

Technical data sheet Safety hinge switch

Part no.: 63000401

S400-M4M12-B

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Circuit diagrams
- Notes



Figure can vary



Technical data

Basic data

Series	S400
--------	------

Functions

Functions	Integration in control circuits up to category 4 in accordance with EN ISO 13849-1 Locking device without guard interlocking according to EN ISO 14119 Mechanical hinge with integrated safety switch
-----------	---

Characteristic parameters

Mission time T_M	20 years, EN ISO 13849-1
B10 _d	2,000,000 number of cycles

Electrical data

Usage category at DC 13	Ue 24 V, Ie 2 A, EN 60947-5-1
Usage category at AC 15	Ue 24 V, Ie 2 A, EN 60947-5-1
Contact allocation	2NC + 1NO
Contact opening	Force-fit
Short circuit protected	500 V, 2 A, type gG, IEC 60269-1

Performance data

Rated insulation voltage 30 V AC, 36 V DC

Conventional thermal current, max. 2 A

Connection

Number of connections	1 Piece(s)
-----------------------	------------

Connection 1

Function	Contact connection
Type of connection	Connector
Thread size	M12
Material	Metal
No. of pins	8 -pin

Mechanical data

Design	Cubic
Dimension (W x H x L)	49 mm x 22.5 mm x 100.6 mm
Housing material	Metal
Metal housing	ZAMAK
Electrical contact material	Silver alloy
Net weight	300 g
Housing color	Silver
Type of fastening	Mounting plate Mounting thread
Side of cable entry	From below (with left installation)
Switch type	Interlock device without guard interlocking, ISO 14119
Switching principle	Slow-action contact
Axial stress	1,500 N·m
Radial stress	1,000 N·m
Torsional stress	25 N·m
Mechanical life time	1,000,000 actuation cycles, IEC 6047-5-1
Actuation frequency, max.	1,200 per hour, IEC 6047-5-1
Internal actuator	Safety switch in hinge, encapsulated
Actuating path (angle) with forced separation	4 N
Actuation angle, max.	180 °
Actuating path (angle) with forced separation	From set switching point

Environmental data

Ambient temperature, operation	-25 ... 80 °C
Degree of contamination	3, EN 60947-1

Certifications

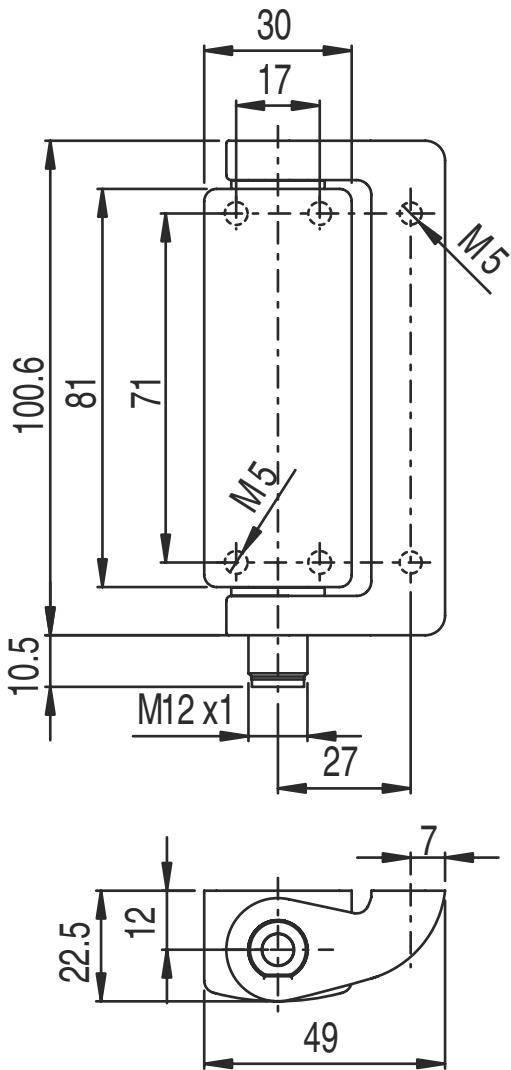
Degree of protection	IP 67 IP 69K
Certifications	c UL US IMQ

Classification

Customs tariff number	85369095
eCl@ss 8.0	27270609
eCl@ss 9.0	27270609
eCl@ss 10.0	27270609
eCl@ss 11.0	27270609
ETIM 5.0	EC002591
ETIM 6.0	EC002591

Dimensioned drawings

All dimensions in millimeters



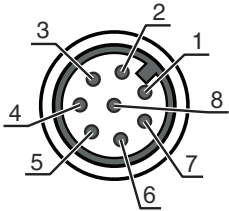
Electrical connection

Connection 1

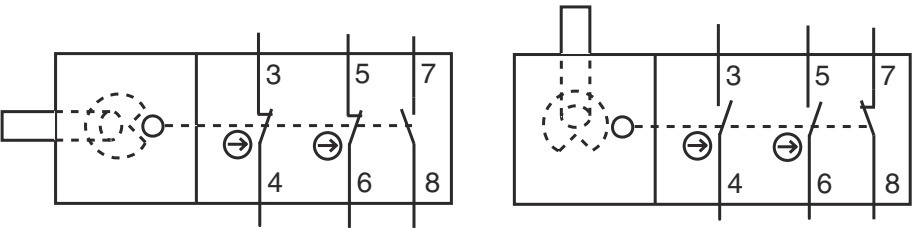
Function	Contact connection
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Electrical connection

Pin	Pin assignment
1	GND
2	n.c.
3	NC(1)
4	NC(1)
5	NC(2)
6	NC(2)
7	NO(1)
8	NO(1)



Circuit diagrams



Notes

**Observe intended use!**



- ⚡ The product may only be put into operation by competent persons.
- ⚡ Only use the product in accordance with its intended use.