	180° 70° 1-2	0°	180°	200 mm	PF26755124
1 12	180° 160° 1-2	0°	 180°		







# 24062020

# **COMPONENTS**

# **Switches**

Ref.	Drawing	Description	Scheme	Code
A1		1NO+1NC snap action switch	E\(\frac{13}{1}\) \(\frac{21}{1}\)	PRSL0036XX
		1NC slow action switch	E	PRSL0037XX

#### **Accessories**

Ref.	Drawing	Description	Code
		Head for PF26755100	PF267551TE
A2		Head for PF26755200	PF267552TE
A3		Rod 6x6x200 mm	PRTO3006PE