SMS - Safety switch with separated actuator













Applications

- Access protection for operators of machines with dangerous machine parts which move after switching off
- Locking of a machine or an automatic process when the guard is open
- Position monitoring of movable guards in accordance with EN 60947-5-3

Features

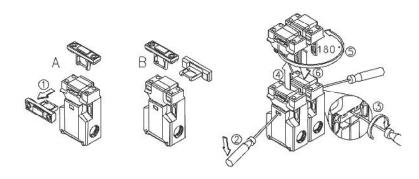
- Flexible use with 2 horizontal or 2 vertical actuating directions
- Protection against simple bypassing in accordance with EN 14119 through multiple coding of the actuator
- Long service life thanks to dust- and water-proof housing and a broad operating temperature range of up to 80 °C.
- Increased extraction force up to 30 N
- Easy installation with adjustment via slots and final fixing via round holes

Function

The mechanical safety switches in the SMS 2000, SMS 3000 and SMS 4000 series are suitable for the reliable position monitoring of movable guards (EN 60947-5-3).

If the associated guard on the machine is opened, the hazardous machine movement is switched off.

The machine is shut down in a hazardous situation by an analysis of the contacts carried out by a suitable basic device in the **safe** RELAY or by one of the **samos**® or **samos**® PRO safety systems.



Simple installation and wiring in each application.

SMS – Safety switch with separated actuator





Applications

- Access protection for operators of machines with dangerous machine parts which move after switching off
- Locking of a machine or an automatic process when the guard is open
- Position monitoring of guard and guard locking

Features

- Flexible use with 4 horizontal or 4 vertical actuating directions
- Slim design for installation on profile systems and where there are difficult space constraints
- Protection against simple bypassing in accordance with EN 1088 through multiple coding of the actuator
- Long service life thanks to dust- and water-proof housing and a broad operating temperature range of up to 80 °C
- Increased extraction force up to 50 N





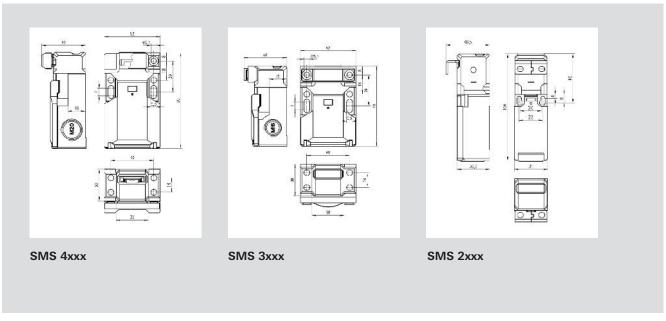


Technical data

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Function			
according EN 14119		Safety switch with separated actuator	
Power supply circuit			
Max. continuous thermal current I _{th}		5 A (contact assignment 1 NC or 2 NC/1 NO)	
		10 A (contact assignment 1 NC/1 NO or 2 NC)	
Application category		AC-15: 230 V, 1.5 A (contact assignment 1 NC or 2 NC/1 NO)	
		AC-15: 230 V, 3 A (contact assignment 1 NC/1 NO or 2 NC)	
Mechanical life		1 x 10 ⁶	
Short-circuit protection	SMS 2xxx / SMS 3xxx	lead fuse 6 A class gL/gG	
	SMS 4xxx	lead fuse 10 A class gL/gG	
Mechanical data			
Approach speed		\leq 0,2 m/s	
Extraction force	SMS 2xxx	10 N (increased extraction force 50 N)	
	SMS 3xxx / SMS 4xxx	10 N (increased extraction force 30 N)	
Dimensions (L x W x H)	SMS 2xxx	100 x 31 x 30,5 mm	
	SMS 3xxx	75 x 52 x 33 mm	
	SMS 4xxx	90 x 52 x 33.5 mm	
Mounting		2 x M5	
Cable entry point	SMS 2xxx	1 x M20 x 1.5	
	SMS 3xxx	3 x M16 x 1.5	
	SMS 4xxx	3 x M20 x 1.5	
General data			
Ambient temperature		-30 - +80 °C	
Wire ranges screw terminals		1 x 0.5 - 1.5 mm ²	
Protection degree according to EN 60529		IP 65	
Weight		0,15 kg	
Standards		EN 60947-1, EN 60947-5-1, EN ISO 13849-1, EN 62061	
Approvals		TÜV, UL, c-CSA-us	

SMS – Safety switch with separated actuator

Dimensions diagramm



Overview of devices | part numbers safety switch

Туре	Actuator*	Contact assignment	Extraction force	Part no.	Std. pack
SMS 3010	Standard actuator	1NC	10 N	R1.320.3010.0	1
SMS 3210	Actuator for increased force	1NC	30 N	R1.320.3210.0	1
SMS 3110	Radius actuator	1NC	10 N	R1.320.3110.0	1
SMS 4040	Standard actuator	1NC/1NO	10 N	R1.320.4040.0	1
SMS 4240	Actuator for increased force	1NC/1NO	30 N	R1.320.4240.0	1
SMS 4140	Radius actuator	1NC/1NO	10 N	R1.320.4140.0	1
SMS 4020	Standard actuator	2NC	10 N	R1.320.4020.0	1
SMS 4220	Actuator for increased force	2NC	30 N	R1.320.4220.0	1
SMS 4120	Radius actuator	2NC	10 N	R1.320.4120.0	1
SMS 4070	Standard actuator	2NC/1NO	10 N	R1.320.4070.0	1
SMS 4270	Actuator for increased force	2NC/1NO	30 N	R1.320.4270.0	1
SMS 4170	Radius actuator	2NC/1NO	10 N	R1.320.4170.0	1
SMS 2040	Standard actuator 2	1NC/1NO	10 N	R1.320.2040.0	1
SMS 2240	Actuator for increased force	1NC/1NO	50 N	R1.320.2240.0	1
SMS 2020	Standard actuator 2	2NC	10 N	R1.320.2020.0	1
SMS 2220	Actuator for increased force	2NC	50 N	R1.320.2220.0	1
SMS 2070	Standard actuator 2	2NC/1NO	10 N	R1.320.2070.0	1
SMS 2270	Actuator for increased force	2NC/1NO	50 N	R1.320.2270.0	1

^{*} The relevant actuator is included in the scope of delivery

SMS - Actuator



SMS 9001

(SMS 3xxx / SMS 4xxx included in the scope of delivery)



SMS 9002



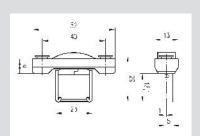
SMS 9003



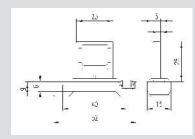
SMS 9004

(SMS 2xxx included in the scope of delivery)

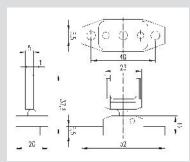
Dimensions diagramm



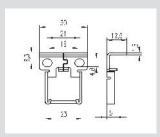
SMS 9001



SMS 9002



SMS 9003



SMS 9004

Overview of devices | part numbers Actuator

Туре	Actuator	Part no.	Std. pack
SMS 9001	Standard actuator	R1.320.9001.0	1
SMS 9002	Actuator for increased force	R1.320.9002.0	1
SMS 9003	Radius actuator	R1.320.9003.0	1
SMS 9004	Standard actuator 2	R1.320.9004.0	1