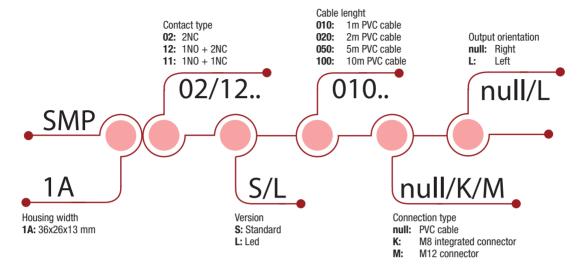
SMP1 Safety Magnetic Sensors

APPROVALS: UL 508 / EN 60947-5-1





HOW IS IT MADE?

- 01 LED indicator
 - Optionally provided on all models
- 02 Electrical connection
 - PositivePVC cable
 - M8 integrated connector (only for 2NC and 1NO + 1NC contacts)
 - PVC cable + M12 connector
- 03 Housing
 - 36 mm. width
- 04 Mounting screws
 - 2 x M4 screws
- 05 Output contacts
 - 2NC, 1NO + 2NC, 1NO + 1NC contacts



Safety Magnetic Sensors - SMP1 series





Safety Magnetic Sensors - Description

APPLICATIONS

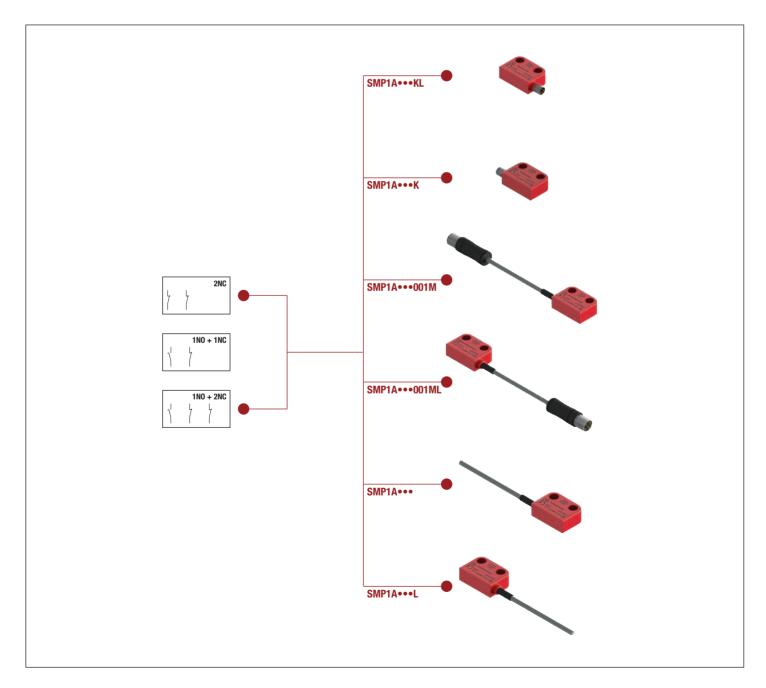
Comepi offers a range of safety magnetic sensors SMP series designed to satisfy applications requiring high safety standards. Combined with an appropriate safety module, SMP magnetic sensors guarantee a safety system with Safety Integraty Level (SIL CL) up to SIL 3 (according to EN 62061) and Performance Level up to PLe (according to EN ISO 13849-1).

- · Sealed: immune to dirt
- Wide actuation zone
- Difficult to by-pass as they can be easily hidden (with non-magnetic material)
- Electrical output contacts: 2NC, 1NO + 1NC or 1NO + 2NC
- Optionally provided with LED indicator
- · Intervention from all directions

They comply with the requirements of European Directives (Low Voltage, Machines and Electromagnetic Compatibility) and are conform to European and international standards.

DESCRIPTION

The housing is made of technopolymer and it offers a degree of protection IP67. Integrated cable or M8 / M12 connection allow to install these devices in the most varied applications.





Magnetic Sensors Safety Magnetic Sensors - Technical Data

	SMP Series
Temperature range	
– Operation °C	– 25 + 80
- Storage °C	− 25 + 80
Mounting positions	All positions are authorized
Degree of protection (according to IEC 60529 and EN 60 529)	IP 67
Pollution degree (according to IEC 60947-5-1)	3
Sil level (Sil CL) (according to EN IEC 62061)	Up to Sil 3 (*)
Performance level (PL) (according to EN ISO 13849-1)	Up to PLe (*)
Safety category (according to EN ISO 13849-1)	Up to Cat 4 (*)
B10d for each channel	20.000.000 (*) / 400.000 (used with max load: 24V - 0,25A)

^(*) Connecting a single sensor to a COMEPI safety module MS1A31...*.

Electrical Data

Rated insulation voltage U _i according to IEC 60947-1 and EN 60947-1	120 Vac (cable connection and cable +M12 4 poles connector) 60 Vac / 75 Vdc (M8 connector) 30 Vac / 36 Vdc (M12 8 poles connector)
Rated impulse withstand voltage U _{imp}	6 (1,5 for M8 or M12 connectors)
Conventional free air thermal current I_{th} (according to IEC 60947-5-1) $\theta < 40$ °C	0,25
Rated voltage / current	24 Vac / dc - 0,25 A (resistive load)
Max resistive load V	6 (external fuse 0,25 A type F)
Electrical durability	1.000.000 operations

Approvals

Standards	FN 60947-1 FN 60947-5-1	FN 60947-5-2 FN 60947-5-3 (*)	FN ISO 14119 FN ISO 12100-1	, EN ISO 12100-2, EN ISO 13849-1,
otanuanus	LIN 00341-1, LIN 00341-3-1	, LIN 00341-3-2, LIN 00341-3-3 () ,	LIN 100 14113, LIN 100 12100-1	, LIN 130 12100-2, LIN 130 13043-1,

EN ISO 13849-2, EN 60204-1, EN 60529

Directives 2014/35/UE low voltage

> 2006/42/CE machinery 2014/30/UE electromagnetic

Certifications CE - UL



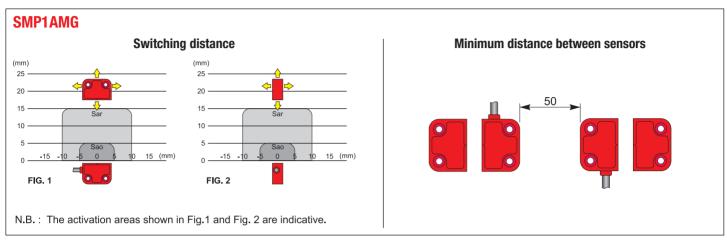


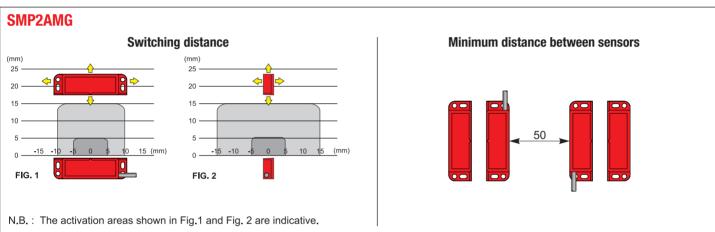
Instruction sheet - Safety magnetic sensor

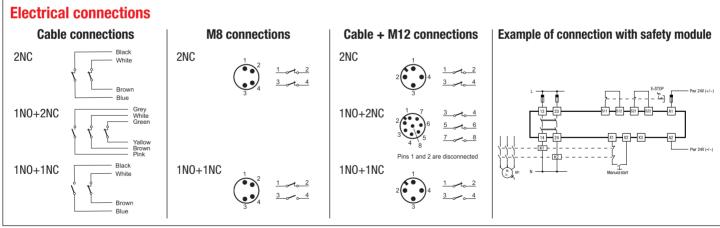


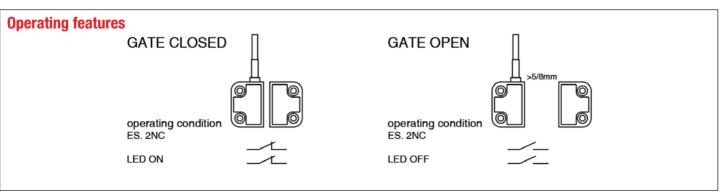
Safety Magnetic Sensors - Technical Data

IMPLEMENTATION





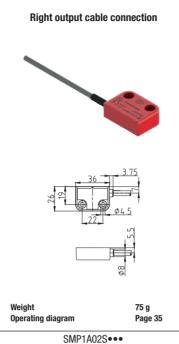


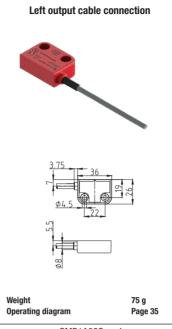


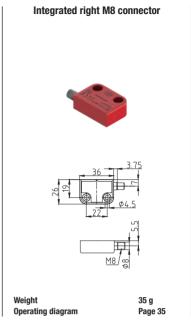


SMP1 - Polymeric housing - IP67









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2NC	SMP1A02S•••
1NO + 2NC	SMP1A12S•••
1NO + 1NC	SMP1A11S•••
2NC with LED signalling	SMP1A02L•••
1NO + 2NC with LED signalling	SMP1A12L•••
1NO + 1NC with LED signalling	SMP1A11L•••

 SMP1A02S•••L
 SMP1A02SK

 SMP1A12S•••L
 SMP1A11SK

 SMP1A02L•••L
 SMP1A02LK

 SMP1A12L•••L
 SMP1A02LK

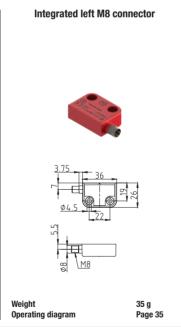
 SMP1A11L•••L
 SMP1A11LK

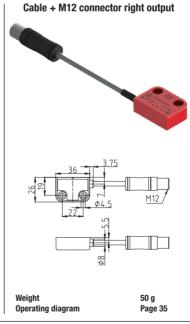
Electrical connection:

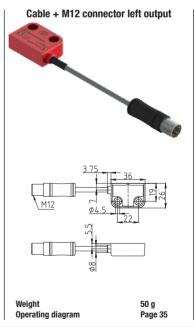
Replace the symbol "•••" with the lenght of the cable desired

010: Cable lenght 1m **050:** Cable lenght 5m **020:** Cable lenght 2m **100:** Cable lenght 10m









2NC	SMP1A02SKL	SMP1A02S001M	SMP1A02S001ML
1NO + 2NC		SMP1A12S001M	SMP1A12S001ML
1NO + 1NC	SMP1A11SKL	SMP1A11S001M	SMP1A11S001ML
2NC with LED signalling	SMP1A02LKL	SMP1A02L001M	SMP1A02L001ML
1NO + 2NC with LED signalling		SMP1A12L001M	SMP1A12L001ML
1NO + 1NC with LED signalling	SMP1A11LKL	SMP1A11L001M	SMP1A11L001ML



Contact Blocks