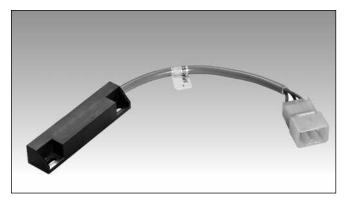
Proximity Magnetic Sensors Rectangular Housing Relay output SPA1 Series





- · Rectangular plastic housing
- 1 NC high power output
- 1 NC signalling contact
- Relay output
- 24 VDC power supply
- Long life contacts

Product Description

The SPA1 magnetic sensors Series allow to use two different normally closed contacts: the first one has low power (5 VA) and can be used as a signal contact; the second one has high power (100 VA) and can be used to drive hard loads. The cable output (ended by a connector) may be $3 \times 0.75 \text{ mm}^2$, with the ground connection fixed on the case of the sensors by a thin plate, or $4 \times 0.75 \text{ mm}^2$, with the ground signal output within the cable.

Ordering Key	SP A 1 S2		
Type — Output function — Reed contact type — Special version — Special version — Output function — Out			

Type Selection

Housing dimensions	Connection	Output function	Reference	
90 x 20 x 16	PVC cable L= 0.1m	NC	SP A 1 S2	
90 x 20 x 16	PVC cable L= 0.1m	NC	SP A 1 S3	
Dimensions are specified in millimeters (mm)				

Output Specifications

Output Specifications			
cles without load			
cles (E1)			
cycles (E2)			
n allowable load			
5			

General Specifications

Operating distance	See Operating Distance table	
Suitable magnetic unit	See Operating Distance table	
Operating temperature	-25 to +80 °C	
Degree of protection	IP 67	
Housing Dimensions Material	90 x 20 x 16 mm ABS class V0	
GND Connection SPA1S2 SPA1S3	Within the output cable Thin plate fixed on the case	
Weight	65 g	
CE-marking	Yes	



Operating Distance

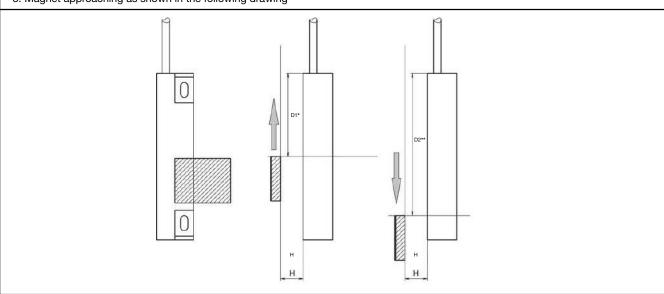
Nominal operating point H 12 Max operating point Hmax 14 Switching OFF distance D1* 45 ± 7 Switching ON distance D2** 77 ± 7 Hysteresis of the switching points 8 ± 5

Distances are specified in millimeters (mm)

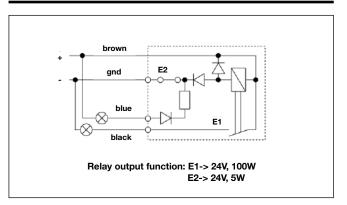
- $\ensuremath{^{\star}}$ point at which the outputs open when magnet moves in the arrow direction.
- ** point at which the outputs close when magnet moves in the arrow direction.

Operating distance is specified under following conditions:

- 1. Driving Magnet: plastoferrite 30 x 25 4.5 mm mounted on Fe37 plate (0.5 mm thickness)
- 2. Polarity NORTH to drive magnet towards sensor
- 3. Magnet approaching as shown in the following drawing



Wiring Diagrams



Dimensions

