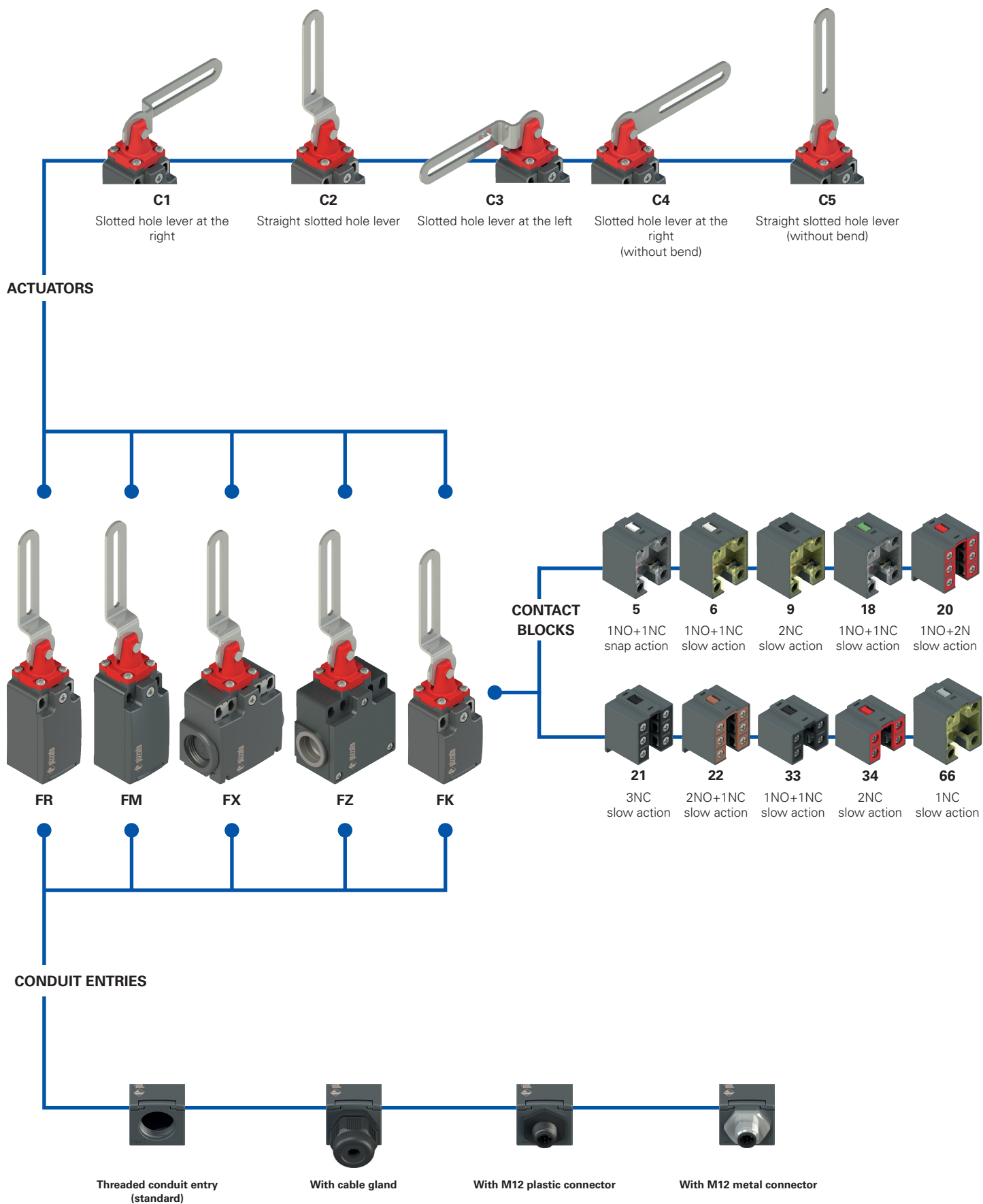


Selection diagram





## Code structure

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

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**FR 18C1-GM2K70T6**

Housing	
<b>FR</b>	technopolymer, one conduit entry
<b>FM</b>	metal, one conduit entry
<b>FX</b>	technopolymer, two conduit entries
<b>FZ</b>	metal, two conduit entries

Contact block	
<b>5</b>	1NO+1NC, snap action
<b>6</b>	1NO+1NC, slow action
<b>9</b>	2NC, slow action
<b>18</b>	1NO+1NC, slow action
<b>20</b>	1NO+2NC, slow action
<b>21</b>	3NC, slow action
<b>22</b>	2NO+1NC, slow action
<b>33</b>	1NO+1NC, slow action
<b>34</b>	2NC, slow action
<b>66</b>	1NC, slow action

Actuators	
<b>C1</b>	slotted hole lever at the right
<b>C2</b>	straight slotted hole lever
<b>C3</b>	slotted hole lever at the left
<b>C4</b>	slotted hole lever at the right (without bend)
<b>C5</b>	straight slotted hole lever (without bend)

Ambient temperature	
	-25°C ... +80°C (standard)
<b>T6</b>	-40°C ... +80°C

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

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

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

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

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**FK 33C1-GM2K24T6**

Housing	
<b>FK</b>	technopolymer, one conduit entry

Contact blocks	
<b>33</b>	1NO+1NC, slow action
<b>34</b>	2NC, slow action

Actuators	
<b>C1</b>	slotted hole lever at the right
<b>C2</b>	straight slotted hole lever
<b>C3</b>	slotted hole lever at the left
<b>C4</b>	slotted hole lever at the right (without bend)
<b>C5</b>	straight slotted hole lever (without bend)

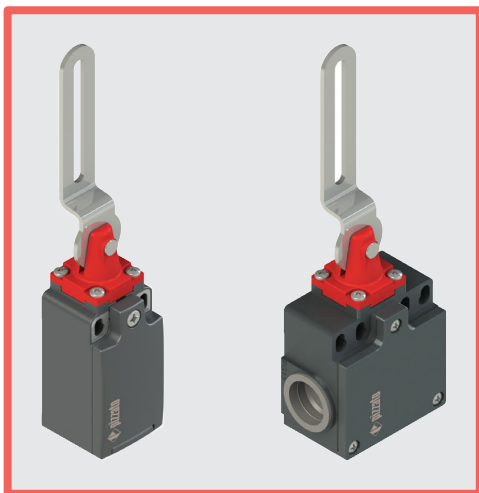
Ambient temperature	
	-25°C ... +80°C (standard)
<b>T6</b>	-40°C ... +80°C

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

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

Threaded conduit entry	
<b>M2</b>	M20x1.5 (standard)
	PG 11

Contact type	
	silver contacts (standard)
<b>G</b>	silver contacts with 1 µm gold coating



### Main features

- Metal housing or technopolymer housing, from one to two conduit entries
- Protection degree IP67
- 10 contact blocks available
- Versions with M12 connector
- Versions with gold-plated silver contacts

### 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: M16x1.5 (standard)

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

FZ series: two 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:

$B_{10D}$ : 2,000,000 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

	Electrical data	Utilization category
without connector	Thermal current ( $I_{th}$ ): 10 A Rated insulation voltage (U): 500 Vac 600 Vdc 400 Vac 500 Vdc (contact blocks 20, 21, 22, 33, 34) Rated impulse withstand voltage ( $U_{imp}$ ): 6 kV 4 kV (contact blocks 20, 21, 22, 33, 34) Conditional short circuit current: 1000 A acc. to EN 60947-5-1 Protection against short circuits: type aM fuse 10 A 500 V Pollution degree: 3	Alternating current: AC15 (50÷60 Hz) $U_e$ (V) 250 400 500 $I_e$ (A) 6 4 1 Direct current: DC13 $U_e$ (V) 24 125 250 $I_e$ (A) 3 0.55 0.3
with M12 connector, 4 and 5-pole	Thermal current ( $I_{th}$ ): 4 A Rated insulation voltage (U): 250 Vac 300 Vdc Protection against short circuits: type gG fuse 4 A 500 V Pollution degree: 3	Alternating current: AC15 (50÷60 Hz) $U_e$ (V) 24 120 250 $I_e$ (A) 4 4 4 Direct current: DC13 $U_e$ (V) 24 125 250 $I_e$ (A) 3 0.55 0.3
with M12 connector, 8-pole	Thermal current ( $I_{th}$ ): 2 A Rated insulation voltage (U): 30 Vac 36 Vdc Protection against short circuits: type gG fuse 2 A 500 V Pollution degree: 3	Alternating current: AC15 (50÷60 Hz) $U_e$ (V) 24 $I_e$ (A) 2 Direct current: DC13 $U_e$ (V) 24 $I_e$ (A) 2

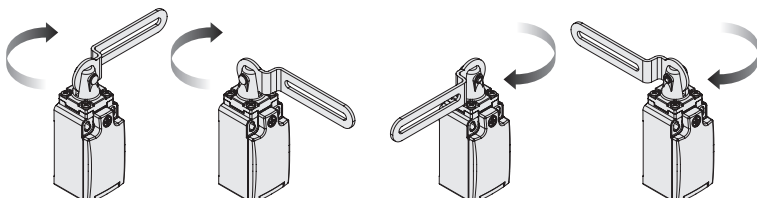


## Description



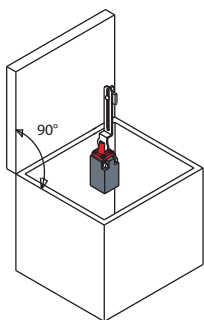
These safety switches are used to control gates or guards with hinges protecting dangerous parts of machines without inertia. Easy to install, they do not need the interaction with the hinge of the guard. They are very sensitive, open the contacts after few degrees of rotation and immediately send the stop signal.

## Head with variable orientation

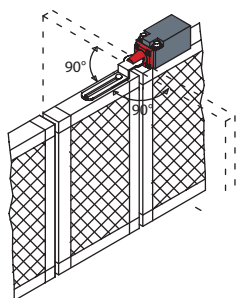


For all switches, the head can be adjusted in 90° steps after removing the four fastening screws. This allows you to use the same switch on both right- and left-facing door fronts.

## Application examples



Safety switch with slotted hole lever, mounting inside the safety guard



Safety switch with slotted hole lever, mounting on guards which open up to 180°

## 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.

## Features approved by IMQ

Rated insulation voltage (U <sub>i</sub> ):	500 Vac 400 Vac (for contact blocks 2, 11, 12, 20, 21, 22, 28, 29, 30, 37, 33, 34)
Conventional free air thermal current (I <sub>th</sub> ):	10 A
Protection against short circuits:	type aM fuse 10 A 500 V
Rated impulse withstand voltage (U <sub>imp</sub> ):	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:	3
Utilization category:	AC15
Operating voltage (U <sub>e</sub> ):	400 Vac (50 Hz)
Operating current (I <sub>e</sub> ):	3 A
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.

# Safety switches with slotted hole lever

	Technopolymer housing		Technopolymer housing		Technopolymer housing							
<p>Contact type:</p> <p><b>R</b> = snap action  <b>L</b> = slow action  <b>LA</b> = slow action close</p>												
Contact blocks	5	<b>R</b> FR 5C1-M2	⊕	1NO+1NC	5	<b>R</b> FR 5C2-M2	⊕	1NO+1NC	5	<b>R</b> FR 5C3-M2	⊕	1NO+1NC
	6	<b>L</b> FR 6C1-M2	⊕	1NO+1NC	6	<b>L</b> FR 6C2-M2	⊕	1NO+1NC	6	<b>L</b> FR 6C3-M2	⊕	1NO+1NC
	9	<b>L</b> FR 9C1-M2	⊕	2NC	9	<b>L</b> FR 9C2-M2	⊕	2NC	9	<b>L</b> FR 9C3-M2	⊕	2NC
	18	<b>LA</b> FR 18C1-M2	⊕	1NO+1NC	18	<b>LA</b> FR 18C2-M2	⊕	1NO+1NC	18	<b>LA</b> FR 18C3-M2	⊕	1NO+1NC
	20	<b>L</b> FR 20C1-M2	⊕	1NO+2NC	20	<b>L</b> FR 20C2-M2	⊕	1NO+2NC	20	<b>L</b> FR 20C3-M2	⊕	1NO+2NC
	21	<b>L</b> FR 21C1-M2	⊕	3NC	21	<b>L</b> FR 21C2-M2	⊕	3NC	21	<b>L</b> FR 21C3-M2	⊕	3NC
	22	<b>L</b> FR 22C1-M2	⊕	2NO+1NC	22	<b>L</b> FR 22C2-M2	⊕	2NO+1NC	22	<b>L</b> FR 22C3-M2	⊕	2NO+1NC
	33	<b>L</b> FR 33C1-M2	⊕	1NO+1NC	33	<b>L</b> FR 33C2-M2	⊕	1NO+1NC	33	<b>L</b> FR 33C3-M2	⊕	1NO+1NC
	34	<b>L</b> FR 34C1-M2	⊕	2NC	34	<b>L</b> FR 34C2-M2	⊕	2NC	34	<b>L</b> FR 34C3-M2	⊕	2NC
	66	<b>L</b> FR 66C1-M2	⊕	1NC	66	<b>L</b> FR 66C2-M2	⊕	1NC	66	<b>L</b> FR 66C3-M2	⊕	1NC
Actuating force	0.11 Nm (0.15 Nm ⊕)				0.11 Nm (0.15 Nm ⊕)				0.11 Nm (0.15 Nm ⊕)			
Travel diagrams	page 446 - group 10				page 446 - group 11				page 446 - group 10			

	Technopolymer housing		Technopolymer housing					
<p>Contact type:</p> <p><b>R</b> = snap action  <b>L</b> = slow action  <b>LA</b> = slow action close</p>								
Contact block	5	<b>R</b> FR 5C4-M2	⊕	1NO+1NC	5	<b>R</b> FR 5C5-M2	⊕	1NO+1NC
	6	<b>L</b> FR 6C4-M2	⊕	1NO+1NC	6	<b>L</b> FR 6C5-M2	⊕	1NO+1NC
	9	<b>L</b> FR 9C4-M2	⊕	2NC	9	<b>L</b> FR 9C5-M2	⊕	2NC
	18	<b>LA</b> FR 18C4-M2	⊕	1NO+1NC	18	<b>LA</b> FR 18C5-M2	⊕	1NO+1NC
	20	<b>L</b> FR 20C4-M2	⊕	1NO+2NC	20	<b>L</b> FR 20C5-M2	⊕	1NO+2NC
	21	<b>L</b> FR 21C4-M2	⊕	3NC	21	<b>L</b> FR 21C5-M2	⊕	3NC
	22	<b>L</b> FR 22C4-M2	⊕	2NO+1NC	22	<b>L</b> FR 22C5-M2	⊕	2NO+1NC
	33	<b>L</b> FR 33C4-M2	⊕	1NO+1NC	33	<b>L</b> FR 33C5-M2	⊕	1NO+1NC
	34	<b>L</b> FR 34C4-M2	⊕	2NC	34	<b>L</b> FR 34C5-M2	⊕	2NC
	66	<b>L</b> FR 66C4-M2	⊕	1NC	66	<b>L</b> FR 66C5-M2	⊕	1NC
Actuating force	0.11 Nm (0.15 Nm ⊕)				0.11 Nm (0.15 Nm ⊕)			
Travel diagrams	page 446 - group 10				page 446 - group 11			



		Metal housing	Metal housing	Metal housing			
Contact type:		<p><b>R</b> = snap action  <b>L</b> = slow action  <b>LA</b> = slow action close</p>					
Contact block							
5	<b>R</b>	FM 5C1-M2	➔ 1NO+1NC	FM 5C2-M2	➔ 1NO+1NC	FM 5C3-M2	➔ 1NO+1NC
6	<b>L</b>	FM 6C1-M2	➔ 1NO+1NC	FM 6C2-M2	➔ 1NO+1NC	FM 6C3-M2	➔ 1NO+1NC
9	<b>L</b>	FM 9C1-M2	➔ 2NC	FM 9C2-M2	➔ 2NC	FM 9C3-M2	➔ 2NC
18	<b>LA</b>	FM 18C1-M2	➔ 1NO+1NC	FM 18C2-M2	➔ 1NO+1NC	FM 18C3-M2	➔ 1NO+1NC
20	<b>L</b>	FM 20C1-M2	➔ 1NO+2NC	FM 20C2-M2	➔ 1NO+2NC	FM 20C3-M2	➔ 1NO+2NC
21	<b>L</b>	FM 21C1-M2	➔ 3NC	FM 21C2-M2	➔ 3NC	FM 21C3-M2	➔ 3NC
22	<b>L</b>	FM 22C1-M2	➔ 2NO+1NC	FM 22C2-M2	➔ 2NO+1NC	FM 22C3-M2	➔ 2NO+1NC
33	<b>L</b>	FM 33C1-M2	➔ 1NO+1NC	FM 33C2-M2	➔ 1NO+1NC	FM 33C3-M2	➔ 1NO+1NC
34	<b>L</b>	FM 34C1-M2	➔ 2NC	FM 34C2-M2	➔ 2NC	FM 34C3-M2	➔ 2NC
66	<b>L</b>	FM 66C1-M2	➔ 1NC	FM 66C2-M2	➔ 1NC	FM 66C3-M2	➔ 1NC
Actuating force		0.11 Nm (0.15 Nm ➔)		0.11 Nm (0.15 Nm ➔)		0.11 Nm (0.15 Nm ➔)	
Travel diagrams		page 446 - group 10		page 446 - group 11		page 446 - group 10	

		Metal housing	Metal housing		
Contact type:		<p><b>R</b> = snap action  <b>L</b> = slow action  <b>LA</b> = slow action close</p>			
Contact block					
5	<b>R</b>	FM 5C4-M2	➔ 1NO+1NC	FM 5C5-M2	➔ 1NO+1NC
6	<b>L</b>	FM 6C4-M2	➔ 1NO+1NC	FM 6C5-M2	➔ 1NO+1NC
9	<b>L</b>	FM 9C4-M2	➔ 2NC	FM 9C5-M2	➔ 2NC
18	<b>LA</b>	FM 18C4-M2	➔ 1NO+1NC	FM 18C5-M2	➔ 1NO+1NC
20	<b>L</b>	FM 20C4-M2	➔ 1NO+2NC	FM 20C5-M2	➔ 1NO+2NC
21	<b>L</b>	FM 21C4-M2	➔ 3NC	FM 21C5-M2	➔ 3NC
22	<b>L</b>	FM 22C4-M2	➔ 2NO+1NC	FM 22C5-M2	➔ 2NO+1NC
33	<b>L</b>	FM 33C4-M2	➔ 1NO+1NC	FM 33C5-M2	➔ 1NO+1NC
34	<b>L</b>	FM 34C4-M2	➔ 2NC	FM 34C5-M2	➔ 2NC
66	<b>L</b>	FM 66C4-M2	➔ 1NC	FM 66C5-M2	➔ 1NC
Actuating force		0.11 Nm (0.15 Nm ➔)		0.11 Nm (0.15 Nm ➔)	
Travel diagrams		page 446 - group 10		page 446 - group 11	

# Safety switches with slotted hole lever

Contact type:

- R** = snap action
- L** = slow action
- LA** = slow action close

	Technopolymer housing		Technopolymer housing		Technopolymer housing							
Contact block												
5	<b>R</b>	FX 5C1-M2	↔	1NO+1NC	↔	FX 5C2-M2	↔	1NO+1NC	↔	FX 5C3-M2	↔	1NO+1NC
6	<b>L</b>	FX 6C1-M2	↔	1NO+1NC	↔	FX 6C2-M2	↔	1NO+1NC	↔	FX 6C3-M2	↔	1NO+1NC
9	<b>L</b>	FX 9C1-M2	↔	2NC	↔	FX 9C2-M2	↔	2NC	↔	FX 9C3-M2	↔	2NC
18	<b>LA</b>	FX 18C1-M2	↔	1NO+1NC	↔	FX 18C2-M2	↔	1NO+1NC	↔	FX 18C3-M2	↔	1NO+1NC
20	<b>L</b>	FX 20C1-M2	↔	1NO+2NC	↔	FX 20C2-M2	↔	1NO+2NC	↔	FX 20C3-M2	↔	1NO+2NC
21	<b>L</b>	FX 21C1-M2	↔	3NC	↔	FX 21C2-M2	↔	3NC	↔	FX 21C3-M2	↔	3NC
22	<b>L</b>	FX 22C1-M2	↔	2NO+1NC	↔	FX 22C2-M2	↔	2NO+1NC	↔	FX 22C3-M2	↔	2NO+1NC
33	<b>L</b>	FX 33C1-M2	↔	1NO+1NC	↔	FX 33C2-M2	↔	1NO+1NC	↔	FX 33C3-M2	↔	1NO+1NC
34	<b>L</b>	FX 34C1-M2	↔	2NC	↔	FX 34C2-M2	↔	2NC	↔	FX 34C3-M2	↔	2NC
66	<b>L</b>	FX 66C1-M2	↔	1NC	↔	FX 66C2-M2	↔	1NC	↔	FX 66C3-M2	↔	1NC
Actuating force	0.11 Nm (0.15 Nm ↔)		0.11 Nm (0.15 Nm ↔)		0.11 Nm (0.15 Nm ↔)							
Travel diagrams	page 446 - group 10		page 446 - group 11		page 446 - group 10							

Contact type:

- R** = snap action
- L** = slow action
- LA** = slow action close

	Technopolymer housing		Technopolymer housing					
Contact block								
5	<b>R</b>	FX 5C4-M2	↔	1NO+1NC	↔	FX 5C5-M2	↔	1NO+1NC
6	<b>L</b>	FX 6C4-M2	↔	1NO+1NC	↔	FX 6C5-M2	↔	1NO+1NC
9	<b>L</b>	FX 9C4-M2	↔	2NC	↔	FX 9C5-M2	↔	2NC
18	<b>LA</b>	FX 18C4-M2	↔	1NO+1NC	↔	FX 18C5-M2	↔	1NO+1NC
20	<b>L</b>	FX 20C4-M2	↔	1NO+2NC	↔	FX 20C5-M2	↔	1NO+2NC
21	<b>L</b>	FX 21C4-M2	↔	3NC	↔	FX 21C5-M2	↔	3NC
22	<b>L</b>	FX 22C4-M2	↔	2NO+1NC	↔	FX 22C5-M2	↔	2NO+1NC
33	<b>L</b>	FX 33C4-M2	↔	1NO+1NC	↔	FX 33C5-M2	↔	1NO+1NC
34	<b>L</b>	FX 34C4-M2	↔	2NC	↔	FX 34C5-M2	↔	2NC
66	<b>L</b>	FX 66C4-M2	↔	1NC	↔	FX 66C5-M2	↔	1NC
Actuating force	0.11 Nm (0.15 Nm ↔)		0.11 Nm (0.15 Nm ↔)					
Travel diagrams	page 446 - group 10		page 446 - group 11					





		Metal housing	Metal housing	Metal housing			
Contact type:		<p><b>R</b> = snap action  <b>L</b> = slow action  <b>LA</b> = slow action close</p>					
Contact block							
5	<b>R</b>	FZ 5C1-M2	➔ 1NO+1NC	FZ 5C2-M2	➔ 1NO+1NC	FZ 5C3-M2	➔ 1NO+1NC
6	<b>L</b>	FZ 6C1-M2	➔ 1NO+1NC	FZ 6C2-M2	➔ 1NO+1NC	FZ 6C3-M2	➔ 1NO+1NC
9	<b>L</b>	FZ 9C1-M2	➔ 2NC	FZ 9C2-M2	➔ 2NC	FZ 9C3-M2	➔ 2NC
18	<b>LA</b>	FZ 18C1-M2	➔ 1NO+1NC	FZ 18C2-M2	➔ 1NO+1NC	FZ 18C3-M2	➔ 1NO+1NC
20	<b>L</b>	FZ 20C1-M2	➔ 1NO+2NC	FZ 20C2-M2	➔ 1NO+2NC	FZ 20C3-M2	➔ 1NO+2NC
21	<b>L</b>	FZ 21C1-M2	➔ 3NC	FZ 21C2-M2	➔ 3NC	FZ 21C3-M2	➔ 3NC
22	<b>L</b>	FZ 22C1-M2	➔ 2NO+1NC	FZ 22C2-M2	➔ 2NO+1NC	FZ 22C3-M2	➔ 2NO+1NC
33	<b>L</b>	FZ 33C1-M2	➔ 1NO+1NC	FZ 33C2-M2	➔ 1NO+1NC	FZ 33C3-M2	➔ 1NO+1NC
34	<b>L</b>	FZ 34C1-M2	➔ 2NC	FZ 34C2-M2	➔ 2NC	FZ 34C3-M2	➔ 2NC
66	<b>L</b>	FZ 66C1-M2	➔ 1NC	FZ 66C2-M2	➔ 1NC	FZ 66C3-M2	➔ 1NC
Actuating force		0.11 Nm (0.15 Nm ➔)		0.11 Nm (0.15 Nm ➔)		0.11 Nm (0.15 Nm ➔)	
Travel diagrams		page 446 - group 10		page 446 - group 11		page 446 - group 10	

		Metal housing	Metal housing		
Contact type:		<p><b>R</b> = snap action  <b>L</b> = slow action  <b>LA</b> = slow action close</p>			
Contact block					
5	<b>R</b>	FZ 5C4-M2	➔ 1NO+1NC	FZ 5C5-M2	➔ 1NO+1NC
6	<b>L</b>	FZ 6C4-M2	➔ 1NO+1NC	FZ 6C5-M2	➔ 1NO+1NC
9	<b>L</b>	FZ 9C4-M2	➔ 2NC	FZ 9C5-M2	➔ 2NC
18	<b>LA</b>	FZ 18C4-M2	➔ 1NO+1NC	FZ 18C5-M2	➔ 1NO+1NC
20	<b>L</b>	FZ 20C4-M2	➔ 1NO+2NC	FZ 20C5-M2	➔ 1NO+2NC
21	<b>L</b>	FZ 21C4-M2	➔ 3NC	FZ 21C5-M2	➔ 3NC
22	<b>L</b>	FZ 22C4-M2	➔ 2NO+1NC	FZ 22C5-M2	➔ 2NO+1NC
33	<b>L</b>	FZ 33C4-M2	➔ 1NO+1NC	FZ 33C5-M2	➔ 1NO+1NC
34	<b>L</b>	FZ 34C4-M2	➔ 2NC	FZ 34C5-M2	➔ 2NC
66	<b>L</b>	FZ 66C4-M2	➔ 1NC	FZ 66C5-M2	➔ 1NC
Actuating force		0.11 Nm (0.15 Nm ➔)		0.11 Nm (0.15 Nm ➔)	
Travel diagrams		page 446 - group 10		page 446 - group 11	



	Technopolymer housing		Technopolymer housing		Technopolymer housing	
Contact type:						
<input type="checkbox"/> L = slow action						
Contact block						
33 <input type="checkbox"/> L	FK 33C1-M2	↻ 1NO+1NC	FK 33C2-M2	↻ 1NO+1NC	FK 33C3-M2	↻ 1NO+1NC
34 <input type="checkbox"/> L	FK 34C1-M2	↻ 2NC	FK 34C2-M2	↻ 2NC	FK 34C3-M2	↻ 2NC
Actuating force	0.11 Nm (0.15 Nm ↻)		0.11 Nm (0.15 Nm ↻)		0.11 Nm (0.15 Nm ↻)	
Travel diagrams	page 446 - group 10		page 446 - group 11		page 446 - group 10	

	Technopolymer housing		Technopolymer housing	
Contact type:				
<input type="checkbox"/> L = slow action				
Contact block				
33 <input type="checkbox"/> L	FK 33C4-M2	↻ 1NO+1NC	FK 33C5-M2	↻ 1NO+1NC
34 <input type="checkbox"/> L	FK 34C4-M2	↻ 2NC	FK 34C5-M2	↻ 2NC
Actuating force	0.11 Nm (0.15 Nm ↻)		0.11 Nm (0.15 Nm ↻)	
Travel diagrams	page 446 - group 10		page 446 - group 11	

