

Pizzato Elettrica S.r.l. Via Torino, 1 36063 Marostica (VI)

Tel. +39.0424.470.930 Fax +39.0424.470.955 E-mail info@pizzato.com Web www.pizzato.com

Sheet: 15367-0-en-2.1.0 FR 207 Article: Date:

2018/01/11 Description: Position switch with adjustable one-way roller Page: 1/3



Polymer housing, one threaded PG 13,5 conduit entry (FR series)

Ambient temperature: from -25°C to +80°C Max actuation frequency: 3600 operations cycles/hour Mechanical endurance: 20 million operations cycles

Contact block characteristics:

2x(1NO-1NC) fast action (B2)

Double breaking.

Positive switch opening:

Device without positive opening. If installed individually, not suitable for safety applications.

Travel diagram:



- Closed contact
- Opened contact
- → Positive opening travel (IEC 60947-5-1)
- ① Opening travel 2x2m (EN 81)
- Reset device travel
- Pushing the switch
- Releasing the switch
- Tripping mechanical point

Cross section of the conductors (flexible copper wire):

min. 1 x 0,5 mm2 (1 x AWG 20) max. 2 x 1,5 mm2 (2 x AWG 16)

Device screw tightening torques:

Cover screws: 0.7 ... 0.9 Nm Head screws: 0,5 ... 0,7 Nm Lever screws: 0,7 ... 0,9 Nm

Contact blocks screws: 0,6 ... 0,8 Nm Plugs: 1,2 ... 1,6 Nm (M20/PG13,5) 1 ... 1,4 Nm (M16/PG11)

In conformity with requirements requested by: Activating forces:

Low Voltage Directive 2014/35/EU Electromagnetic Compatibility Directive Positive opening: 25 N 2014/30/EU

In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, EN 50047, IEC 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN 60529, UL 508,CSA 22.2 No. 14. **Approvals:**

IEC 60947-5-1, UL 508, CSA 22.2 No. 14, GB14048.5-2001.

Markings and quality marks:









Electrical data:

Thermal current (Ith): 10 A Rated insulation voltage (Ui): 400 Vac 500 Vdc Rated impulse withstand voltage (Uimp): 4 kV Conditional shot circuit current: 1000 A according to EN 60947-5-1 Protection against short circuits: fuse 10 A 500 V type aM Pollution degree: 3

17 - 20 - 23

30.8

. 5.4

30.8

Utilization categories:

Alternate current: AC15 (50...60 Hz) Ue (V) 250 400 Ie (A) 6 4 Direct current: DC13 125 250 Ue (V) 24 Ie (A) 1.1 0,4



Pizzato Elettrica S.r.l.

Via Torino, 1 36063 Marostica (VI) ITALY

Tel. +39.0424.470.930 Fax +39.0424.470.955

E-mail info@pizzato.com Web www.pizzato.com

Sheet: 15367-0-en-2.1.0 FR 207 Article: Date: 2018/01/11 Description: Position switch with adjustable one-way roller

Page: 2/3

Data type approved by IMQ.

Rated insulation voltage (Ui): 500 Vac 400 Vac (for contact blocks 2, 11, 12, 20, 21, 22, 33, 34)

Thermal current (Ith): 10 A

Protection against short circuits: fuse 10 A 500 V type aM

Rated impulse withstand voltage (Uimp): 6 kV 4 kV (for contact blocks 20, 21, 22, 33, 34)

Protection degree: IP67 MV terminals (screw clamps) Pollution degree 3

Utilization category: AC15 Operation voltage (Ue): 400 Vac (50 Hz)

Operation current (Ie): 3 A

Forms of the contact element: Za, Zb, Za+Za, Y+Y, X+X, Y+Y+X, Y+Y+Y, Y+X+X

Positive opening of contacts on contact block 5, 6, 7, 9, 11, 13, 14, 16, 18, 20, 21, 22, 33,

In conformity with standards: EN 60947-1, EN 60947-5-1+ A1:2009, fundamental requirements of the Low Voltage Directive 2006/95/CE.

Data type approved by UL

Utilization categories Q300 (69 VA, 125-250 Vdc)

A600 (720 VA, 120-600 Vac)

Data of the housing type 1, 4X "indoor use only", 12, 13

For all contact blocks except 2 and 3 use 60 or 75 °C copper (Cu) conductor

and wire size No. 12-14 AWG. Terminal tightening torque of 7,1 lb in (0.8 Nm).

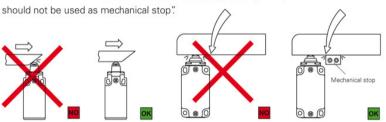
For contact blocks 2 and 3 use 60 or 75 °C copper (Cu) conductor and wire

size No. 14 AWG. Terminal tightening torque of 12 lb in (1.4 Nm). In conformity with standard: UL 508

Mechanical stop

In accordance with the EN ISO 14119 standard, paragraph 5.2, "the position sensors





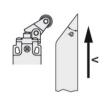
The guard should not make a mechanical stop on the switch head.

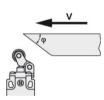
Actuation speed

φ	Vmax (m/s)	Vmin (mm/s)	Vmin (mm/s)
15°	1	5	0,05
30°	0,5	2,5	0,025
45°	0,3	1,5	0,015

Contacts type:







Actuation modality

Recommended application	Application to avoid Possible application but with mechanical stress for the switch higher than expected, mechanical endurance is not guaranteed	Forbidden application
≤45° ≤45°	> 45°	



Pizzato Elettrica S.r.I. Via Torino, 1 36063 Marostica (VI) Tel. +39.0424.470.930 Fax +39.0424.470.955 E-mail info@pizzato.com Web www.pizzato.com

Article: FR 207

Description: Position switch with adjustable one-way roller

Sheet: 15367-0-en-2.1.0
Date: 2018/01/11
Page: 3/3

This device does not feature positive opening and therefore cannot be used individually for safety functions.