GLS

CSM_GLS_DS_E_12_1

Easy-to-use, Simple Magnetic Proximity Sensor

- Permanent magnetic used to operate the reed switch.
- Ideal for detecting opening and closing of doors.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.



Be sure to read *Safety Precautions* on page 2.

Ordering Information

Terminal Block Model (Sensor)

Name	Model
Set	GLS-1
Sensor	GLS-S1
Magnet	GLS-M1

Pre-wired Model (Sensor)

Name	Cable length	Model
Set	1 m	GLS-1L
Sensor	1 1111	GLS-S1-L

Note: A magnet of the Pre-wired Model can not be purchased separately.
The magnet specifications are different for Pre-wired Models and Terminal Block Models.

Ratings and Specifications

Item	Model	GLS-1	GLS-1L	
Sensing dis	stance	15 mm *1		
Contact cir	rcuit	SPST-NO		
Switching of	capacity *2	Maximum operating voltage: 100 VDC Maximum operating current: 0.1 A DC Maximum switching capacity: 10 W (for both open and closed contacts)		
Contact die	electric strength	250 VDC for 1 min with a leakage current of 1 mA max.		
Response	frequency	20 Hz max.		
Ambient te	emperature range	Operating/Storage: -20 to 60°C (with no icing or condensation)		
Ambient hu	umidity range	Operating/storage: 35% to 85% (with no condensation)		
Contact resistance		150 mΩ max.	250 mW max. (including conductor resistance of lead wire)	
Dielectric s	lectric strength 1,000 VAC for 1 min between terminals and case			
Life expect	pectancy 50,000,000 times min. with 0.1-A resistive load at 24 VDC		OC .	
Vibration re	tion resistance Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions		2 hours each in X, Y, and Z directions	
Shock resis	stance	Destruction: 300 m/s ² 3 times each in X, Y, and Z directions		
Degree of p	protection IP40 (IEC)			
Connection method		Terminal block	Pre-wired (standard cable length: 1 m)	
Materials	Sensor	- ABS		
	Magnet			

^{*1.} Notice that the actual distance is 15 mm min.

^{*2.} AC power cannot be used.

Safety Precautions

Refer to Warranty and Limitations of Liability.

MARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.

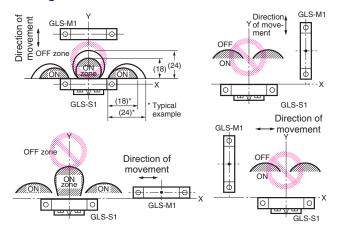


Precautions for Correct Use

Do not use this product under ambient conditions that exceed the ratings.

Design

Sensing area



Mounting

Mounting

The characteristics of the GLS will change if the GLS is mounted to ferrous materials, such as a steel plate.

Wiring

Internal Wiring Diagram



Miscellaneous

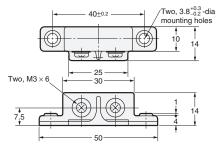
Do not impose excessive shock on the Sensor (e.g., dropping the Sensor from a height of 800 mm or more). Otherwise, the Sensor may malfunction.

Dimensions

(Unit: mm) Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

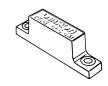


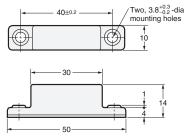




Note: Tighten each M3 screw of the terminal block to a torque of 0.59 N·m. max.

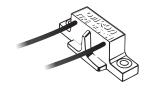
Magnet GLS-M1

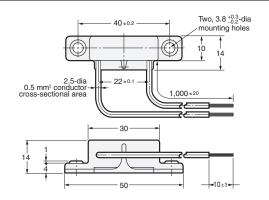




Note:The shape of the magnet is the same for Pre-wired Models and Terminal Block Models, but the magnet specifications are different.

Sensor (pre-wired) GLS-S1-L





Terms and Conditions Agreement

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