



Figure can vary

Part no.: 63000306
S300-P13C1-M20-CB
Safety position switch



Contents

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

Part no.: 63000306 – S300-P13C1-M20-CB – Safety position switch

Technical data

Basic data	
Series	S300
Functions	
Functions	Locking device without guard interlocking according to ISO 14119 Integration in control circuits up to category 4 in accordance with EN ISO 13849
Characteristic parameters	
Mission time T_M	20 years, EN ISO 13849-1
B10d	40,000,000 number of cycles
Electrical data	
Usage category at DC 13	Ue / Ie: 24 V / 6 A, 125 V / 1.1 A, 250 V / 0.4 A, EN 60947-5-1
Usage category at AC 15	Ue / Ie: 250 V / 6 A, 400 V / 4 A, 500 V / 1 A, EN 60947-5-1
Contact allocation	2NC + 1NO
Contact opening	Force-fit
Short circuit protected	500 V, 10 A, type aM, IEC 60269-1
Contact protection	Protective insulation O
Performance data	
Rated insulation voltage	400 V AC, 500 V DC
Conventional thermal current, max.	10 A
Connection	
Number of connections	1 Piece(s)
Number of cable entries	1 Piece(s)
Connection 1	
Type of connection	Terminal
Function	Contact connection
Type of terminal	Screw terminal
No. of pins	6 -pin
Cable properties	
Connection cross sections	1 x 0.34 mm ² to 2 x 1.5 mm ² , wire
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	145 g
Housing color	Black
Type of fastening	Through-hole mounting
Type of cable entry	M20 x 1.5
Switch type	Interlock device without guard interlocking, ISO 14119
Switching principle	Slow-action contact
Switching direction	One side Both sides
Approach actuation directions	360° 4 x side (90°)

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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	Short

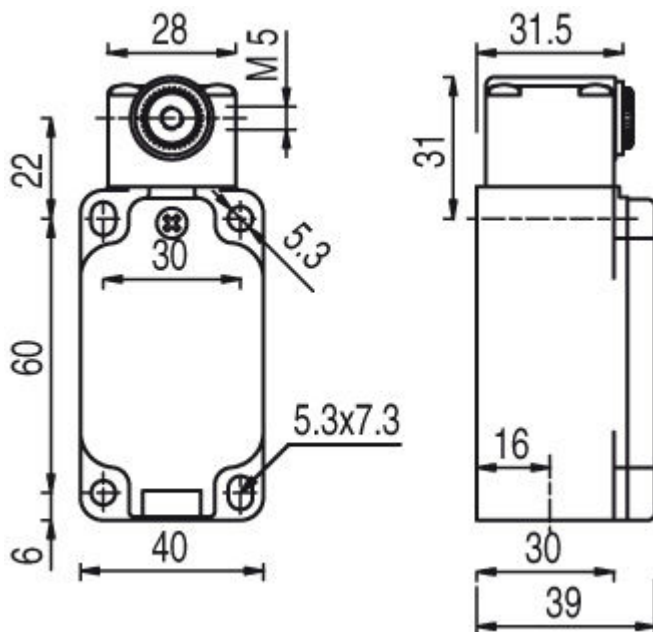
Environmental data	
Ambient temperature, operation	-25 ... 80 °C
Degree of contamination	3, EN 60947-1

Certifications	
Degree of protection	IP 67
Certifications	IMQ c UL US

Classification	
eCl@ss 8.0	27272601
eCl@ss 9.0	27272601
ETIM 5.0	EC000030

Dimensioned drawings

All dimensions in millimeters



Electrical connection

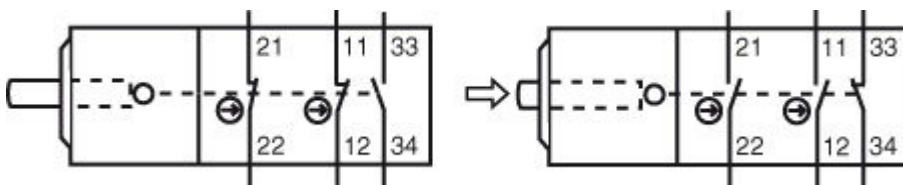
Connection 1	
Type of connection	Terminal
Function	Contact connection
Type of terminal	Screw terminal

Part no.: 63000306 – S300-P13C1-M20-CB – Safety position switch

Connection 1	
No. of pins	6 -pin

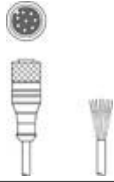
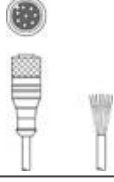

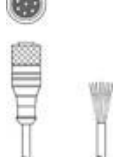
Terminal	Assignment
11	NC(1)
12	NC(1)
21	NC(2)
22	NC(2)
33	NO(1)
34	NO(1)

Circuit diagrams




Accessories

Connection technology - Connection cables


	Part no.	Designation	Article	Description
	50135128	KD S-M12-8A-P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50135129	KD S-M12-8A-P1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR
	50135130	KD S-M12-8A-P1-150	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 15,000 mm Sheathing material: PUR
	50135131	KD S-M12-8A-P1-250	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 25,000 mm Sheathing material: PUR

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Connection technology - Connectors

	Part no.	Designation	Article	Description
	63000845	AC-PLM-8	Built-in plug	Number of conductors: 8 Piece(s) Connection: Connector, M12, Metal, Axial, 8 -pin

Connection technology - Adapters

	Part no.	Designation	Article	Description
	63000843	AC-A-M20-12NPT	Adapter	Design: M20 x 1.5 on 1/2 NPT

Actuator

	Part no.	Designation	Article	Description
	63000881	AC-AL-R	Actuator	Dimensions: 27.5 mm x 20 mm x 40 mm Type of fastening: Through-hole mounting Design: Angled Area of application: Heavy duty Mounting bore holes: 90° to key direction Material: Steel, galvanized, Plastic Functions: Easy installation, quick vertical and axial alignment in just a few steps, Linkage via roller
	63000882	AC-LL-R	Actuator	Dimensions: 14.5 mm x 20 mm Type of fastening: Through-hole mounting Design: Straight Area of application: Heavy duty Mounting bore holes: 90° to key direction Material: Steel, galvanized, Plastic Length: 34 mm ... 93 mm Functions: Easy installation, quick vertical and axial alignment in just a few steps, Linkage via roller
	63000884	AC-LL-R40	Actuator	Dimensions: 14.5 mm x 40 mm Type of fastening: Through-hole mounting Design: Straight Area of application: Heavy duty Mounting bore holes: 90° to key direction Material: Steel, galvanized, Rubber Length: 50 mm ... 103 mm Functions: Easy installation, quick vertical and axial alignment in just a few steps, Linkage via roller
	63000883	AC-PL	Actuator	Dimensions: 9 mm x 14 mm x 80 mm Type of fastening: Through-hole mounting Design: Straight Area of application: Heavy duty Mounting bore holes: 90° to key direction Material: Steel, Porcellan Functions: Easy installation, quick vertical and axial alignment in just a few steps, Linkage via sleeve
	63000880	AC-SL-R	Actuator	Dimensions: 14.5 mm x 20 mm x 49 mm Type of fastening: Through-hole mounting Design: Straight Area of application: Heavy duty Mounting bore holes: 90° to key direction Material: Steel, galvanized, Plastic Functions: Easy installation, quick vertical and axial alignment in just a few steps, Linkage via roller

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.