



sensor PRO – safe signal acquisition

Safety sensors of the **sensor** PRO series ensure effective protection of the people involved in mechanical engineering and system provision. Implementation of standard safety tasks is easy when you have the evaluation devices of **S4000**, **samos**® or **samos**® PRO Series.

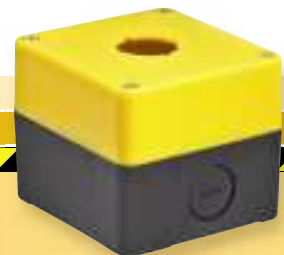
Emergency stop buttons **SNH Series**

The emergency stop buttons of the **SNH series** provide for the safety of man and machine and offer users a practical, robust and reliable design.

The fast and easy installation of the emergency stop buttons saves time and money, and a long durability as well as reliable functionality is guaranteed through the use of high-quality materials.

The emergency stop buttons of the **SNH series** can be used in a wide range of applications across the various sectors.

Emergency stop buttons
SNH Series



Safety switch with guard locking SIN Series

The safety switches in the **SIN series** are used to monitor the position of movable guards and prevent the accidental opening of safety doors or flaps with their integrated guard locking. They are typically used on machines with movements that occur after switching off, where it must be ensured that no person may gain access until the hazardous situation has ended.

Safety switch with separated actuator SMS Series

Safety switches in the **SMS series** are used to monitor movable guards. The safety switches are suitable for the protection of people and processes and are available in three different designs.

Magnetic switches

SMA Series



sensor PRO

Magnetic safety switches SMA Series

Integrated tamper protection

The sensors of the **SMA series** are magnetic safety sensors which are used for the contactless monitoring of protective doors and the detection of safe positions. In addition, they are equipped with integrated manipulation protection and can be used up to IP67.

These magnetic safety sensors are an outstanding choice particularly in applications related to position monitoring of mobile protective facilities which have greater tolerances in door guidance or are subjected to the strong vibrations of machine doors.

Safety switches

SIN + SMS Series



Emergency stop buttons – SNH Series



Applications

- Machine and plant manufacturing
- Elevator systems and escalators
- Building machinery and transport technology

Features

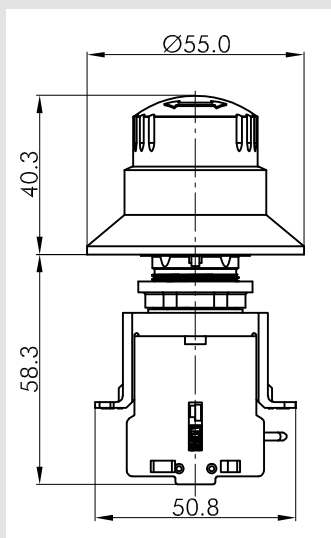
- For applications up to IP69K
- Tamper-proof according to EN 418/EN ISO 13850
- Modular design
- Turn-to-reset
- Integrated illumination
- Optical indication of the switching state
- Up to PL e/Category 4 (EN ISO 13849-1)
- Up to SIL_{CL} 3 (EN 62061)

Function

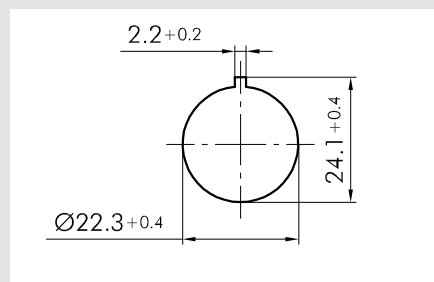
Emergency stop buttons of the SNH series are used on or near machines for the protection of persons. They serve the purpose of switching off / stopping machines and systems to avoid or reduce emerging or existing hazards to persons. Emergency stop buttons of the SNH series are also used to avoid damage to the machine or working material.

- **Modular design** – The emergency stop buttons of the SNH series have a modular design, various actuating elements can be freely combined with the chosen contact design.
- **Failure protection** – The emergency stop buttons of the SNH series have a special failure protection that automatically detects when a contact block is removed from the respective actuating element and then switches off safely.

Dimension diagram





Cut-out dimensions



Emergency stop buttons – SNH Series

Technical data

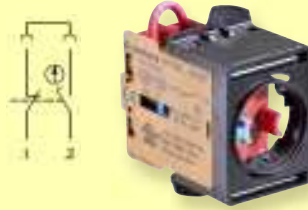
Function	
According to EN 418/EN ISO 13850	Emergency stop button
Actuator	
Housing material	Plastic
Protection degree	IP 65
Operating ambient temperature	-30 – +70 °C (without illumination), -30 – +55 °C (with illumination)
Storage temperature	-50 – +85 °C
Switching cycles	> 50000
Max. torque	2.5 Nm
Installation diameter	22.3 mm
Contact blocks	
Contact type	NC contact NC contact with failure protection NO contact
Contact material	AgNi
Switching principle	Slow-action contact
Actuating travel	6 mm
Mechanical service life	1 x 10 ⁷ switching cycles
Electrical service life	1 x 10 ⁶ switching cycles
Application category	AC15 A600: 250 V, 3A DC13 Q600: 24 V, 2A
Protection class	II
Rated insulation voltage	600 V
Min. Switching voltage	5 V
Min. Switching current	1 mA
Thermal continuous current I _{th}	16 A
Max. through-type thermistor	20 mΩ
Max. bounce time	20 ms
Min. positive opening travel	3 mm
Operating ambient temperature	-30 – +85 °C
Storage temperature	-50 – +85 °C
Connection technology	Screw connection
Conductor cross-section	Max. 2,5 mm ²
Standards	EN 418 /EN ISO 13850
Approvals	TÜV  

Emergency stop buttons – SNH Series

Contact blocks



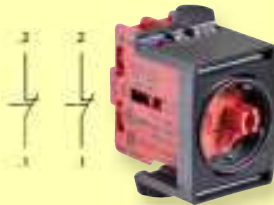
SNH 0001



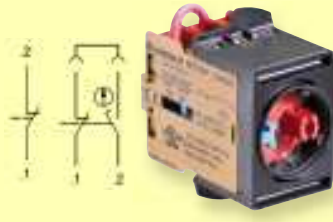
SNH 0002



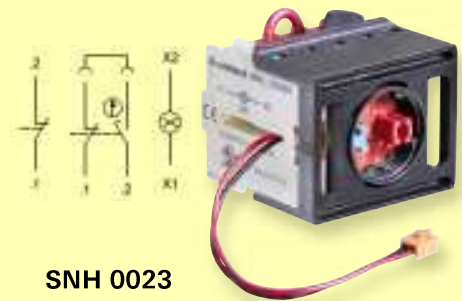
SNH 0003



SNH 0021



SNH 0022



SNH 0023

Actuating elements



SNH 0100

SNH 0400 (with illumination)



SNH 0200



SNH 0300

(up to IP 69K)



SNH 0500

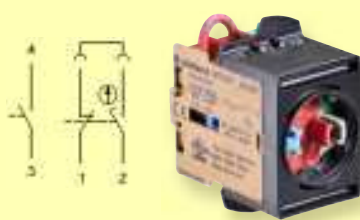


SNH – safe.

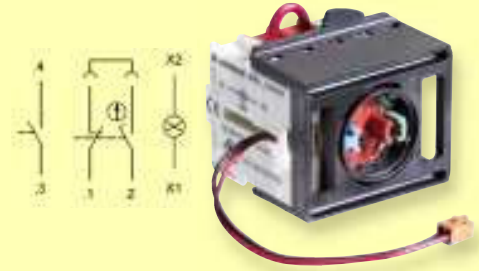
Emergency stop buttons – SNH Series



SNH 0011



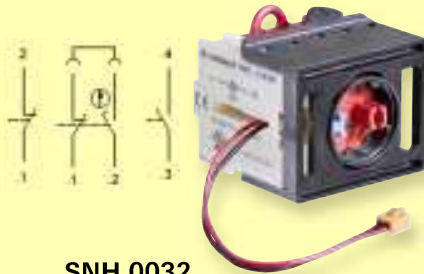
SNH 0012



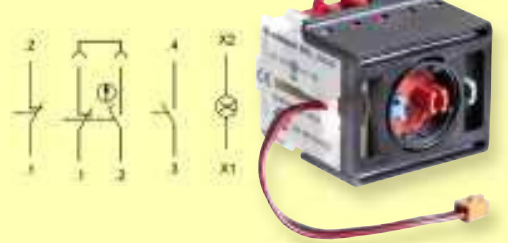
SNH 0013



SNH 0031



SNH 0032



SNH 0033



SNH 0600



SNH 0700

Housing



SNH 6001



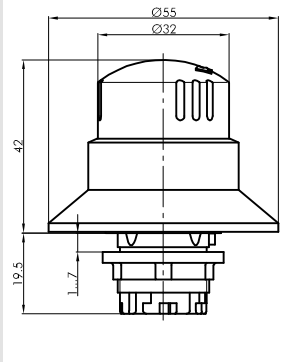
simple. modular.



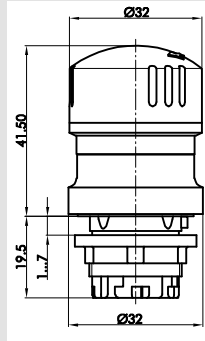
Emergency stop buttons – SNH Series

Dimension diagram

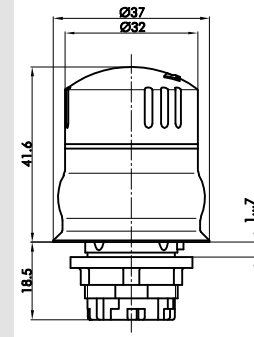
Actuating elements



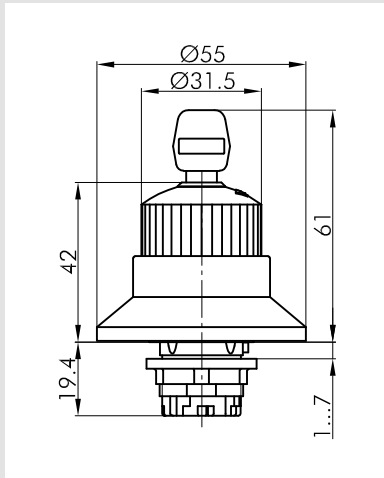
SNH 0100
SNH 0400



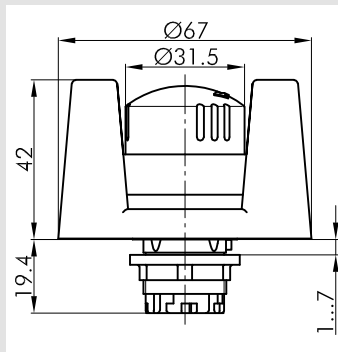
SNH 0200



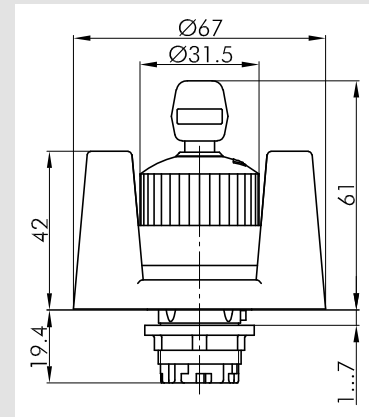
SNH 0300



SNH 0500

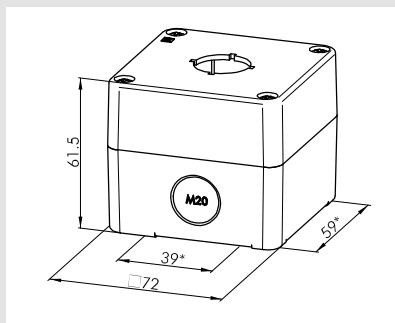


SNH 0600



SNH 0700

Housing

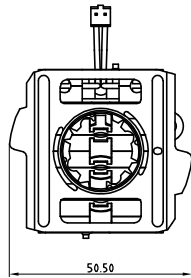
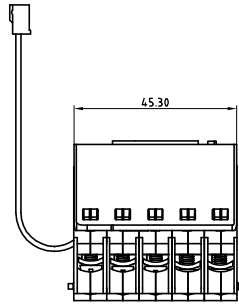
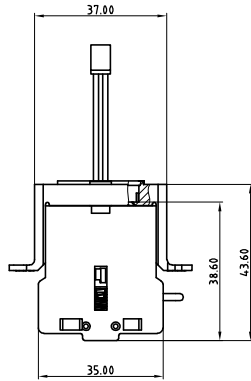


SNH 6001

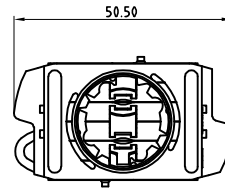
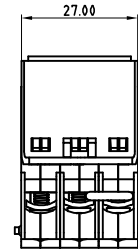
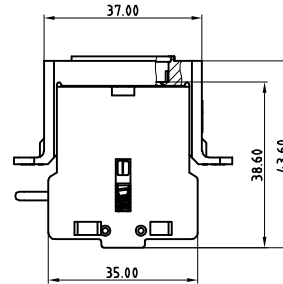
Emergency stop buttons – SNH Series

Dimension diagram

Contact blocks



SNH 0013
SNH 0023
SNH 0032
SNH 0033



SNH 0001
SNH 0002
SNH 0003
SNH 0031
SNH 0011
SNH 0012
SNH 0021
SNH 0022

sensor PRO

Overview of devices | part numbers

Type	Description	Part no.	Std. pack
SNH 0001	Contact block, 1 NC	R1.200.0001.0	1
SNH 0002	Contact block, 1 NC (failure protection)	R1.200.0002.0	1
SNH 0003	Contact block, 1 NC (failure protection) / illumination	R1.200.0003.0	1
SNH 0011	Contact block, 1 NC / 1 NO	R1.200.0011.0	1
SNH 0012	Contact block, 1 NC (failure protection / 1 NO)	R1.200.0012.0	1
SNH 0013	Contact block, 1 NC (failure protection) / 1 NO / illumination	R1.200.0013.0	1
SNH 0021	Contact block, 2 NC	R1.200.0021.0	1
SNH 0022	Contact block, 2 NC (failure protection)	R1.200.0022.0	1
SNH 0023	Contact block, 2 NC (failure protection) / illumination	R1.200.0023.0	1
SNH 0031	Contact block, 2 NC / 1 NO	R1.200.0031.0	1
SNH 0032	Contact block, 2 NC (failure protection / 1 NO)	R1.200.0032.0	1
SNH 0033	Contact block, 2 NC (failure protection) / 1 NO / illumination	R1.200.0033.0	1
SNH 0200	Actuator (without actuation indication)	R1.200.0200.0	1
SNH 0300	Actuator IP69 (without actuation indication)	R1.200.0300.0	1
SNH 0100	Actuator (with actuation indication)	R1.200.0100.0	1
SNH 0400	Actuator (with actuation indication + illumination)	R1.200.0400.0	1
SNH 0500	Actuator (with actuation indication + key release)	R1.200.0500.0	1
SNH 0600	Actuator (with actuation indication + protective collar)	R1.200.0600.0	1
SNH 0700	Actuator (with actuation indication, protective collar and key release)	R1.200.0700.0	1
SNH 1101	Emergency stop button (SNH 0100, 1 NC)	R1.200.1101.0	1
SNH 1102	Emergency stop button (SNH 0100, 1 NC (failure protection))	R1.200.1102.0	1
SNH 1111	Emergency stop button (SNH 0100, 1 NC / 1 NO)	R1.200.1111.0	1
SNH 1112	Emergency stop button (SNH 0100, 1 NC (failure protection) / 1 NO)	R1.200.1112.0	1
SNH 1121	Emergency stop button (SNH 0100, 2 NC)	R1.200.1121.0	1
SNH 1122	Emergency stop button (SNH 0100, 2 NC (failure protection))	R1.200.1122.0	1
SNH 1131	Emergency stop button (SNH 0100, 2 NC / 1 NO)	R1.200.1131.0	1
SNH 1132	Emergency stop button (SNH 0100, 2 NC (failure protection) / 1 NO)	R1.200.1132.0	1
SNH 6001	Housing IP67	R1.200.6001.0	1

Safety switch with separated actuator and guard locking – SIN Series



Applications

- Personnel protection on 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

- Suitable for locking devices in accordance with EN 1088
- Flexible use with 4 horizontal or 4 vertical actuating directions
- Integrated protection against simple bypassing
- Long service life thanks to dust- and water-proof housing and a broad operating temperature range of up to 70°C
- Locking force 1,500 N

Function

The mechanical safety switches in the SIN series are suitable for the secure locking (guard locking) of safety doors until a hazardous machine process has ended.

The safety switches have two independent contact blocks which reflect the position of the actuator on the one hand and the position of the guard locking on the other.

The release of the entry or a shutdown of the machine in case of danger is done by evaluating the contact blocks by a suitable basic device **Series 4000** or through the **samos** or **samos PRO** safety systems.

Spring-actuated locking (SIN 1xxx)

The safety switch on the guard is locked automatically when the actuator reaches its end position.

The guard is unlocked by applying a current to the internal electromagnets in the safety switch.

Magnet-actuated locking (SIN 2xxx)

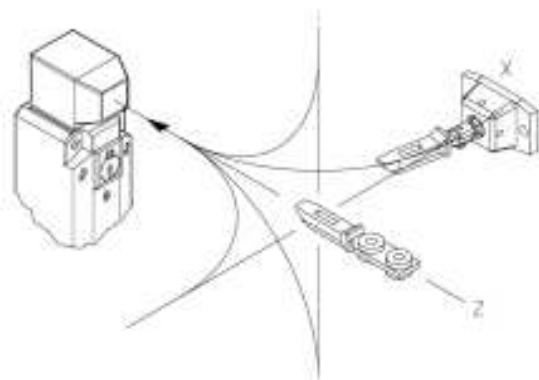
The safety switch on the guard is locked when the actuator reaches its end position by applying a current to the internal electromagnet.

When the current to the internal electromagnet is switched off, the guard locking is released and the guard can be opened.

Versatile installation




Thanks to the adjustable actuator head and the large selection of actuators, the safety switch can be used to implement guard locking devices for all applications in machine construction.

Universal use through 8 different actuating directions and 5 different actuators:



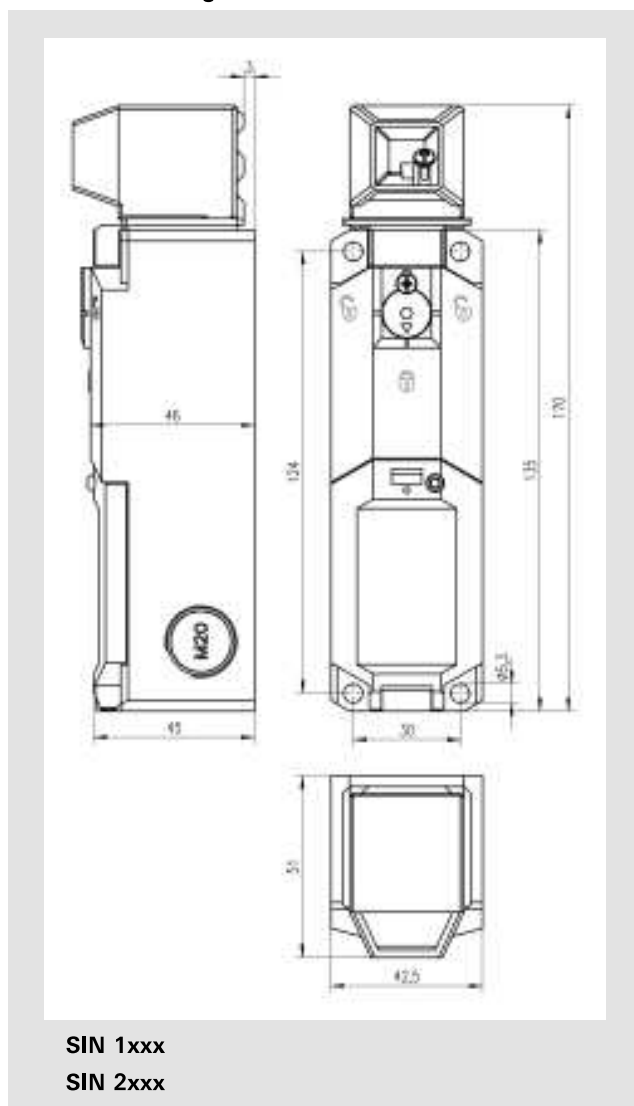
Safety switch with separated actuator and guard locking – SIN Series

Technical data

Function	
according EN 1088	Safety switch with separated actuator and guard locking
Power supply circuit	
Rated voltage	24 V AC/DC, 110/230 V AC
Continuous output	4.4 VA (SIN 12xx: 8 VA)
Output circuit	
Contact load of conv. thermal current I_{th}	5 A
Application category	AC-15: U_e 230V, I_e 2,5 A
Mechanical life	1 x 10 ⁶ switching cycles (max. 600 switching cyclesh)
Short-circuit protection	lead fuse 4 A class gL
Mechanical data	
Guard locking force	1500 Nm
Extraction force	> 27 Nm
Approach speed	max. 0,5 m/s
Dimensions (L x W x H)	170 x 42,5 x 51 mm
Mounting	4 x M5
Cable entry point	3 x M20 x 1,5
General data	
Ambient temperature	-25 - +70 °C
Wire ranges cage clamp terminals	1 x 0.5 -1.5 mm ²
Protection degree according to EN 60529	IP 67
Weight	0,35 kg
Standards	EN 60947-1, EN 60947-5-1, EN ISO 13849-1, EN 62061
Approvals	  

Safety switch with separated actuator and guard locking – SIN Series

Dimensions diagramm



Overview of devices | part numbers safety switch

Type *	Locking principle	Contact assignment (actuator + guard locking)	Rated voltage	Additional features	Part. no.	Std. pack
SIN 1120	Spring-actuated	2NC + 2NC	24 V AC/DC	Auxiliary release	R1.310.1120.0	1
SIN 1150	Spring-actuated	1NC/1NO + 1NC/1NO	24 V AC/DC	Auxiliary release	R1.310.1150.0	1
SIN 1130	Spring-actuated	2NC + 1NC/1NO	24 V AC/DC	Auxiliary release	R1.310.1130.0	1
SIN 1330	Spring-actuated	2NC + 1NC/1NO	24 V AC/DC	Auxiliary release, LED	R1.310.1330.0	1
SIN 1350	Spring-actuated	1NC/1NO + 1NC/1NO	24 V AC/DC	Auxiliary release, LED	R1.310.1350.0	1
SIN 1220	Spring-actuated	2NC + 2NC	110/230 V AC	Auxiliary release	R1.310.1220.0	1
SIN 1250	Spring-actuated	1NC/1NO + 1NC/1NO	110/230 V AC	Auxiliary release	R1.310.1250.0	1
SIN 1230	Spring-actuated	2NC + 1NC/1NO	110/230 V AC	Auxiliary release	R1.310.1230.0	1
SIN 2120	Magnet-actuated	2NC + 2NC	24 V AC/DC		R1.310.2120.0	1
SIN 2150	Magnet-actuated	1NC/1NO + 1NC/1NO	24 V AC/DC		R1.310.2150.0	1
SIN 2130	Magnet-actuated	2NC + 1NC/1NO	24 V AC/DC		R1.310.2130.0	1
SIN 2220	Magnet-actuated	2NC + 2NC	110/230 V AC		R1.310.2220.0	1
SIN 2250	Magnet-actuated	1NC/1NO + 1NC/1NO	110/230 V AC		R1.310.2250.0	1
SIN 2230	Magnet-actuated	2NC + 1NC/1NO	110/230 V AC		R1.310.2230.0	1

* the associated actuator must be ordered separately

Safety switch with separated actuator – SMS Series



SMS 4xxx



SMS 3xxx

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

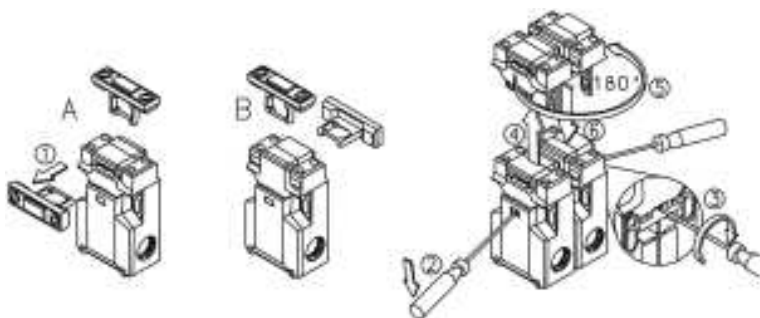
Features

- Flexible use with 2 horizontal or 2 vertical actuating directions
- Protection against simple bypassing in accordance with EN 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 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 **4000 series** or by one of the **samos** or **samosPRO** safety systems.



Simple installation and wiring in each application.

Safety switch with separated actuator – SMS Series



SMS 2xxx

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

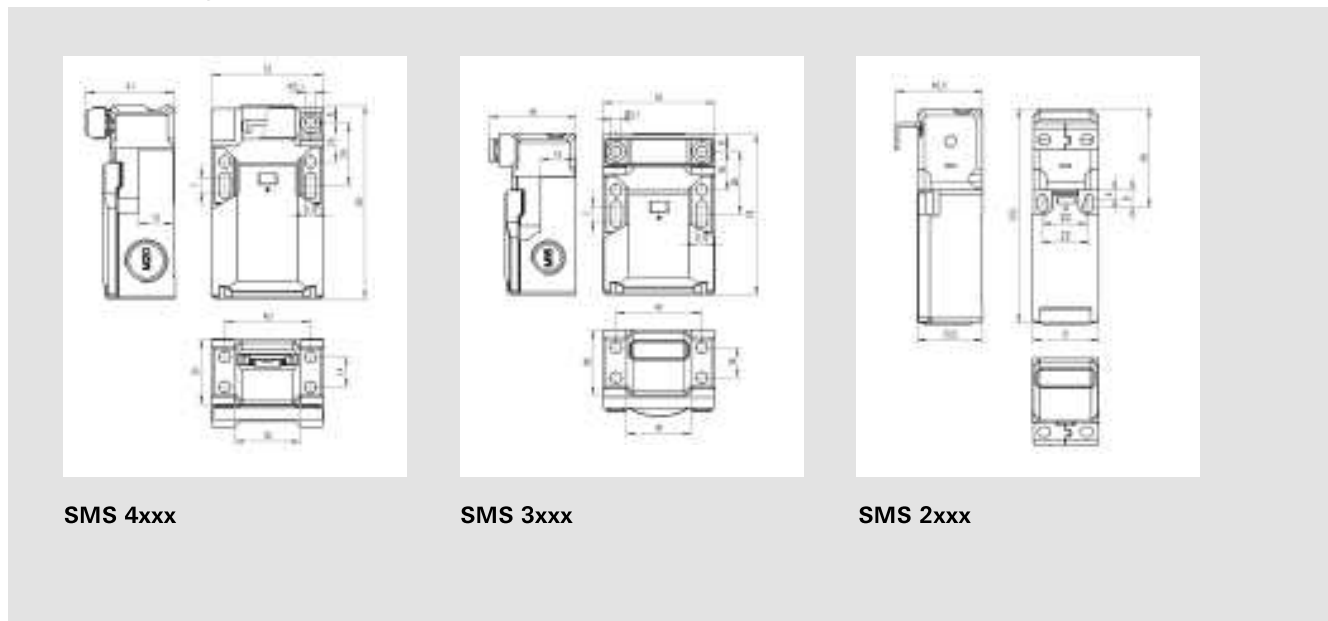
- Flexible use with 4 horizontal or 4 vertical actuating directions
- Slim design for installation on profile systems and where there are difficult space constraints
- Protection against simple bypassing in accordance with EN 1088 through multiple coding of the actuator
- Long service life thanks to 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

Function		
according EN 1088		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		≤ 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

Safety switch with separated actuator – SMS Series

Dimensions diagramm



Overview of devices | part numbers safety switch

Type	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

Actuator – SMS Series



SMS 9001
(SMS 3xxx / SMS 4xxx included in the scope of delivery)



SMS 9002

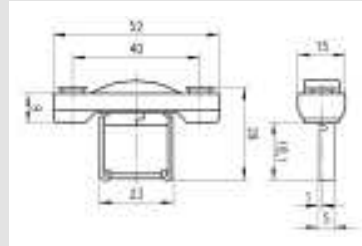


SMS 9003

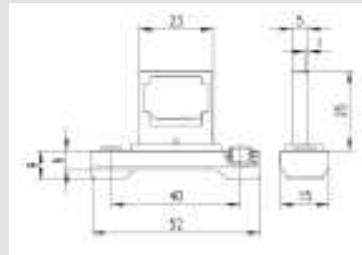


SMS 9004
(SMS 2xxx included in the scope of delivery)

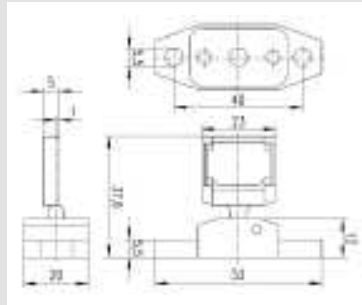
Dimensions diagramm



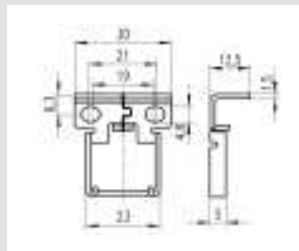
SMS 9001



SMS 9002



SMS 9003



SMS 9004

Overview of devices | part numbers Actuator

Type	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

Magnetic safety switches – SMA Series



SMA 01xx

Applications

- Machine and plant manufacturing
- Packing machines
- Wood-processing machines
- Elevator technology

Features

- Block-shaped design
- For harsh operating conditions
- Tamper proof
- Can be used up to PL e/Category 4 (EN ISO 13849-1)
- Degree of Protection IP67

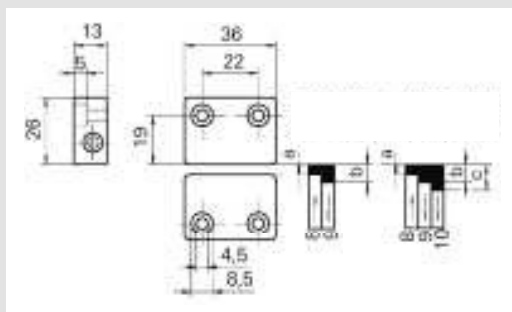
Technical data

Set	SMA 011x	SMA 012x	SMA 0119	SMA 0129
Dimensions / mm (L x W x H)	36 x 26 x 13 mm			
Connection	cable ¹⁾	cable ¹⁾	M8 connection	M8 connection
Actuating distance / (Sao / Sar)	8 / 17 mm			
Directions of actuation	Front - Front / Front - Side / Side - Side			
Protection degree	IP67			
Contact type	Reed			
Contact assignment	NC / NO	NO / NO	NC / NO	NC / NO
Switching voltage	48 V DC			
Switching current	0.2 A			
Maximum cable length	20 m			

¹⁾ Length, see device overview

Dimension diagram

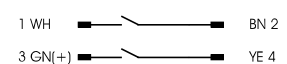
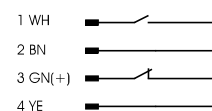
SMA 011x / SMA 0119 / SMA 012x / SMA 0129



Circuit diagram

SMA 011x / SMA 0119

SMA 012x / SMA 0129



Magnetic safety switches – SMA Series



SMA 02xx

Applications

- Machine and plant manufacturing
- Packing machines
- Wood-processing machines
- Elevator technology

Features

- Rectangle-shaped design
- For harsh operating conditions
- Tamper proof
- Can be used up to PL e/Category 4 (EN ISO 13849-1)
- Degree of Protection IP67

sensor PRO

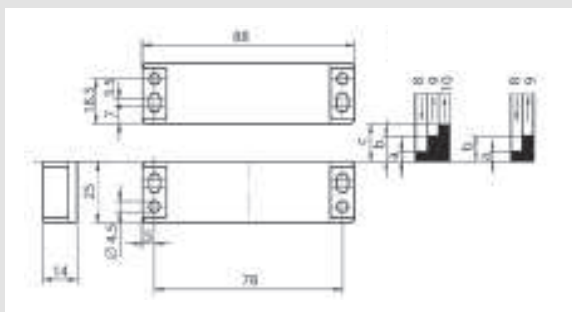
Technical data

Set	SMA 021x	SMA 022x	SMA 023x	SMA 0219	SMA 0229
Dimensions / mm (L x W x H)	88 x 25 x 14 mm				
Connection	cable ¹⁾	cable ¹⁾	cable ¹⁾	M8 connection	M8 connection
Actuating distance / (Sao / Sar)	7 / 20 mm				
Directions of actuation	Front - Front / Front - Side / Side - Side				
Protection degree	IP67				
Contact type	Reed				
Contact assignment	NC / NO	NO / NO	NO / NO / NC	NC / NO	NO / NO
Switching voltage	48 V DC				
Switching current	0.2 A				
Maximum cable length	20 m				

¹⁾ Length, see device overview

Dimension diagram

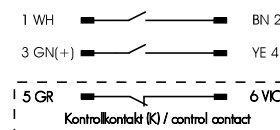
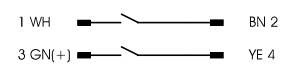
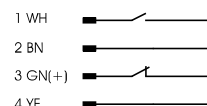
SMA 021x/SMA 0219/SMA 022x/SMA 023x/SMA 0229



Circuit diagram

SMA 021x / SMA 0219

SMA 022x / SMA 0229



SMA 023x

Magnetic safety switches – SMA Series



SMA 03xx

Applications

- Machine and plant manufacturing
- Packing machines
- Wood-processing machines
- Elevator technology

Features

- Round-shaped design
- For harsh operating conditions
- Tamper proof
- Can be used up to PL e/Category 4 (EN ISO 13849-1)
- Degree of Protection IP67

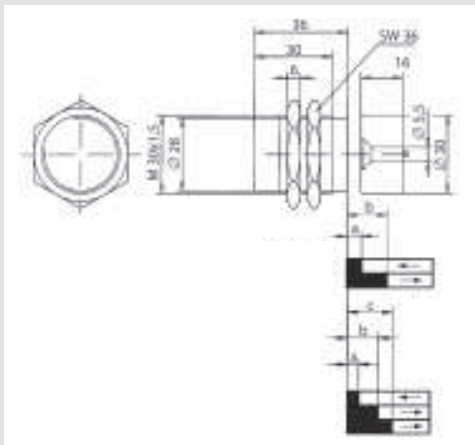
Technical data

Set	SMA 031x	SMA 032x	SMA 0319	SMA 0329
Dimensions / mm (Ø x L)	M30 x 32 mm			
Connection	cable ¹⁾	cable ¹⁾	M8 connection	M8 connection
Actuating distance / (Sao / Sar)	7 / 20 mm			
Directions of actuation	Front - Front			
Protection degree	IP67			
Contact type	Reed			
Contact assignment	NC / NO	NO / NO	NC / NO	NO / NO
Switching voltage	48 V DC			
Switching current	0.2 A			
Maximum cable length	20 m			

¹⁾ Length, see device overview

Dimension diagram

SMA 031x / SMA 0319 / SMA 032x / SMA 0329



Circuit diagram

SMA 031x / SMA 0319 SMA 032x / SMA 0329



Magnetic safety switches – Accessories



Overview of devices | part numbers

Type	Description	Contact	Part no.	Std. pack
SMA 0113	Switch with cable 3 m + magnet	NC / NO	R1.100.0113.0	1
SMA 0123	Switch with cable 3 m + magnet	NO / NO	R1.100.0123.0	1
SMA 0119	Switch mit with M8 connection + magnet	NC / NO	R1.100.0119.0	1
SMA 0129	Switch mit with M8 connection + magnet	NO / NO	R1.100.0129.0	1
SMA 3110	Magnet (NC / NO) for SMA 011x		R1.100.3110.0	5
SMA 3120	Magnet (NC / NO) for SMA 012x		R1.100.3120.0	5
SMA 4100	Washer for SMA 01xx		R1.100.4100.0	10
SMA 0213	Switch with cable 3 m + magnet	NC / NO	R1.100.0213.0	1
SMA 0223	Switch with cable 3 m + magnet	NO / NO	R1.100.0223.0	1
SMA 0224	Switch with cable 5 m + magnet	NO / NO	R1.100.0224.0	1
SMA 0226	Switch with cable 10 m + magnet	NO / NO	R1.100.0226.0	1
SMA 0228	Switch with cable 20 m + magnet	NO / NO	R1.100.0228.0	1
SMA 0233	Switch with cable 5 m + magnet	NO / NO / NC	R1.100.0233.0	1
SMA 0219	Switch with M8 connection	NC / NO	R1.100.0219.0	1
SMA 0229	Switch with M8 connection	NO / NO	R1.100.0229.0	1
SMA 3200	Magnet for SMA 02xx		R1.100.3200.0	5
SMA 4200	Washer for SMA 02xx		R1.100.4200.0	10
SMA 0313	Switch with cable 3 m + magnet	NC / NO	R1.100.0313.0	1
SMA 0323	Switch with cable 3 m + magnet	NO / NO	R1.100.0323.0	1
SMA 0219	Switch with M8 connection	NC / NO	R1.100.0319.0	1
SMA 0329	Switch with M8 connection	NO / NO	R1.100.0329.0	1
SMA 3300	Magnet for SMA 03xx		R1.100.3300.0	5
SMA 5004	Cable, 5 m		R1.100.5004.0	1
SMA 5005	Cable, 10 m		R1.100.5005.0	1

Magnetic switch interface – SMI 1001



Applications

- Connecting in series of two-channel sensors with contact assignment NO/NO up to PL d/Categorie 3 (EN ISO 13849-1)

Features

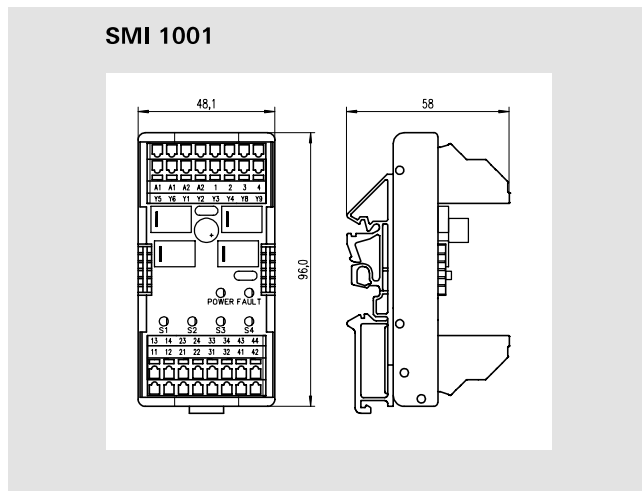
- Control via a maximum of 4 two-channel sensors
- Signal output for each sensor
- Optical indication of the switching state of each sensor

Function

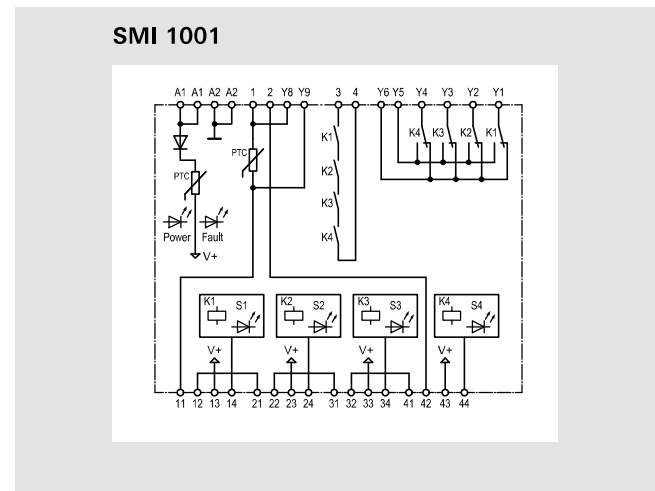
The SMI 1001 connects safety switches / position switches in series. Several safety switches or position switches can be connected to **S4000** safety switching devices or to **samos** and **samosPRO** safety systems and evaluated.

The SMI 1001 features status displays for the switching state of the NO circuits of the connected sensors as well as four diagnostics outputs for the display of the switching state of the NO circuits via external LEDs or a control.

Dimension diagram



Circuit diagram



Magnetic switch interface – SMI 1001

Overview of devices | part numbers

Type	Rated voltage	Terminals	Part no.	Std. pack
SMI 1001	24 V DC	Cage clamp, fixed	R1.100.4001.0	1

Technical data

Function	
Function display	1 x LEDs green, 5 x LEDs red
Power supply circuit	
Rated voltage	24 V DC
Rated consumption	1.5 W
Control circuit 11 – 44	
Max. cable length	30 m
Output circuit signal outputs Y1 – Y6	
Contact type	NO
Rated switching voltage	24 V DC
Max. switching current	0.5 A
Output circuit 1, 2, 3, 4	
Contact type	NO
Rated switching voltage	24 V DC
Max. switching current	150 mA
General data	
Creepage distances and clearances	according to EN 60664-1
Ambient temperature/ storage temperature	-25 – +55 °C / -25 – +70 °C
Wire ranges fine-stranded/ solid	0.08 – 2.5 mm ²
or fine-stranded with ferrules	0.08 – 1 mm ²
or fine-stranded with TWIN-ferrule	0.08 – 1.5 mm ²
Weight	0.1 kg

Application

