

Предохранительные выключатели для петель FD, FL, FC

Технические характеристики

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Казахстан +(727)345-47-04

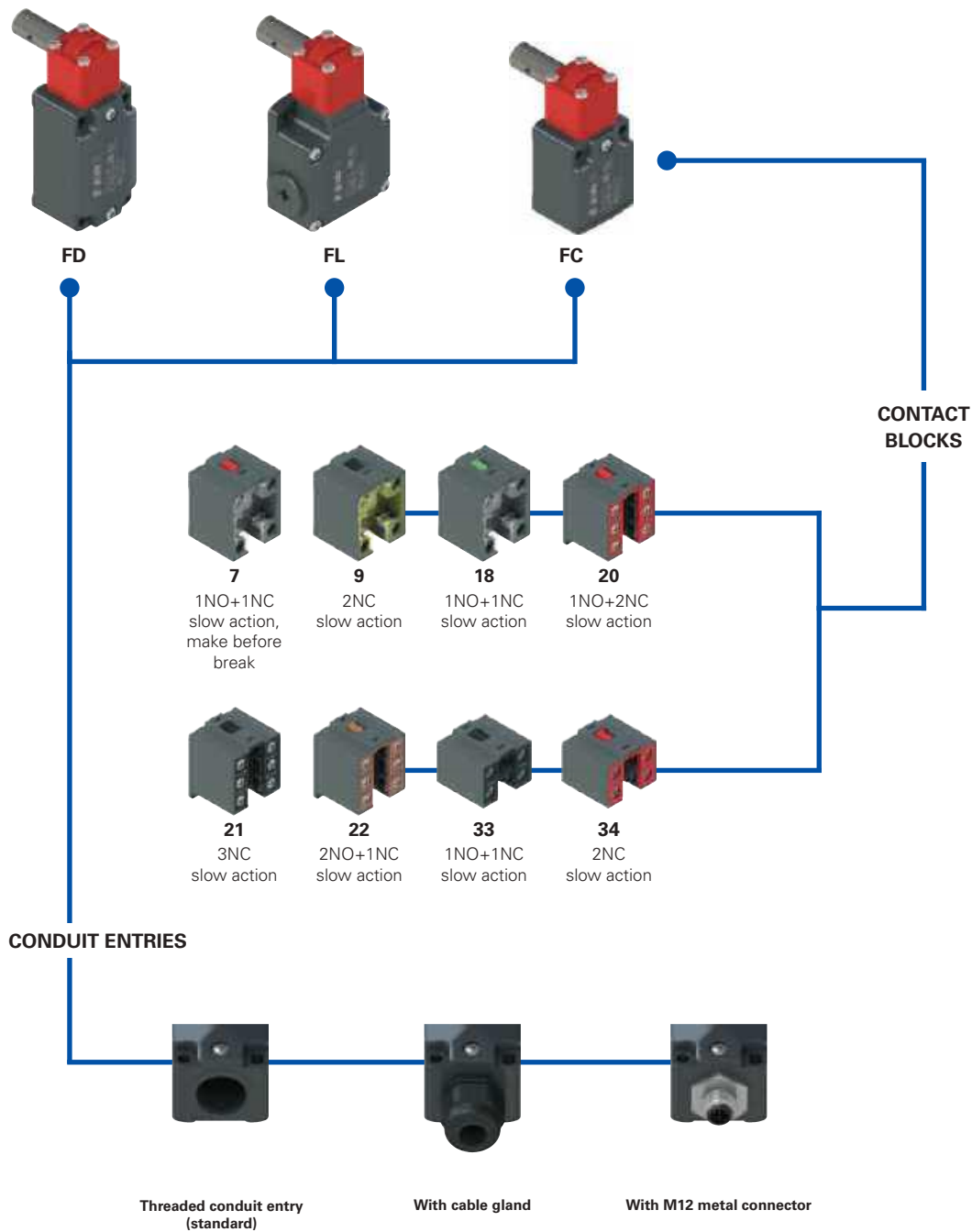
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эл.почта: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>

Selection diagram



—●— Product options

**Code structure****Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article options options
FD 1895-GM2K50T6

Housing	
FD	metal, one conduit entry
FL	metal, three conduit entries

Ambient temperature	
	-25°C ... +80°C (standard)
T6	-40°C ... +80°C

Contact block	
7	1NO+1NC, slow action, make before break
9	2NC, slow action
18	1NO+1NC, slow action
20	1NO+2NC, slow action
21	3NC, slow action
22	2NO+1NC, slow action
33	1NO+1NC, slow action
34	2NC, slow action

Pre-installed cable glands or connectors	
	no cable gland or connector (standard)
K23	cable gland for cables Ø 6 ... 12 mm
...	...
K50	M12 metal connector, 5-pole
...	...

For the complete list of possible combinations please contact our technical department.

Contact type	
	silver contacts (standard)
G	silver contacts with 1 µm gold coating
G1	silver contacts, 2.5 µm gold coating (not for contact blocks 20, 21, 22, 33, 34)

Threaded conduit entry	
M2	M20x1.5 (standard)
	PG 13.5

article options options
FC 3395-GM2K50T6

Housing	
FC	metal, one conduit entry

Ambient temperature	
	-25°C ... +80°C (standard)
T6	-40°C ... +80°C

Contact block	
33	1NO+1NC, slow action
34	2NC, slow action

Pre-installed cable glands or connectors	
	no cable gland (standard)
K23	cable gland for cables Ø 6 ... 12 mm
K50	M12 metal connector, 5-pole

Contact type	
	silver contacts (standard)
G	silver contacts with 1 µm gold coating

Threaded conduit entry	
M2	M20x1.5 (standard)
	PG 11



Main features

- Metal housing, from one to three conduit entries
- Protection degree IP67
- 8 contact blocks available
- Stainless steel actuator
- Versions with M12 connector
- Versions with gold-plated silver contacts

Quality marks:



IMQ approval:	EG605
UL approval:	E131787
CCC approval:	2021000305000099
EAC approval:	RU C-IT.YT03.B.00035/19

Technical data

Housing

FD, FL and FC series: metal housing, baked powder coating.	
Stainless steel actuator.	
FD, FC series: one threaded conduit entry:	M20x1.5 (standard)
FL series: three threaded conduit entries:	M20x1.5 (standard)
Protection degree:	IP67 acc. to EN 60529 with cable gland of equal or higher protection degree

General data

SIL (SIL CL) up to:	SIL 3 acc. to EN 62061
Performance Level (PL) up to:	PL e acc. to EN ISO 13849-1
Mechanical interlock, not coded:	type 1 acc. to EN ISO 14119
Safety parameters:	
B_{10D} :	5,000,000 for NC contacts
Mission time:	20 years
Ambient temperature:	-25°C ... +80°C (standard) -40°C ... +80°C (T6 option)
Max. actuation frequency:	3600 operating cycles/hour
Mechanical endurance:	1 million operating cycles
Max. actuation speed:	180°/s
Min. actuation speed:	2°/s
Tightening torques for installation:	see page 441
Wire cross-sections and wire stripping lengths:	see page 461

In compliance with standards:

IEC 60947-5-1, IEC 60947-1, IEC 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN IEC 63000, UL 508, CSA C22.2 No. 14.

Approvals:

EN 60947-5-1, UL 508, CSA C22.2 No. 14, GB/T14048.5

Compliance with the requirements of:

Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1.

⚠ If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 439 to 454.

Electrical data		Utilization category			
without connector	Thermal current (I_{th}):	10 A	Alternating current: AC15 (50÷60 Hz)		
	Rated insulation voltage (U_i):	500 Vac 600 Vdc 400 Vac 500 Vdc (contact blocks 20, 21, 22, 33, 34)	U_e (V)	250	400
	Rated impulse withstand voltage (U_{imp}):	6 kV 4 kV (contact blocks 20, 21, 22, 33, 34)	I_e (A)	6	4
	Conditional short circuit current:	1000 A acc. to EN 60947-5-1	Direct current: DC13		
with M12 connector, 4 or 5-pole	Protection against short circuits:	type aM fuse 10 A 500 V	U_e (V)	24	125
	Pollution degree:	3	I_e (A)	3	0.55
	Thermal current (I_{th}):	4 A			
	Rated insulation voltage (U_i):	250 Vac 300 Vdc	U_e (V)	24	120
with M12 connector, 8-pole	Protection against short circuits:	type gG fuse 4 A 500 V	I_e (A)	4	4
	Pollution degree:	3	Direct current: DC13		
	Thermal current (I_{th}):	2 A	U_e (V)	24	125
	Rated insulation voltage (U_i):	30 Vac 36 Vdc	I_e (A)	3	0.55
with M12 connector, 8-pole	Protection against short circuits:	type gG fuse 2 A 500 V			
	Pollution degree:	3	Direct current: DC13		
	Thermal current (I_{th}):	2 A	U_e (V)	24	
	Rated insulation voltage (U_i):	30 Vac 36 Vdc	I_e (A)	2	



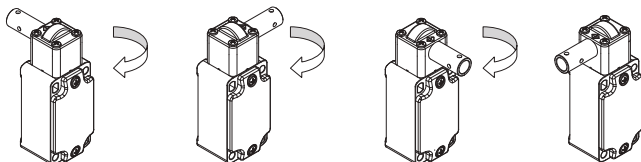
Description



These safety switches are designed to monitor gates or guards that safeguard dangerous parts of machines without inertia. They are very sensitive, open the contacts after few degrees of rotation and immediately send the stop signal. The head, which can be turned in 90° steps, enables installation in multiple positions.

The metal housing and the stainless steel actuator enable use even under operating conditions in which dust and dirt could inhibit the operation of normal safety switches with separate actuator.

Head with variable orientation



For all switches, the head can be adjusted in 90° steps after removing the four fastening screws. This allows you to use the same switch on both right- and left-facing door fronts.

Laser engraving



All devices are marked using a dedicated indelible laser system. These engravings are therefore suitable for extreme environments too. Thanks to this system that does not use labels, the loss of plate data is prevented and a greater resistance of the marking is achieved over time.

Protection degree IP67

IP67 These devices are designed to be used under the toughest environmental conditions, and they pass the IP67 immersion test acc. to EN 60529. They can therefore be used in all environments where the maximum degree of protection is required for the housing.

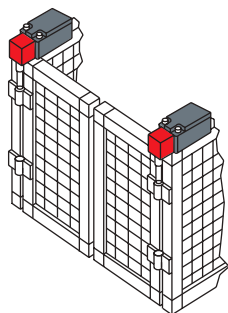
Extended temperature range

-40°C

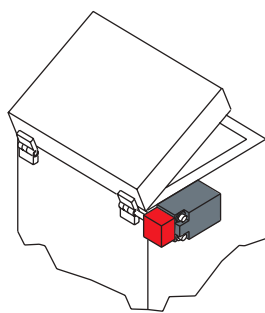
These devices are also available in a special version suitable for an ambient operating temperature range from -40°C up to +80°C.

They can therefore be used for applications in cold stores, sterilisers and other equipment with low temperature environments. The special materials used to produce these versions retain their characteristics even under these conditions, thereby expanding the installation possibilities.

Application examples



Safety switches for hinges, mounting on double door



Safety switch for hinges, mounting outside the safety guard

Adjustable switching point



When installing the device, the contact switching point can be adjusted over the entire 360° range. By fixing the stud screw, it is possible to check the correct setting of the activation angle and quickly and easily adjust it if necessary. Once adjustment is complete, you can render the device tamper-proof against commonly used tools using the supplied lock pin.

Features approved by IMQ

Rated insulation voltage (Ui):	500 Vac 400 Vac (for contact blocks 2, 11, 12, 20, 21, 22, 28, 29, 30, 33, 34, 37)
Conventional free air thermal current (Ith):	10 A
Protection against short circuits:	type aM fuse 10 A 500 V
Rated impulse withstand voltage (U _{imp}):	6 kV 4 kV (for contact blocks 20, 21, 22, 28, 29, 30, 33, 34)
Protection degree of the housing:	IP67
MV terminals (screw terminals)	3
Pollution degree:	AC15
Utilization category:	400 Vac (50 Hz)
Operating voltage (Ue):	3 A
Operating current (Ie):	
Forms of the contact element:	Za, Za+Za, X+X, Zb, Y+Y, Y+Y+X, Y+Y+Y, Y+X+X, Y, X.
Positive opening of contacts on contact blocks	5, 6, 7, 8, 9, 11, 13, 14, 16, 17, 18, 19, 20, 21, 22, 28, 29, 30, 33, 34, 37, 38, 39, 66.
In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.	

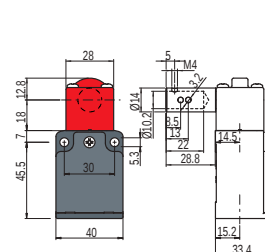
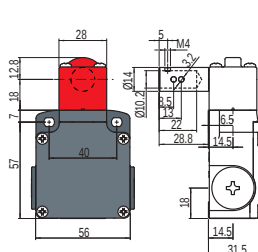
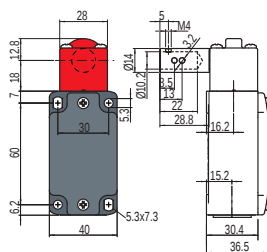
Please contact our technical department for the list of approved products.

Features approved by UL

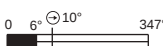
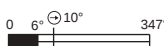
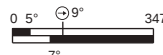
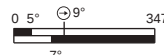
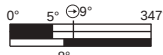
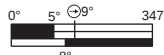
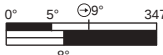
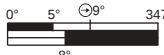
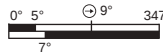
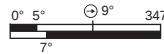
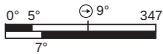
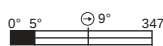
Electrical Ratings:	Q300 pilot duty (69 VA, 125-250 V dc) A600 pilot duty (720 VA, 120-600 V ac)
Environmental Ratings:	Types 1, 4X, 12, 13
Use 60 or 75 °C copper (Cu) conductor and wire size range 12, 14 AWG, stranded or solid. The terminal tightening torque of 7.1 lb in (0.8 Nm).	

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

Contact type:
L = slow action
LO = slow action,
 make before
 break

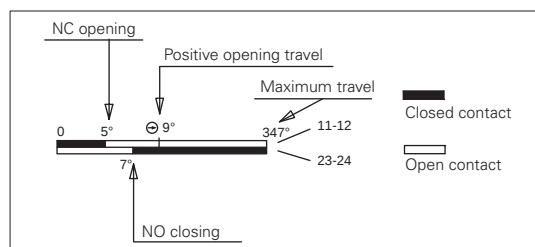


Contact block

Contact block				
7		FD 795-M2  1NO+1NC 	FL 795-M2  1NO+1NC 	/
9		FD 995-M2  2NC 	FL 995-M2  2NC 	/
18		FD 1895-M2  1NO+1NC 	FL 1895-M2  1NO+1NC 	/
20		FD 2095-M2  1NO+2NC 	FL 2095-M2  1NO+2NC 	/
21		FD 2195-M2  3NC 	FL 2195-M2  3NC 	/
22		FD 2295-M2  2NO+1NC 	FL 2295-M2  2NO+1NC 	/
33		FD 3395-M2  1NO+1NC 	FL 3395-M2  1NO+1NC 	FC 3395-M2  1NO+1NC 
34		FD 3495-M2  2NC 	FL 3495-M2  2NC 	FC 3495-M2  2NC 
Actuating force		0.15 Nm (0.4 Nm )	0.15 Nm (0.4 Nm )	0.15 Nm (0.4 Nm )

How to read travel diagrams

All values in the diagrams are in degrees

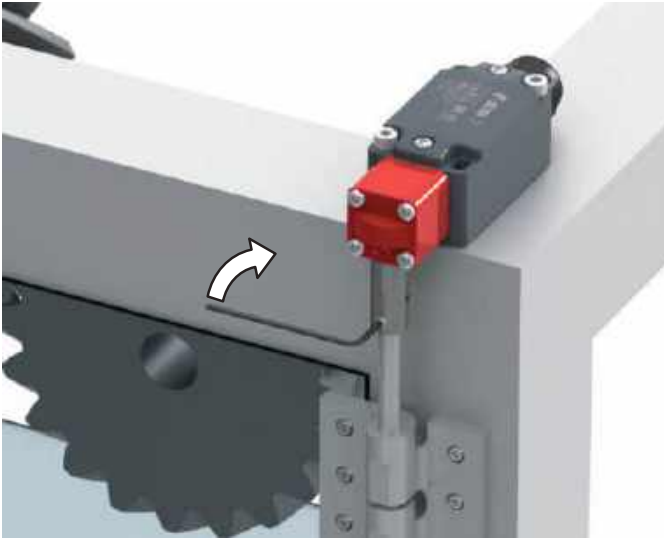


IMPORTANT:

In **safety applications**, actuate the switch **at least up to the positive opening travel** shown in the travel diagrams with symbol $\ominus$. Actuate the switch **at least with the positive opening force**, reported in brackets below each article, next to the actuating force value.



Adjustment of the switching point



Temporary locking of the actuator
(stud screw provided).

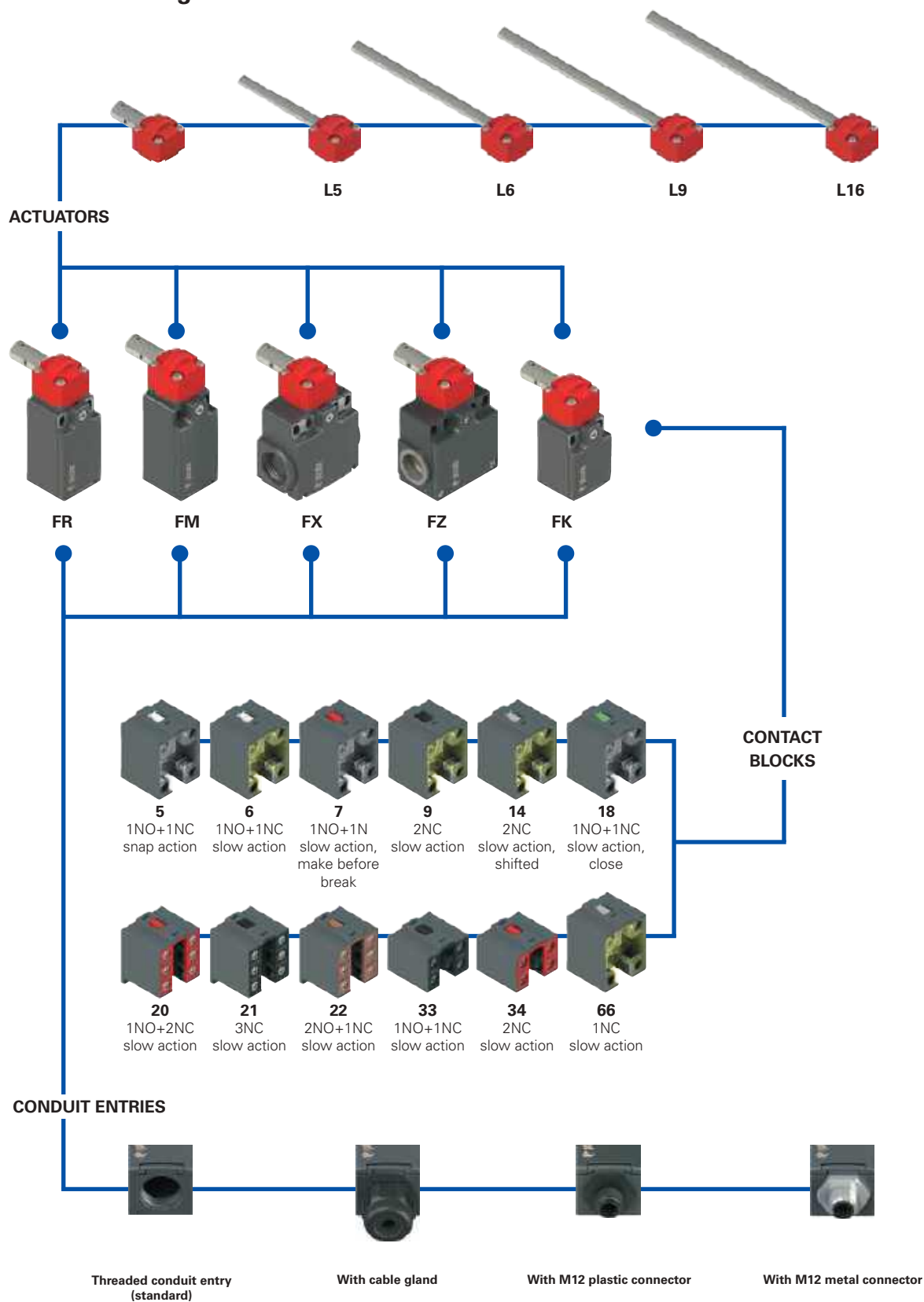


Verify the switching point according to EN ISO 13857
and recalibrate if necessary.



Pin the switch (pin is provided).

Selection diagram



—●— Product options



Code structure

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

article options options
FR 1896-XGL16M2K70T6

Housing	
FR	technopolymer, one conduit entry
FM	metal, one conduit entry
FX	technopolymer, two conduit entries
FZ	metal, two conduit entries

Contact blocks	
5	1NO+1NC, snap action
6	1NO+1NC, slow action
7	1NO+1NC, slow action, make before break
9	2NC, slow action
14	2NC, slow action, shifted
18	1NO+1NC, slow action, close
20	1NO+2NC, slow action
21	3NC, slow action
22	2NO+1NC, slow action
33	1NO+1NC, slow action
34	2NC, slow action
66	1NC, slow action

External metallic parts	
	zinc-plated steel (standard)
X	stainless steel

Contact type	
	silver contacts (standard)
G	silver contacts with 1 µm gold coating
G1	silver contacts, 2.5 µm gold coating (not for contact blocks 20, 21, 22, 33, 34)

Ambient temperature	
	-25°C ... +80°C (standard)
T6	-40°C ... +80°C

Pre-installed cable glands or connectors	
	no cable gland or connector (standard)
K23	cable gland for cables Ø 6 ... 12 mm
...	...
K70	M12 plastic connector, 4-pole
...	...

For the complete list of possible combinations please contact our technical department.

Threaded conduit entry	
M2	M20x1.5 (standard)
M1	M16x1.5 (FR-FX housing only)
	PG 13.5
A	PG 11 (FR-FX housing only)

Actuator design	
	actuator with hole (standard)
L5	Ø8x69 mm, tapered Ø6.9
L6	Ø8x120 mm
L9	Ø8x140 mm
L16	Ø8.7x165 mm, stainless steel

article options options
FK 3396-XGL16M2K24T6

Housing	
FK	technopolymer, one conduit entry

Contact blocks	
33	1NO+1NC, slow action
34	2NC, slow action

External metallic parts	
	zinc-plated steel (standard)
X	stainless steel

Contact type	
	silver contacts (standard)
G	silver contacts with 1 µm gold coating

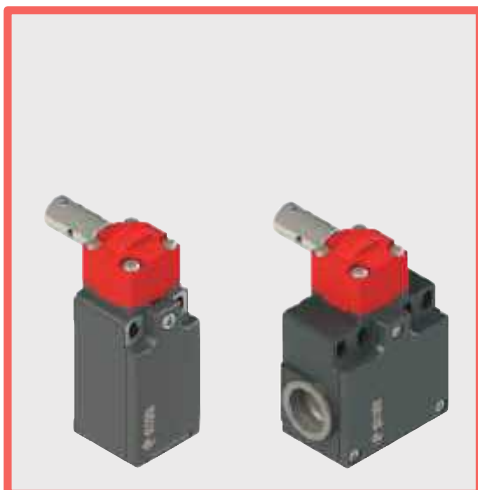
Ambient temperature	
	-25°C ... +80°C (standard)
T6	-40°C ... +80°C

Pre-installed cable glands or connectors	
	no cable gland or connector (standard)
K24	cable gland for cables Ø 5 ... 10 mm
K70	M12 plastic connector, 4-pole

For the complete list of possible combinations please contact our technical department.

Threaded conduit entry	
M2	M20x1.5 (standard)
	PG 11

Actuator design	
	actuator with hole (standard)
L5	Ø8x69 mm, tapered Ø6.9
L6	Ø8x120 mm
L9	Ø8x140 mm
L16	Ø8.7x165 mm, stainless steel



Main features

- Metal housing or technopolymer housing, from one to two conduit entries
- Hinged cover, fixed with single captive screw (FR, FM, FK, FX)
- Metal plates on mounting holes of the housing (FR, FX, FK)
- Protection degree IP 67 and IP69K
- 12 contact blocks available
- Versions with M12 connector
- Versions with gold-plated silver contacts
- Versions with stainless steel external metallic parts

Quality marks:



IMQ approval: EG610
 UL approval: E131787
 CCC approval: 2021000305000101
 EAC approval: RU C-IT.YT03.B.00035/19

Technical data

Housing

FR, FX and FK series housing made of glass fibre reinforced technopolymer, self-extinguishing, shock-proof and with double insulation:

FM and FZ series: metal housing, baked powder coating.

FR, FM series: one threaded conduit entry: M20x1.5 (standard)

FK series: one threaded conduit entry: M20x1.5 (standard)

FX series: two knock-out threaded conduit entries: M20x1.5 (standard)

FZ series: two threaded conduit entries: M20x1.5 (standard)

Protection degree FR, FM, FK, FX: IP67 acc. to EN 60529 (with cable gland of equal or higher protection degree)

IP69K acc. to ISO 20653 (with cable gland of equal or higher protection degree)

Protection degree FZ: IP67 acc. to EN 60529 (with cable gland of equal or higher protection degree)

General data

SIL (SIL CL) up to: SIL 3 acc. to EN 62061

Performance Level (PL) up to: PL e acc. to EN ISO 13849-1

Mechanical interlock, not coded: type 1 acc. to EN ISO 14119

Safety parameters:

B_{10D} : 5,000,000 for NC contacts

Mission time: 20 years

Ambient temperature: -25°C ... +80°C (standard)

-40°C ... +80°C (T6 option)

Max. actuation frequency: 3600 operating cycles/hour

Mechanical endurance: 1 million operating cycles

Max. actuation speed: 180°/s

Min. actuation speed: 2°/s

Tightening torques for installation: see page 443

Wire cross-sections and wire stripping lengths: see page 461

In compliance with standards:

IEC 60947-5-1, IEC 60947-1, IEC 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN IEC 63000, UL 508, CSA C22.2 No. 14.

Approvals:

EN 60947-5-1, UL 508, CSA C22.2 No. 14, GB/T14048.5

Compliance with the requirements of:

Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU,

RoHS Directive 2011/65/EU.

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1.

If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 443 to 454.

Electrical data		Utilization category			
without connector	Thermal current (I_{th}):	10 A	Alternating current: AC15 (50÷60 Hz)		
	Rated insulation voltage (U_i):	500 Vac 600 Vdc	U_e (V)	250	400
	Rated impulse withstand voltage (U_{imp}):	400 Vac 500 Vdc (contact blocks 20, 21, 22, 33, 34)	I_e (A)	6	4
		6 kV			1
with M12 connector, 4 and 5-pole		4 kV (contact blocks 20, 21, 22, 33, 34)	Direct current: DC13		
	Conditional short circuit current:	1000 A acc. to EN 60947-5-1	U_e (V)	24	125
	Protection against short circuits:	type aM fuse 10 A 500 V	I_e (A)	3	0.55
	Pollution degree:	3			0.3
with M12 connector, 8-pole	Thermal current (I_{th}):	4 A	Alternating current: AC15 (50÷60 Hz)		
	Rated insulation voltage (U_i):	250 Vac 300 Vdc	U_e (V)	24	120
	Protection against short circuits:	type gG fuse 4 A 500 V	I_e (A)	4	4
	Pollution degree:	3	Direct current: DC13		
with M12 connector, 8-pole			U_e (V)	24	125
	Conditional short circuit current:		I_e (A)	3	0.55
	Protection against short circuits:				0.3
	Pollution degree:				

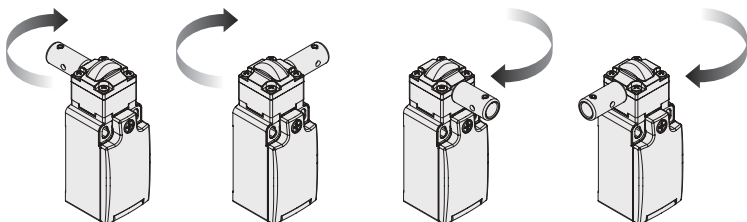


Description



These safety switches are designed to monitor gates or guards that safeguard dangerous parts of machines without inertia. They are very sensitive, open the contacts after few degrees of rotation and immediately send the stop signal. The head, which can be turned in 90° steps, enables installation in multiple positions. Available with technopolymer or metal housings, with protection degree IP67. The special design allows it to be used even under operating conditions in which dust and dirt could inhibit the operation of normal safety switches with separate actuator.

Head with variable orientation



For all switches, the head can be adjusted in 90° steps after removing the four fastening screws. This allows you to use the same switch on both right- and left-facing door fronts.

Protection degrees IP67 and IP69K

IP69K
IP67

These devices are designed to be used under the toughest environmental conditions, and they pass the IP67 immersion test according to EN 60529. They can therefore be used in all environments where the maximum degree of protection is required for the housing.

Due to their special design, these devices are suitable for use in equipment subjected to cleaning with high pressure hot water jets. These devices meet the IP69K test requirements according to ISO 20653 (water jets with 100 bar and 80°C).

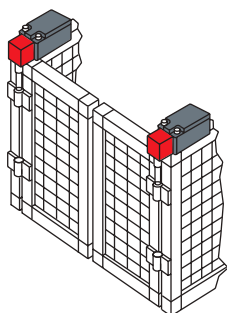
Extended temperature range

-40°C

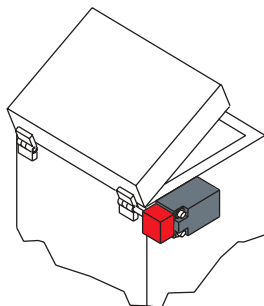
These devices are also available in a special version suitable for an ambient operating temperature range from -40°C up to +80°C.

They can therefore be used for applications in cold stores, sterilisers and other equipment with low temperature environments. The special materials used to produce these versions retain their characteristics even under these conditions, thereby expanding the installation possibilities.

Application examples



Safety switches for hinges, mounting on double door



Safety switch for hinges, mounting outside the safety guard

Adjustable switching point



When installing the device, the contact switching point can be adjusted over the entire 360° range. By fixing the stud screw, it is possible to check the correct setting of the activation angle and quickly and easily adjust it if necessary. Once adjustment is complete, you can render the device tamper-proof against commonly used tools using the supplied lock pin.

Features approved by IMQ

Rated insulation voltage (Ui):	500 Vac 400 Vac (for contact blocks 2, 11, 12, 20, 21, 22, 28, 29, 30, 37, 33, 34)
Conventional free air thermal current (Ith):	10 A
Protection against short circuits:	type aM fuse 10 A 500 V
Rated impulse withstand voltage (U _{imp}):	6 kV 4 kV (for contact blocks 20, 21, 22, 28, 29, 30, 33, 34)
Protection degree of the housing:	IP67
MV terminals (screw terminals)	3
Pollution degree:	AC15
Utilization category:	400 Vac (50 Hz)
Operating voltage (Ue):	3 A
Operating current (Ie):	
Forms of the contact element:	Za, Za+Za, X+X, Zb, Y+Y, Y+Y+X, Y+Y+Y, Y+X+X, Y, X.
Positive opening of contacts on contact blocks	5, 6, 7, 8, 9, 11, 13, 14, 16, 17, 18, 19, 20, 21, 22, 28, 29, 30, 33, 34, 37, 38, 39, 66.
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.

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:	FR: Types 1, 4X FM, FX, FZ, FK: Types 1, 4X, 12, 13
Use 60 or 75 °C copper (Cu) conductor and wire size range 12, 14 AWG, stranded or solid. The terminal tightening torque of 7.1 lb in (0.8 Nm).	
For FR, FX, FK series: 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.

Contact type:
R = snap action
L = slow action
LO = slow action
 make before
 break
LS = slow action
 shifted

Contact blocks

		Technopolymer housing	Technopolymer housing	Technopolymer housing
5	R	FR 596-M2 → 1NO+1NC	FX 596-M2 → 1NO+1NC	/
6	L	FR 696-M2 → 1NO+1NC	FX 696-M2 → 1NO+1NC	/
7	LO	FR 796-M2 → 1NO+1NC	FX 796-M2 → 1NO+1NC	/
9	L	FR 996-M2 → 2NC	FX 996-M2 → 2NC	/
14	LS	FR 1496-M2 → 2NC	FX 1496-M2 → 2NC	/
18	L	FR 1896-M2 → 1NO+1NC	FX 1896-M2 → 1NO+1NC	/
20	L	FR 2096-M2 → 1NO+2NC	FX 2096-M2 → 1NO+2NC	/
21	L	FR 2196-M2 → 3NC	FX 2196-M2 → 3NC	/
22	L	FR 2296-M2 → 2NO+1NC	FX 2296-M2 → 2NO+1NC	/
33	L	FR 3396-M2 → 1NO+1NC	FX 3396-M2 → 1NO+1NC	FK 3396-M2 → 1NO+1NC
34	L	FR 3496-M2 → 2NC	FX 3496-M2 → 2NC	FK 3496-M2 → 2NC
66	L	FR 6696-M2 → 1NC	FX 6696-M2 → 1NC	/
Actuating force		0.15 Nm (0.4 Nm →)	0.15 Nm (0.4 Nm →)	0.15 Nm (0.4 Nm →)
Travel diagrams		page 446 - group 9	page 446 - group 9	page 446 - group 9

Contact type:
R = snap action
L = slow action
LO = slow action
 make before
 break
LS = slow action
 shifted

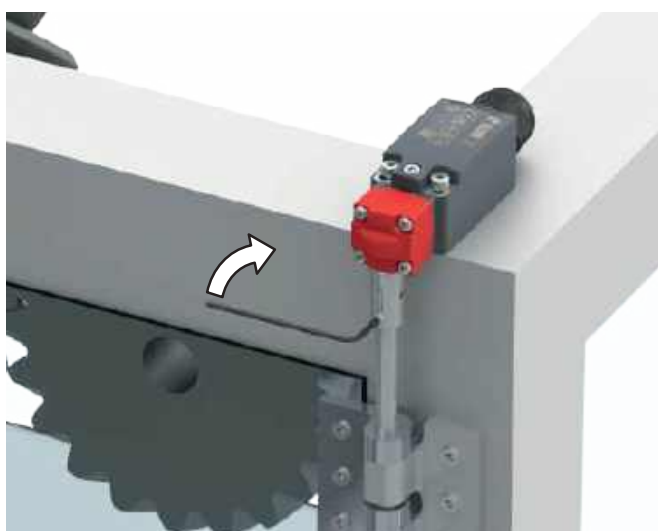
Contact blocks

		Metal housing	Metal housing
5	R	FM 596-M2 → 1NO+1NC	FZ 596-M2 → 1NO+1NC
6	L	FM 696-M2 → 1NO+1NC	FZ 696-M2 → 1NO+1NC
7	LO	FM 796-M2 → 1NO+1NC	FZ 796-M2 → 1NO+1NC
9	L	FM 996-M2 → 2NC	FZ 996-M2 → 2NC
14	LS	FM 1496-M2 → 2NC	FZ 1496-M2 → 2NC
18	L	FM 1896-M2 → 1NO+1NC	FZ 1896-M2 → 1NO+1NC
20	L	FM 2096-M2 → 1NO+2NC	FZ 2096-M2 → 1NO+2NC
21	L	FM 2196-M2 → 3NC	FZ 2196-M2 → 3NC
22	L	FM 2296-M2 → 2NO+1NC	FZ 2296-M2 → 2NO+1NC
33	L	FM 3396-M2 → 1NO+1NC	FZ 3396-M2 → 1NO+1NC
34	L	FM 3496-M2 → 2NC	FZ 3496-M2 → 2NC
66	L	FM 6696-M2 → 1NC	FZ 6696-M2 → 1NC
Actuating force		0.15 Nm (0.4 Nm →)	0.15 Nm (0.4 Nm →)
Travel diagrams		page 446 - group 9	page 446 - group 9

Dimensional drawings for actuators

Option	Drawing
L5	
L6	
L9	
L16	

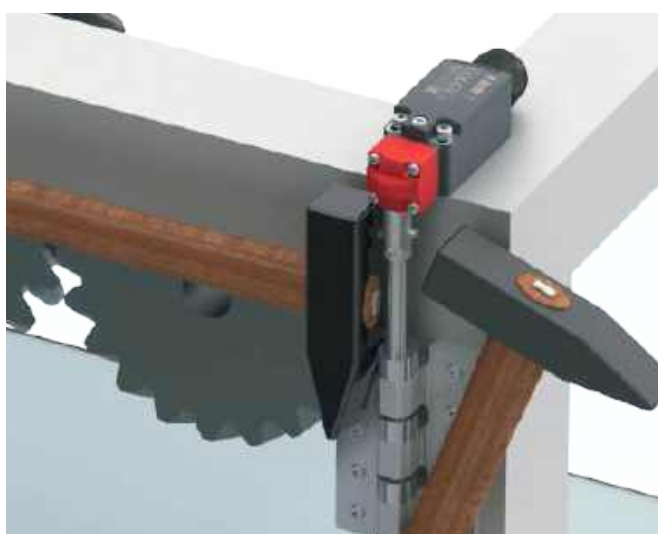
Adjustment of the switching point



Temporary locking of the actuator (stud screw provided).



Verify the switching point according to EN ISO 13857 and recalibrate if necessary.



Pin the switch (pin is provided).

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Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>