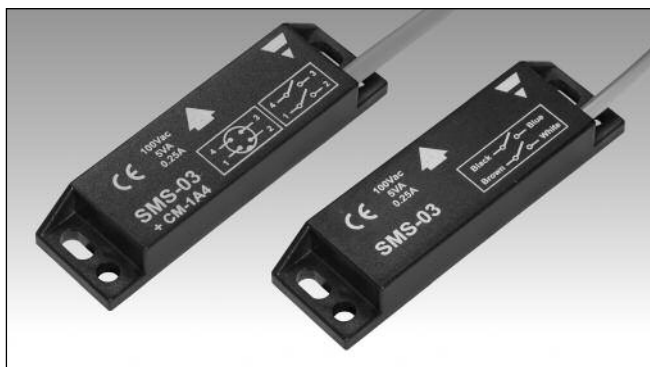


Safety Magnetic Sensors

Rectangular Safety Magnetic Sensors

Type SMS03

CARLO GAVAZZI



- Suitable for applications in safety category 4 in accordance with EN ISO13849-1:2008 when connected to appropriate safety devices
- 2 NO outputs
- 1 NC auxiliary output (SMS03NC and SMSAP20AG02M)
- Cable or M12 pig tail output connection (SMS03+CM1A4/03MT and SMSAP20AF03DCP)
- Rectangular housing
- Multiple flux coding
- In compliance with CEI EN 60947-5-3:2000

Product Description

The SMS03 series of safety magnetic sensors is characterized by multiple flux coding with 2 NO safety outputs.

The SMS03+CM-1A4/03MT and SMSAP20AF03DCP models are provided with a

pig tail output connection ended with a 4-pole M12 connector, while the SMS03NC and SMSAP20AG02M models are provided by 1 auxiliary NC output contact for signalling.

Ordering Key

SMS 03+CM1A4/03MT

Safety magnetic sensor

Contact type

Other features

Cable length

Type Selection

Outputs	Auxiliary output	Connection	Item code (CE)	Item code (CE, UL)
2 NO	-	PVC cable	SMS 03	SMS AP 20 AF 02M
2 NO	-	M12 4-pole connector	SMS 03+CM1A4/03MT	SMS AP 20 AF 03D CP
2 NO	1 NC	PVC cable	SMS 03 NC	SMS AP 20 AG 02M

Output Specifications

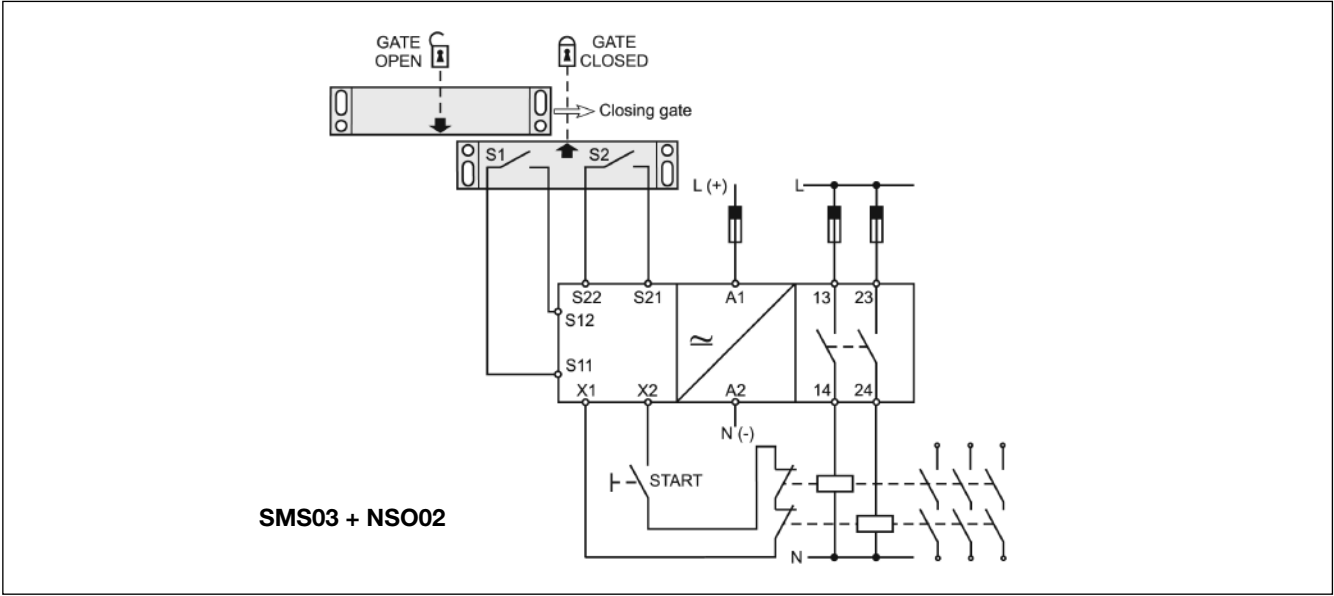
Outputs	Category 4 (EN ISO13849-1:2008)	Contact ratings (CE version only)	
	2 NO	Max Switching Voltage Max Switching Current Max Switching Power	100 VAC 0.25 A 5 VA
Auxiliary output		Contact ratings (UL version only)	
SMS03NC, SMSAP20AG02M	1 NC	Rating AC Max switching Voltage Max switching Current Max switching Power	120 VAC 0.1 A g.p. 12 VA
Output connection		Rating AC (NC contact of SMSAP20AG02M only) Max switching Voltage Max switching Current Max switching Power	125 VAC 0.35 A g.p. 10 VA
SMS03	Cable (PVC, AWG 26, L = 2 m, 4 x 0.15 mm ²)	Rating DC Max switching Voltage Max switching Current Max switching Power	50 VDC 0.25 A 12.5 W
SMS03 + CM1A4/03MT	Cable (PVC, AWG 22, L = 0.3 m, 4 x 0.33 mm ²) ended with a 4 pole M12 connector	Rating DC (NC contact of SMSAP20AG02M only) Max switching Voltage Max switching Current Max switching Power	175 VDC 0.35 A 10 W
SMS03NC	2 cables: 1st cable (PVC, AWG 26, L = 2 m, 4 x 0.15 mm ²); 2nd cable (PVC, AWG 22, L = 2 m, 2 x 0.35 mm ²)		
SMSAP20AF02M	Cable (PVC, AWG24, L = 2 m, 4 x 0.25 mm ²)		
SMSAP20AF03DCP	Cable PVC, AWG22, L = 0.3 m, 4 x 0.33 mm ²) ended with a 4 pole M12 connector		
SMSAP20AG02M	2 cables: 1st cable (PVC, AWG24, L = 2 m, 4 x 0.25 mm ²); 2nd cable (PVC, AWG24, L = 2 m, 2 x 0.25 mm ²)		



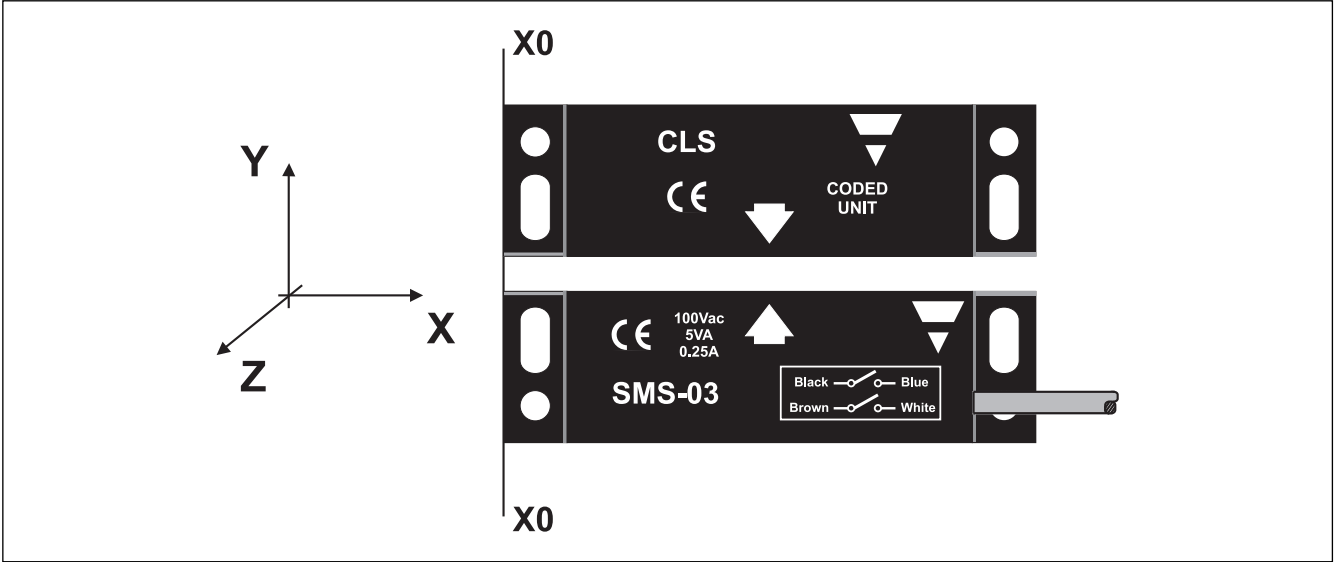
General Specifications

Operating distance ON	20 ± 3 mm	Weight	Approx. 70 g
Release distance OFF	22 ± 5 mm	Environment	Degree of protection IP 67
Reset distance	22 ± 5 mm	Operating temperature	-25 to +70 °C
Suitable magnetic unit	CLS CLSD88PM0 (cULus listed)	Storage temperature	-25 to +70 °C
Misalignment	max± 4 mm	Approvals	SMSAP20
Housing		CE-marking	Yes
Dimensions	88 x 25 x 13 mm		
Material	SMS03 (all) ABS SMSAP20 (all) PBT		

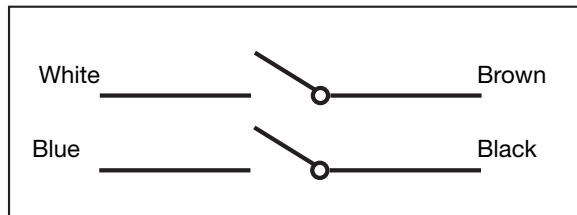
Application



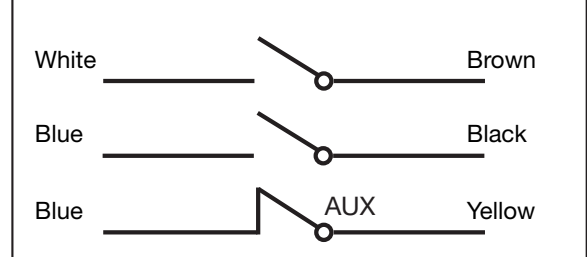
Operating Directions



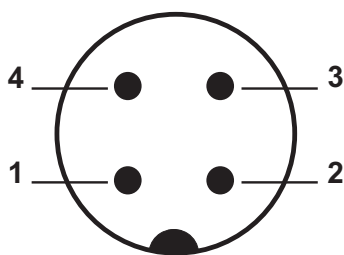
Wiring Diagrams



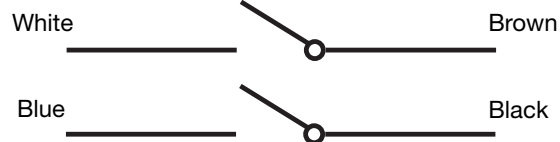
SMS03



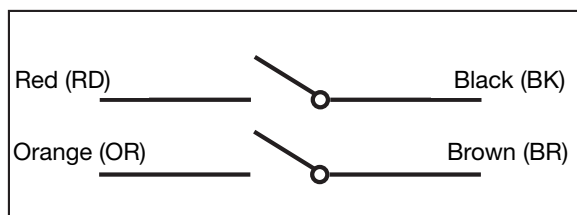
SMS03NC



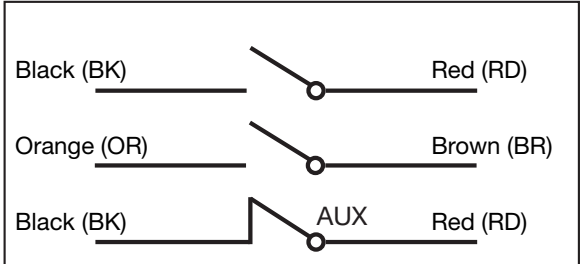
SMS03+CM1A4/03MT



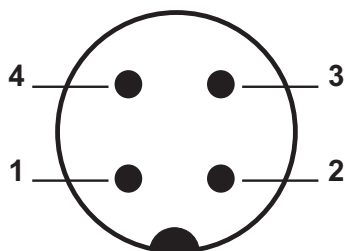
PIN 1 - PIN 2 : NO
PIN 3 - PIN 4 : NO



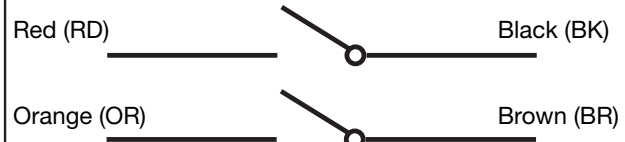
SMSAP20AF02M



SMSAP20AG02M



SMSAP20AF03DCP



PIN 1 (Black) = Pin 2 (Red): NO
Pin 3 (Orange) = Pin 4 (Brown): NO

Dimensions

