Selection diagram

5



product option

Code structure











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

FG605 E131787 2007010305230000 RU C-IT.АД35.В.00454

In compliance with standards:

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

Compliance with the requirements of:

Machinery Directive 2006/42/EC and EMC Directive 2014/30/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 chapter utilization requirements from page 313 to page 324.

Electrical data			Utilization category	
without connector	Thermal current (I _{th}): Rated insulation voltage (U _i): Rated impulse withstand voltage (U _{imp}): Conditional short circuit current: Protection against short circuits: Pollution degree:	10 A 500 Vac 600 Vdc 400 Vac 500 Vdc (contact blocks 20, 21, 22, 33, 34) 6 kV 4 kV (contact blocks 20, 21, 22, 33, 34) 1000 A acc. to EN 60947-5-1 type aM fuse 10 A 500 V 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) 6 1.1 0.4	
with M12 connector, 4 or 5-pole	Thermal current (I _{th}): Rated insulation voltage (U _t): Protection against short circuits: Pollution degree:	4 A 250 Vac 300 Vdc type gG fuse 4 A 500 V 3	$\begin{array}{cccc} \mbox{Alternating current: AC15 (50\div60 Hz)} \\ U_e (V) & 24 & 120 & 250 \\ I_e (A) & 4 & 4 & 4 \\ \mbox{Direct current: DC13} \\ U_e (V) & 24 & 125 & 250 \\ I_e (A) & 4 & 1.1 & 0.4 \\ \end{array}$	
with M12 connector 8-pole	Thermal current (I _{th}): Rated insulation voltage (U _i): Protection against short circuits: Pollution degree:	2 A 30 Vac 36 Vdc type gG fuse 2 A 500 V 3	Alternating current: AC15 (50 \div 60 Hz) U (V) 24 I (A) 2 Direct current: DC13 U (V) 24 I (A) 2	



Description



These safety switches are designed to monitor gates or doors 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.

Protection degree IP67

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

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.

Application examples





400 Vac (for contact blocks 20, 21, 22, 33, 34)

Features approved by IMQ 500 Vac

Rated insula	ation voltage	(U _i):	

Conventional free air thermal current (I__): Protection against short circuits:

Rated impulse withstand voltage (U_imp): 6 kV

Protection degree of the housing: MV terminals (screw terminals) Pollution degree: Utilization category: Operating voltage (U):

type aM fuse 10 A 500 V 4 kV (for contact blocks 20, 21, 22, 33, 34) IP67 3 AC15

Operating current (I): 3 A Forms of the contact element: Zb, Y+Y, Y+Y+X, Y+Y+Y, Y+X+X Positive opening contacts on contact blocks 7, 9, 18, 20, 21, 22, 33, 34 In compliance with standards: EN 60947-1, EN 60947-5-1+ A1:2009, fundamental requirements of the Low Voltage Directive 2014/35/EU.

400 Vac (50 Hz)

10 A

Please contact our technical department for the list of approved products

Extended temperature range



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.

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 UL

Utilization categories

Q300 (69 VA, 125-250 Vdc) A600 (720 VA, 120-600 Vac)

Housing features type 1, 4X "indoor use only", 12, 13 For all contact blocks use 60 or 75 °C copper (Cu) conductor, rigid or flexible, wire size 12, 14 AWG. Tightening torque for terminal screws of 7.1 lb in (0.8 Nm)

In compliance with standard: UL 508, CSA 22.2 No.14

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How to read travel diagrams



IMPORTANT:

All values in the diagrams are in degrees

In safety applications, actuate the switch at least up to the positive opening travel shown in the travel diagrams with symbol \bigcirc . 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).

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 11SM2442-T
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