

### Main features

- Technopolymer housing, from one to two conduit entries
- Protection degree IP67
- Versions with assembled M12 connector
- Compliant with EN 81

#### Quality marks:



IMQ approval: UL approval: CCC approval: EAC approval:

EG610 E131787 2007010305230013 RU C-IT.YT03.B.00035/19

# **Technical data**

#### Housing

Housing made of glass fibre reinforced technopolymer, self-extinguishing, shock-proof and with double insulation: FR series, one conduit entry: M20x1.5 (standard) FX series, two knock-out threaded conduit entries: M20x1.5 (standard) IP67 with cable gland of equal or Protection degree acc. to EN 60529: higher protection degree

### General data

Ambient temperature: -25°C ... +80°C Version for operation at ambient temperatures from -40°C ... +80°C on request Max. operating frequency: 3600 operating cycles/hour Mechanical endurance: 1 million operating cycles Mounting position: any Tightening torques for installation: see page 141 Wire cross-sections and wire stripping lengths: see page 153 **Electrical endurance** Load type: 20 single-tube neon lamps 36 W / 230 V (connected in parallel)

Frequency: Maximum number of cycles:

#### 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:

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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.

## ${ar \Delta}$ 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		Utilizat	ion catego	ory		
Thermal current (I <sub>tr</sub> ): Rated insulation voltage (U <sub>r</sub> ): Rated impulse withstand voltage (U <sub>imp</sub> ):	10 A 500 Vac 600 Vdc 400 Vac 500 Vdc (contact blocks 11, 12) 6 kV	U e (V) I (A)	ing curren 250 6	400 4	0÷60 Hz) 500 1	
Conditional short circuit current: Protection against short circuits: Pollution degree:	1000 A acc. to EN 60947-5-1 type aM fuse 10 A 500 V 3	Direct ci U <sub>e</sub> (V) I <sub>e</sub> (A)	urrent: DC 24 3	13 125 0.55	250 0.3	

# Features approved by IMQ

Rated	insulation voltage (U <sub>i</sub> ):	

Conventional free air thermal current  $(I_{th})$ : Protection against short circuits: Rated impulse withstand voltage (U., Protection degree of the housing: MV terminals (screw terminals) Pollution degree: Utilization category: Operating voltage (U<sub>e</sub>): Operating current (I):

500 Vac 400 Vac (for contact blocks 11, 12) 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 Nm).

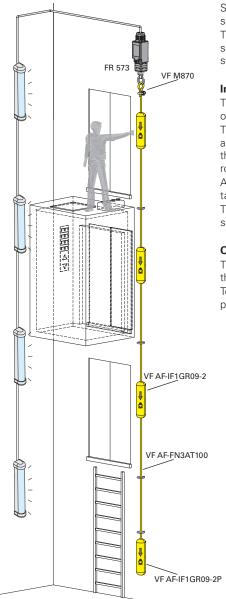
The hub is to be connected to the conduit before the hub is connected to the enclosure.

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

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

# Introduction



Standard EN 81-20, paragraph 5.2.1.5, details the requirement for switches to illuminate the lift shaft, close to each access point, and in machinery spaces.

The FR 573 switch has been designed specifically to operate the lights in the lift shaft, and, as a single unit with a single cabling, allows this requirement to be met without having to install light switches and cabling separately on each floor.

### Installation:

The installation is extremely simple: the switch is fixed in the upper part of the lift shaft and it is operated by means of a rope that runs through the entire shaft.

The relevant indicators of the rope's function – placed at regular intervals on each floor – also act as convenient handles. In this way, an operator on the cabin roof, or at any position throughout the lift shaft, is able to actuate the switch by simply pulling the practical indicator device, or the rope itself.

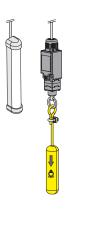
A special function indicator with weights is installed at the end of the rope, in order to keep it taut.

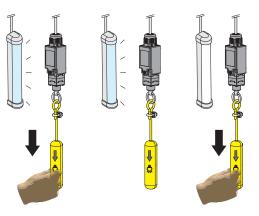
The maximum recommended rope length is 50 metres. For longer lengths, please contact our sales office.

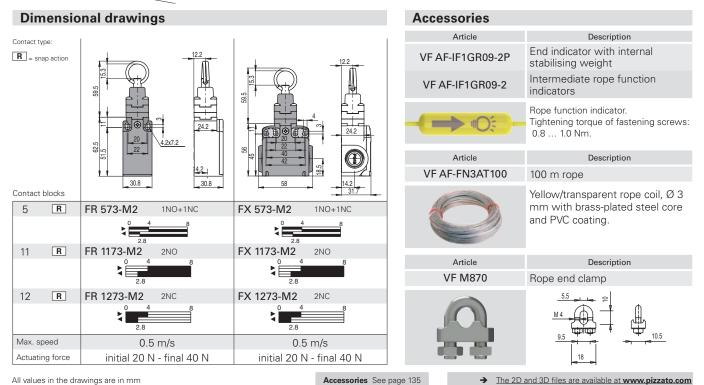
## Operation:

The FR 573 switch retains its position after actuation. This means that the first actuation closes the contacts, the next actuation opens them, and so on.

To switch on the light in the lift shaft it is sufficient to pull the rope. To switch the light off, simply pull the rope again.

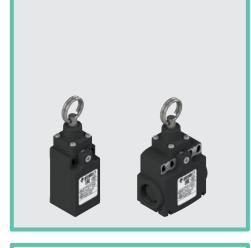






Lift General Catalogue 2020-2021

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### Main features

- Technopolymer housing, from one to two conduit entries
- Protection degree IP67
- Versions with assembled M12 connector
- · Versions with gold-plated silver contacts

#### Quality marks:



IMQ approval: UL approval: CCC approval: EAC approval:

EG610 E131787 2007010305230013 RU C-IT.YT03.B.00035/19

# **Technical data**

#### Housing

Housing made of glass fibre reinforced technopolymer, self-extinguishing, shock-proof and with double insulation: FR series, one conduit entry: M20x1.5 (standard) FX series, two knock-out threaded conduit entries: M20x1.5 (standard) Protection degree: IP67 acc. to EN 60529 with cable gland of equal or higher protection degree

### General data

-25°C +80°C Ambient temperature: Version for operation at ambient temperatures from -40°C ... +80°C on request Max. operating frequency: 3600 operating cycles/hour Mechanical endurance: 20 million operating cycles Mounting position: anv 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.

 ${ar \Delta}$  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**

Thermal current (I,): Rated insulation voltage (U): Rated impulse withstand voltage (U<sub>imp</sub>): Conditional short circuit current: Protection against short circuits: Pollution degree:

10 A 500 Vac 600 Vdc 6 kV 1000 A acc. to EN 60947-5-1 type aM fuse 10 A 500 V 3

#### Utilization category

Alternati	ng current	:: AC15 (50	0÷60 Hz)
U_ (V)	250	400	500
ا <sub>e</sub> (́A)	6	4	1
Ďirect cu	irrent: DC	13	
U_ (V)	24	125	250
l <sub>e</sub> (A)	3	0.55	0.3

### Features approved by IMQ

Rated insulation voltage (U): Conventional free air thermal current (It) Protection against short circuits: Rated impulse withstand voltage (U Protection degree of the housing: MV terminals (screw terminals) Pollution degree: Utilization category Operating voltage (U<sub>e</sub>): Operating current (I):

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

500 Vac

# 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 Nm).

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

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

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# Dimensional drawings

Contact type: R = snap action S = slow action		
5 R	FR 576-M2 1NO+1NC	FX 576-M2 1NO+1NC
	3.8	3.8
9 L	FR 976-M2 2NO	FX 976-M2 2NO
	0 3.1 8	0 3.1 8
Max. speed	0.5 m/s	0.5 m/s
Actuating force	initial 20 N - final 40 N	initial 20 N - final 40 N

# Accessories

Article	Description
VF AF-IF1GR09-2P	End indicator with internal stabilising weight
VF AF-IF1GR09-2	Intermediate rope function indicators
	Rope function indicator.
	Tightening torque of fastening screws: 0.8 1.0 Nm

Article	Description	
VF AF-FN3AT100	100 m rope	
	Yellow/transparent rope coil, Ø 3 mm with brass-plated steel core and PVC coating.	
Article	Description	
VF M870	Rope end clamp	
V1 W070		