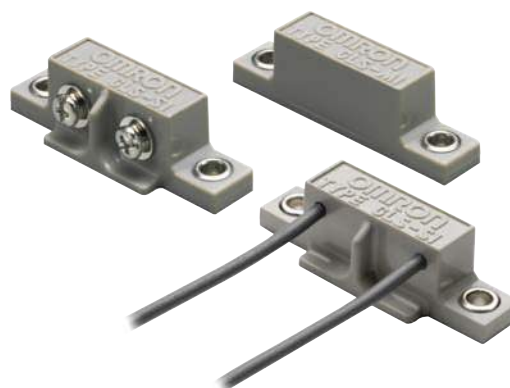


## Easy-to-use, Simple Magnetic Proximity Sensor

- 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 distance		15 mm *1	
Contact circuit		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 dielectric strength		250 VDC for 1 min with a leakage current of 1 mA max.	
Response frequency		20 Hz max.	
Ambient temperature range		Operating/Storage: -20 to 60°C (with no icing or condensation)	
Ambient humidity range		Operating/storage: 35% to 85% (with no condensation)	
Contact resistance		150 mΩ max.	250 mW max. (including conductor resistance of lead wire)
Dielectric strength		1,000 VAC for 1 min between terminals and case	
Life expectancy		50,000,000 times min. with 0.1-A resistive load at 24 VDC	
Vibration resistance		Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions	
Shock resistance		Destruction: 300 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	
Degree of 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*.

## ⚠ WARNING

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

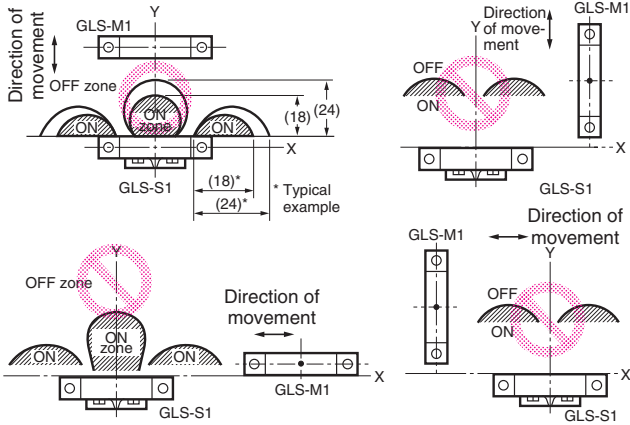


## Precautions for Correct Use

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



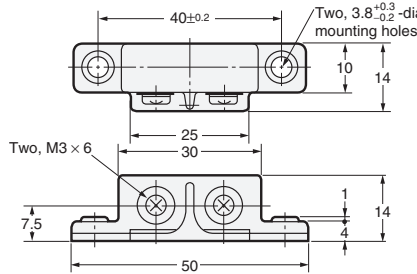
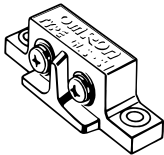
### ● Miscellaneous

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

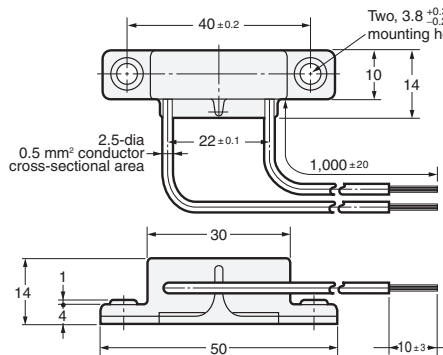
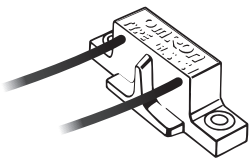
(Unit: mm)  
Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

### Sensor (terminal block) GLS-S1

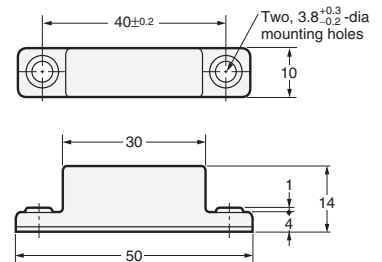
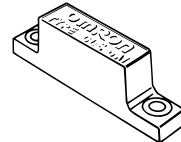


Note: Tighten each M3 screw of the terminal block to a torque of 0.59 N-m. max.

### Sensor (pre-wired) GLS-S1-L



### 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.

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