

Magnetic Non-contact Switch



MN Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Non-powered magnetic detection method
- Two wiring specifications of cable / cable connector type
- Available to install at back-forth / right-left moving door
- IP67 protection structure (IEC standard)

Ordering Information

This is only for reference.

For selecting the specific model, follow the Autonics web site.

MN - ① - ②

① Contact

AB: 1 × N.O. + 1 × N.C.

2A: 2 × N.O.

② Cable

O20: Cable type

W: Cable connector type

Product Components

- Product
- Instruction manual

Specifications

Model	MN-AB-□	MN-2A-□
Contact	1 × N.O. + 1 × N.C.	2 × N.O.
Operating distance ⁽¹⁾	OFF→ON	≥ 5 mm
	ON→OFF	≤ 15 mm
Approval	CE ENEC ERI	
Unit weight (package)	Cable type: ≈ 92.6 g (≈ 106.5 g) Cable connector type: ≈ 47.2g (≈ 61.0g)	

01) Rated at the ambient temperature of 23 °C. It can be differ up to ±20% according to the ambient temperature.

Switching voltage	≤ 24 VDC=
Switching current	≤ 400 mA
Life expectancy	≥ 1 billion times (with low load)
Vibration	1.0 mm double amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 2 hours
Vibration (malfunction)	1.0 mm double amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 10 minutes
Shock	300 m/s ² (≈ 30 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	300m/s ² (≈ 30 G) in each X, Y, Z direction in output ON/OFF status for 3 times
Ambient temperature	-10 to 55 °C, storage: -20 to 60 °C (a non freezing or condensation environment)
Ambient humidity	35 to 85 %RH, storage : 35 to 85 %RH (a non freezing or condensation environment)
Protection structure	IP67 (IEC standard)
Connection	Cable type / Cable connector type
Cable	∅ 5 mm, 4-wire cable type: 2 m, cable connector type: 0.3 m
Wire	AWG24 (0.08 mm), 40-core, core diameter: ∅ 1.11 mm
Connector	M12 connector
Material	Body/CAP: PC

■ Applied REED SWITCH

Model	ORD324-25-30 (STANDEX MEDER)
Contact	A (SPST-NO: single pole single throw, normally open)
Contact rating	≤ 10 W/VA ⁽¹⁾
Voltage	Switching: ≤ 200 VDC=, Breakdown: ≥ 250 VDC=
Current	Switching: ≤ 0.5 A, Carry: ≤ 1 A
Ambient temperature	-40 to 125 °C, storage : -65 to 125 °C ⁽²⁾
Material	Body: glass, leads: tin-plated Ni-Fe wire

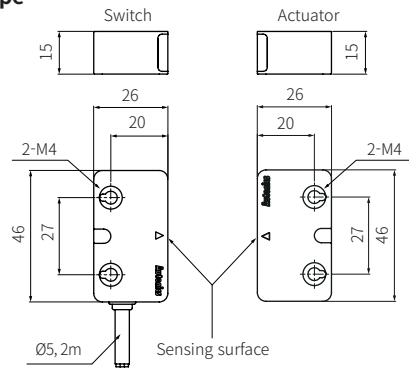
01) Switching voltage and current should never exceed the wattage rating.

02) Long time exposure at elevated temperature may degrade solderability of the leads.

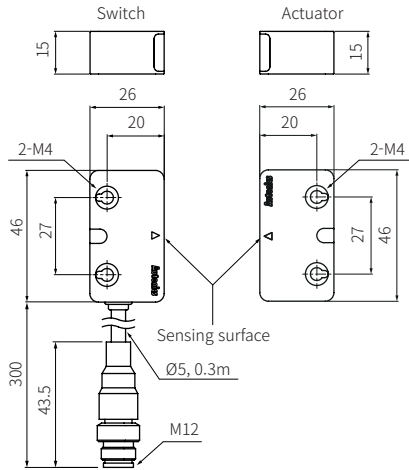
Dimensions

• Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.

■ Cable type



■ Cable connector type



Sold Separately

• Connector cable