

Main features

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- Reduced actuating force
- Protection degree IP67
- Technopolymer housing, one or two conduit entries
- Ability to affix actuator in 2 positions, perpendicular to one another

Quality marks:



IMQ approval: UL approval: CCC approval: EAC approval: EG610 E131787 2007010305230013 RU C-IT.YT03.B.00035/19

Technical data

Description

Double interruption positive opening safety switch. Suitable for controlling automatic lift doors.

Housing

Housing made of glass fibre reinforced technopo	lymer, self-extinguishing, shock-proof
and with double insulation:	
FR series, one conduit entry:	M20x1.5 (M16x1.5 on request)
FX series, two knock-out threaded conduit entries:	M20x1.5 (M16x1.5 on request)
	IP67 with cable gland of equal or higher protection degree

General data

Ambient temperature:	-25°C +80°C
Version for operation at ambient temperatures from -40°C \ldots +8	0°C on request
Max. operating frequency:	3600 operating cycles/hour
Mechanical endurance:	10 million operating cycles
Mechanical interlock, not coded:	type 1 acc. to EN ISO 14119
Safety parameter B _{10D} :	20,000,000 for NC contacts
Max. actuation speed:	0.5 m/s
Min. actuation speed:	1 mm/s
Mounting position:	any
Tightening torques for installation:	see page 141
Wire cross-sections and	
wire stripping lengths:	see page 153

In compliance 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, EN IEC 63000, EN 81-20, EN 81-50, UL 508, CSA 22.2 No.14. Approvals:

IEC 60947-5-1, UL 508, CSA 22.2 No.14, GB/T14048.5-2017.

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, Lift Directive 2014/33/EU, RoHS Directive 2011/65/EU. **Positive contact opening in conformity with standards:** IEC 60947-5-1, EN 60947-5-1.

Installation for safety applications:

Use only switches marked with the symbol O next to the product code. Always connect the safety circuit to the **NC contacts** (normally closed contacts: 11-12, 21-22 or 31-32) as stated in **standard EN 81-20 par. 5.11.2.2.1**. Actuate the switch **at least up to the positive opening travel** reported in the travel diagrams. Actuate the switch **at least with the positive opening force**, reported in brackets below each article, next to the actuating force value.

 ${}^{ extsf{M}}$ If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 139 to 146.

Electrical data		Utilizati	on categ	ory	
Thermal current (I _{th}):	10 A	Alternating current: AC15 (50÷60 Hz)			
Rated insulation voltage (U _i):	500 Vac 600 Vdc	U_ (V)	250	400	500
Rated impulse withstand voltage (U _{imp}):	6 kV	I (A)	6	4	1
Conditional short circuit current:	1000 A acc. to EN 60947-5-1	Ďirect current: DC13			
Protection against short circuits:	type aM fuse 10 A 500 V	U_ (V)	24	125	250
Pollution degree:	3	۱ _e (̈́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́	3	0.55	0.3

Features approved by IMQ

Forms of the contact element: Y, Y+Y

10 A type aM fuse 10 A 500 V 6 kV IP67 3 AC15 400 Vac (50 Hz) 3 A

Features approved by UL

Electrical Ratings:	Q300 pilot duty (69 VA, 125-250 V dc) A600 pilot duty (720 VA, 120-600 V ac)	
Environmental Ratings: Types 1, 4X, 12, 13		
For all contact blocks use 60 or 75°C copper (Cu) conductors, rigid or flexible, wire size 12, 14 AWG. Tightening torque for terminal		
screws of 7.1 lb in (0.8 N	5 5 1	

The hub is to be connected to the conduit before the hub is connected to the enclosure.

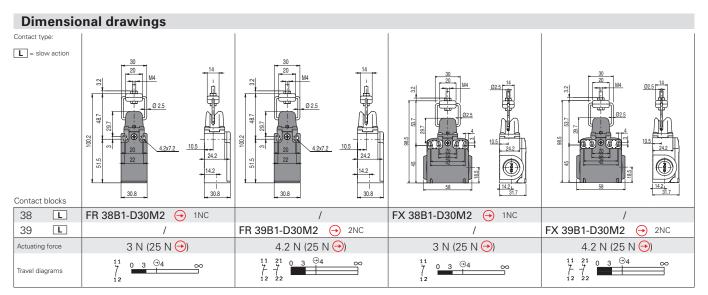
Please contact our technical department for the list of approved products.

Positive opening of contacts on contact blocks 38, 39

In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU

Please contact our technical department for the list of approved products.

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Legend

Closed contact | C Open contact | Θ Positive opening travel

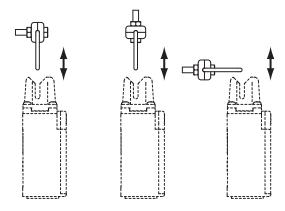
Compliant with EN 81-20 and EN 81-50



- Safety contacts in compliance with
- EN 60947-5-1, annex K.
- Protection degree higher than IP4x. • Mechanical service life > 10⁶ cycles.

Adjustable actuator

The actuator can be fixed in two positions, perpendicular to one another. The switch can also be actuated from different directions.



Separate actuator

Article	Description
VF KEYD30	Adjustable actuator

Head with variable orientation

The head of all switches is adjustable in 90° steps.

