



Main features

- Approvals:
 - Category 2G and M2**
- Metal housing, one conduit entry
- Protection degree IP66
- Versions with gold-plated silver contacts

ATEX markings and quality labels:



 **II 2G Ex ia IIC T6 Gb**
 **I M2 Ex ia I Mb**

Technical data

Housing

Metal housing, baked powder coating
 One threaded conduit entry:
 Protection degree:

M20x1.5
 IP66 according to EN 60529 with
 cable gland having equal or higher
 protection degree

General data

Ambient temperature: -20°C ... +60°C
 Max. actuation frequency: 3600 operating cycles¹/hour
 Mechanical endurance:
 F••••-EX• 10 million operating cycles¹
 F•••93-EX•, F•••78-EX•, F•••8•-EX•, F•••95-EX• 500.000 operating cycles¹
 F•••99-EX•, F•••R2-EX• 250.000 operating cycles¹
 Mounting position: any
 Safety parameters B_{10d}(NC contacts):
 F••••-EX• 20,000,000
 F•••93-EX•, F•••78-EX•, F•••8•-EX 1,000,000
 F•••99-EX•, F•••R2-EX• 500,000
 F•••95-EX• 2,500,000
 Mechanical interlock, not coded: type 1 according to EN ISO 14119
 Tightening torques for installation: see pages 235-246
 (1) One operation cycle means two movements, one to close and one to open contacts, as defined in EN 60947-5-1.

Cable cross section (flexible copper strands)

Contact blocks 20,28:	min.	1 x 0.34 mm ²	(1 x AWG 22)
	max.	2 x 1.5 mm ²	(2 x AWG 16)
Contact block 5:	min.	1 x 0.5 mm ²	(1 x AWG 20)
	max.	2 x 2.5 mm ²	(2 x AWG 14)

In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, EN 50041, IEC 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, IEC 60529, EN 60529, UL 508, CSA 22.2 No.14, IEC 60079-0, EN 60079-0, IEC 60079-11, EN 60079-11.


In conformity with the requirements of:


ATEX Directive 94/9/EC
 Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and
 EMC Directive 2004/108/EC.





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  aside 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 60947-5-1, encl. K, par. 2**. Actuate the switch **at least up to the positive opening travel** shown in the travel diagrams on page 238. Operate the switch **at least with the positive opening force**, indicated between brackets below each article, aside the minimum force value.

 **If not expressly indicated in this chapter, for correct installation and utilization of all articles see chapter utilization requirements from page 235 to page 246.**

Category	Zone	EPL	Approvals	Product code extension
2G	1	Gb	 II 2G Ex ia IIC T6 Gb	-EX7
M2	M2	Mb	 I M2 Ex ia I Mb	
Electrical data				
Maximum current (I _i):			2.1 A	
Maximum voltage (U _i):			30 Vdc	
Conditional short circuit current:			1000 A according to EN 60947-5-1	
Protection against short circuits:			fuse 4 A 250 V type gG	
Pollution degree:			3	
 This type of switches must be used only in intrinsic safety circuits in conformity with standard IEC 60079-11, EN 60079-11  For the correct utilization of the switch please use cable glands suitable for the zone according to the ATEX directive				