Autonics

This is only for reference. For selecting the specified model, follow the Autonics website -

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SFN -М

Ordering Information

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O Cable
020: cable type (2 m)
050: cable type (5 m)
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W: cable connector type

Product Components

• Product

Specifications

Model		SFN-M-			
Operating	OFF→ON	≥5mm			
distance ⁰¹⁾	ON→OFF	≤ 15 mm			
Approval		CE (TUV NORD) (B) I LINIE S			
Unit weight (packaged)		Cable type (2 m): ≈ 100.5 g (≈ 113.8 g) Cable type (5 m): ≈ 199.5 g (≈ 214.8 g) Cable connector type: ≈ 58.1 g (≈ 71.6 g)			
01) It is rated a	it 23°C of ambie	ent temperature, and it may be differed up to \pm 20 % by ambient temperature.			
Power supply		24 VDC== (± 10 %)			
Operating frequency		100 Hz			
Power consumption ⁰¹⁾		≤ 400 mA			
Auxiliary output		PNP open collector output - 24 VDC, 10 mA			
Operation indicator		ON: green, OFF: red			
Life expectancy		≥ 20,000,000 times (with low load)			
Insulation resistance		\geq 50 M Ω (500 VDC== megger)			
Protection circuit		Surge protection circuit, output short over current protection circuit, reverse polarity protection circuit			
Dielectric strength		1,500 VAC~ 50/60Hz for 1 minute			
Vibration		1.0 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours			
Vibration (malfunction)		1.0 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min			
Shock		300 m/s ² (\approx 30 G) in each X, Y, Z direction for 3 times			
Shock (malfunction)		300m/s ² (\approx 30G) 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 (no freezing or condensation)			
Ambient humidity		35 to 85 %RH, storage : 35 to 85 %RH (no freezing or condensation)			
Protection s	tructure	IP67 (IEC standard)			
Connection		Cable type / cable connector type model			
Cable		Ø 5 mm, 5-wire, cable type: 2 m / 5 m, cable connector type: 0.3 m			
Wire		AWG26 (0.08 mm), 28-core, core diameter: Ø 0.74 mm			
Connector spec.		M12 plug connector			
Material		Body/CAP: PC			

• Instruction manual

	Characteristic level / Safety category (with SFC-N322)	IEC 61508 SIL 3 IEC 62061 SIL CL 3 ISO 13849-1 PLe Cat.4 - HFT = 1 - Diagnostic Coverage: 99 % (high) - MTTFd = 100 year (high) - MTTFd = 100 year (high) - Mission time = 20 year - PFH = 3.88E-09	
Safety status in case of error: the switch does not have an internal error recognition function, so it cannot maintain a			

safety status in the event of error. Error recognition is processed in the connected controller (SFC-N322).

Safety Non-contact Door Switch



SFN Series CATALOG

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

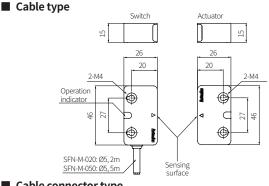
The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

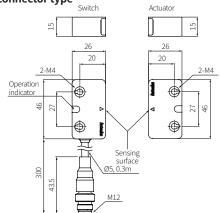
- Vertical/Horizontal installation supported
- · Available to install at back-forth, up-down, right-left moving door
- Connectible maximum 30 units to one controller
- Easy notification of operation status with an operation indicator (ON: green, OFF: red)

Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.







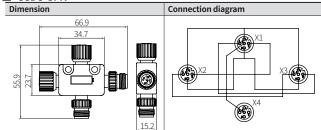
Sold Separately

- Connector cable: C1D5- , CID5- , CID5- P
- Branch connector: CCD5-SFN, CYD5-SFN
- Loop connector: CND5-SFN
- Safety controller non-contact door switch unit: SFC-N322

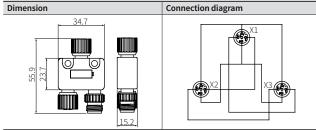
Sold Separately: Branch Connector

• Unit: mm, For the detailed drawings, follow the Autonics website.

CCD5-SFN



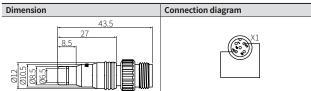
CYD5-SFN



Sold Separately: Loop Connector

- Unit: mm, For the detailed drawings, follow the Autonics website.
- When using the branch connector, use the loop connector together.

CND5-SFN



Sold Separately: Connector Cable

- Unit: mm, For the detailed drawings, follow the Autonics website.
- ullet in model stands for the cable length.



