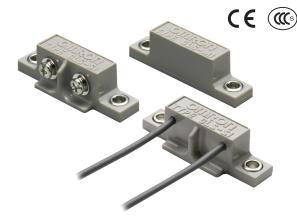


CSM_GLS_DS_E_15_1

Easy-to-use, Simple Magnetic Proximity Sensor

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



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

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

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		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 di	stance	15 mm *1		
Contact cir	rcuit	SPST-NO		
Switching	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	mperature range	P 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	ectric strength 1,000 VAC for 1 min between terminals and case			
Life expectancy 50,000,000 times min. with 0.1-A resistive load		50,000,000 times min. with 0.1-A resistive load at 24 VI	00	
Vibration re	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions			
Shock resi	stance	Destruction: 300 m/s ² 3 times each in X, Y, and Z directions		
Degree of protection		IP40 (IEC)	IP62 (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.

WARNING

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

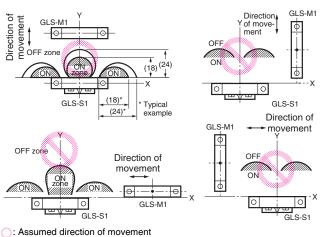


Precautions for Correct Use

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

, ~	61
1	1
1	1
'⊗	$\otimes -$
Terminal	Terminal

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 (remain OFF).

Currents or voltage exceeding the switching capacity applied to the Sensor may also cause the Sensor to malfunction (remain ON).

Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified. Sensor (terminal block) Magnet wo, 3.8^{+0.3}-dia 40+0.2 GLS-S1 GLS-M1 mounting holes 10 25 Two, M3 × 30 Ŕ 7.5 50 Note: Tighten each M3 screw of the terminal block to a torque of 0.59 N·m. max. Two, 3.8^{+0.3}_{-0.2}-dia 40±0.2 Sensor (pre-wired) Two, 3.8 ^{+0.3}-dia mounting holes mounting holes 40 ± 0.2 GLS-S1-L 10 2.5-dia 0.5 mm² conductor 22±0.1 1,000 ±2 cri sectional area 50 30 Note: The shape of the magnet is the same for Π Pre-wired Models and Terminal Block Models, but the magnet specifications are different. 50 10±3

> A-SUNG International CO.,LTD. DISTRIBUTOR

Dimensions

S: May turn ON/OFF multiple times during each pass

(Unit: mm)