Reed Contact Magnetic Sensors Ø 12

INFRA ELECTRONIC SENSORS

REED CONTACT MAGNETIC PROXIMITY SENSORS

- *Metal and plastic housing*
- *2 mS delay on activation*
- *2 m integral cable*
- *Choice of magnet targets*

SM Series

Identification code

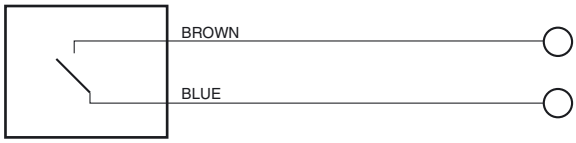
SM	07
SERIES SM	
NO - Length 40mm	07
NO + NC - Length 42mm	08 (4)
POWER NO - Length 30mm	09 (2)
POWER NO - Length 70mm	13 (1)
POWER NO+NC - Length 70mm	14 (3)
NO - Length 100mm - plastic	19 (2)
POWER NO - Length 100mm - plastic	21 (1)
BISTABLE - Length 100mm - plastic	22 (3)

MAX. VOLTAGE	(SM07)	230 Vpeak
MAX. CURRENT	(SM07)	0.04 A
POWER	(SM07)	10 W
SWITCHING FREQUENCY		200 Hz
DELAY ON ACTIVATION		2 mS
REPEATABILITY		± 0.3 mm
TEMPERATURE LIMITS		-20 ÷ +60°C
PROTECTION DEGREE		IP 67
CABLE LENGTH		2m
CABLE SECTION	SM07/SM09/SM13=2x0.50mm² - SM08/SM14=3x0.35mm² - SM19/SM21/SM22=2x0.75mm²	
HOUSING MATERIAL		Nickel-plated brass

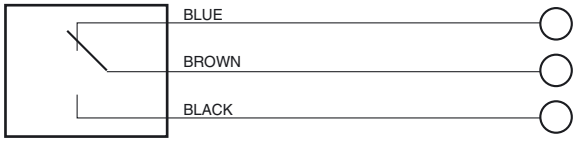
(1) Pw = 100W : I max = 3A (V = 33V) - Vpeak = 250V (I = 0.4A)
(2) Pw = 50W : I max = 1A (V = 50V) - Vpeak = 250V (I = 0.2A)
(3) Pw = 100W : I max = 3A (V = 33V) - Vpeak = 250V (I = 0.4A)
(4) Pw = 3W : I max = 0.25A (V = 12V) - Vpeak = 100V (I = 0.03A)

Wiring diagrams

NO CONTACT

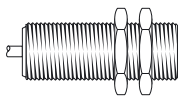


NO + NC CONTACT



Reed contact sensor / magnet switching distance (mm)

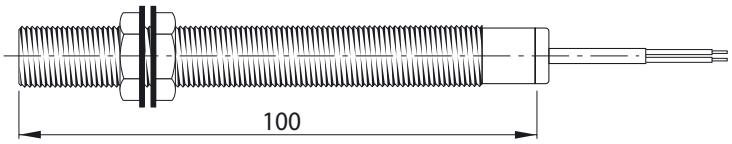
DIAMETER 12



Distance	Hysteresis	
24 12 (Power)	5 7 (Power)	MG01
22 10 (Power)	5 6 (Power)	MG02
6 0 (Power)	2.5 0 (Power)	MG03
22 22 (Power)	9 9 (Power)	MG04
20 20 (Power)	9 9 (Power)	MG05

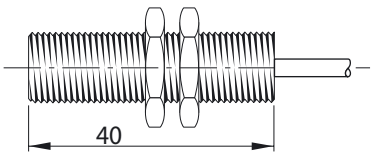
WARNING: The data specified in this table have an approximate value because they depend on the magnet position, on the material on which it is applied (ferromagnetic or not) and because they are related to the magnet during the frontal approach. Reed contact sensors can be also activated laterally considering that switching distances are always influenced by the magnet position and orientation besides the material on which it is applied (ferromagnetic or not).

Plastic housing models dimensions (mm)

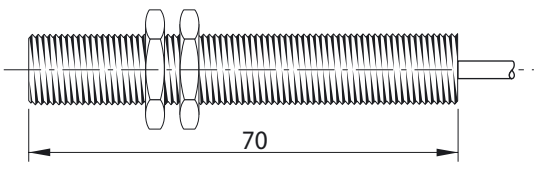


Metal housing models dimensions (mm)

SHORT HOUSING



LONG HOUSING



Magnets dimensions (mm)