



Figure can vary

**Part no.: 63000310**  
**S300-P0C1-M20-CB**  
**Safety position switch**



## Contents

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Part no.: 63000310 – S300-P0C1-M20-CB – Safety position switch

## Technical data

<b>Basic data</b>	
Series	S300
<b>Functions</b>	
Functions	Integration in control circuits up to category 4 in accordance with EN ISO 13849 Locking device without guard interlocking according to ISO 14119
<b>Characteristic parameters</b>	
Mission time $T_M$	20 years , EN ISO 13849-1
B10 <sub>d</sub>	40,000,000 number of cycles
<b>Electrical data</b>	
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	1NC + 1NO
Contact opening	Force-fit
Short circuit protected	500 V, 10 A, type aM , IEC 60269-1
Contact protection	Protective insulation O
<b>Performance data</b>	
Rated insulation voltage	400 V AC, 500 V DC
Conventional thermal current, max.	10 A
<b>Connection</b>	
Number of connections	1 Piece(s)
Number of cable entries	1 Piece(s)
<b>Connection 1</b>	
Type of connection	Terminal
Function	Contact connection
Type of terminal	Screw terminal
No. of pins	4 -pin
<b>Cable properties</b>	
Connection cross sections	1 x 0.5 mm <sup>2</sup> to 2 x 2.5 mm <sup>2</sup> , wire
<b>Mechanical data</b>	
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	155 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	Snap-action contact
Switching direction	Both sides One side
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	Long

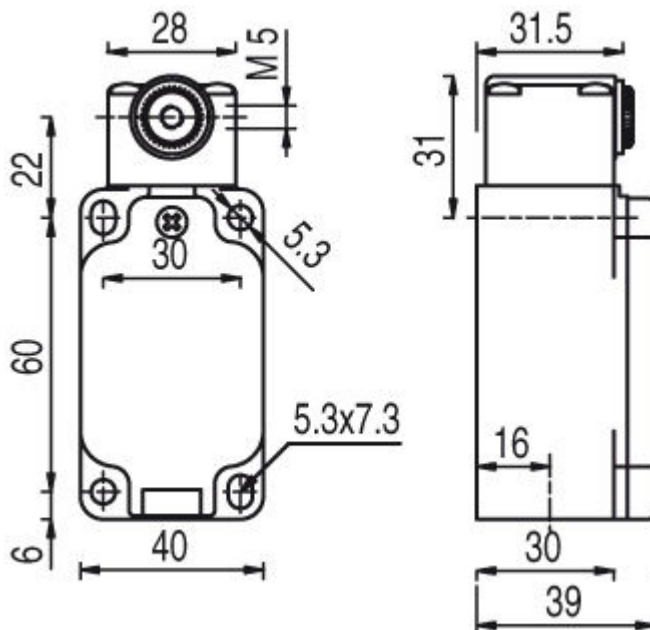
<b>Environmental data</b>	
Ambient temperature, operation	-25 ... 80 °C
Degree of contamination	3 , EN 60947-1

<b>Certifications</b>	
Degree of protection	IP 67
Certifications	c UL US IMQ

<b>Classification</b>	
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

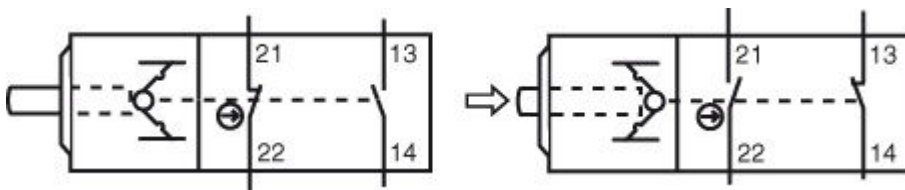


## Electrical connection

Connection 1	
Type of connection	Terminal
Function	Contact connection
Type of terminal	Screw terminal
No. of pins	4 -pin

Terminal	Assignment
21	NC
22	NC
13	NO
14	NO

## 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.