

Technical data sheet Safety position switch

Part no.: 63000309

S300-P13C1-M12-SB

Contents

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



Figure can vary



Technical data

Basic data

Series	S300
--------	------

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

Characteristic parameters

Mission time T_M	20 years, EN ISO 13849-1
$B10_d$	40,000,000 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
Contact protection	Protective insulation O

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	Plastic
No. of pins	8 -pin

Mechanical data

Design	Cubic
Dimension (W x H x L)	40 mm x 39 mm x 97 mm
Housing material	Plastic, Glass fiber reinforced (PPS), self-extinguishing
Electrical contact material	Silver alloy
Net weight	165 g
Housing color	Black
Type of fastening	Through-hole mounting
Switch type	Interlock device without guard interlocking, ISO 14119
Switching principle	Slow-action contact
Switching direction	Both sides
	One side
Approach actuation directions	360°
	4 x side (90°)
Approach speed	Depending on actuator used
Mechanical life time	20,000,000 actuation cycles, IEC 60947-5-1 switching cycles
Actuation frequency, max.	3,600 per hour, IEC 60947-5-1
Actuator mount	Long

Environmental data

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

Certifications

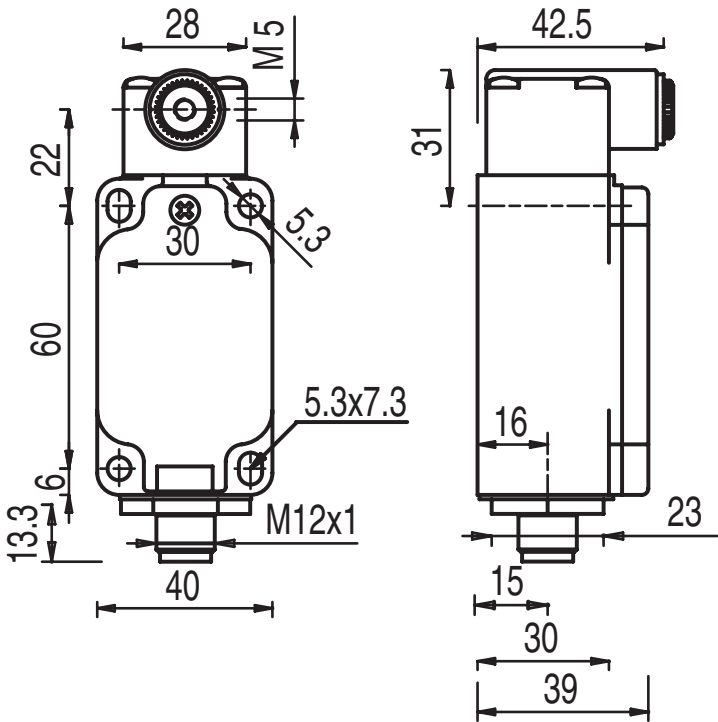
Degree of protection	IP 67
Certifications	c UL US
	IMQ

Classification

Customs tariff number	85369095
eCl@ss 8.0	27272601
eCl@ss 9.0	27272601
ETIM 5.0	EC000030
ETIM 6.0	EC000030

Dimensioned drawings

All dimensions in millimeters

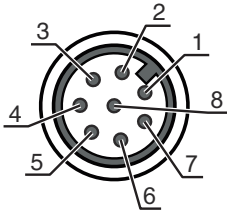


Electrical connection

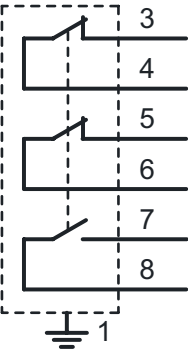
Connection 1

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

Pin	Pin assignment
1	n.c.
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.