

Magnetic Proximity Sensor

GLS

Easy-to-Use Magnetic Proximity Sensor

- Compact reed-switch size saves space on machines
- Ideal for door and cover closures in applications without operator hazards
- Separate sensor and magnet parts allow multiple magnet positions for a single sensor to detect



Ordering Information

Description	Part number
Sensor and magnet set	GLS-1
Sensor only	GLS-S1
Magnet only	GLS-M1

Specifications

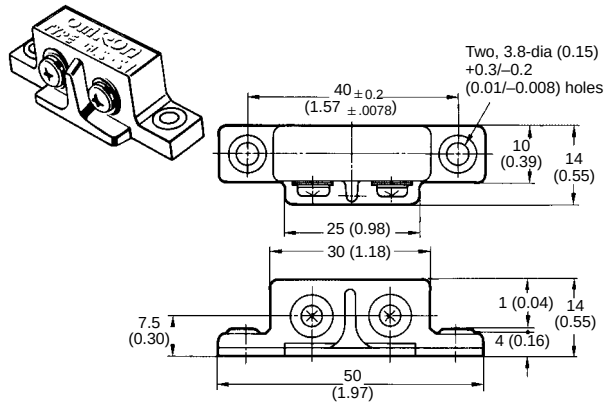
■ RATINGS

Sensing distance	15 mm (0.59 in) min. under the conditions specified in <i>Precautions</i>
Contact circuit	SPST-NO
Switching capacity	10 W max. at 100 VDC and 0.1 A max.
Contact dielectric strength	250 VDC for 1 min at a leakage current of 1 mA max.
Response frequency	20 Hz max.
Ambient temperature	Operating
	–20°C to 60°C (–4°F to 140°F) with no icing
Contact resistance	150 mΩ max.
Dielectric strength	1,000 VAC for 1 min between each terminal and non-charged part
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 (0.059 in) double amplitude for 2 hours each in X, Y, and Z directions
Shock resistance	Destruction: 300 m/s ² (984 ft/sec ²) approx. 30G in X, Y, and Z directions.
Material	Case
	ABS
	Sensing face
	ABS
Enclosure rating	IP40

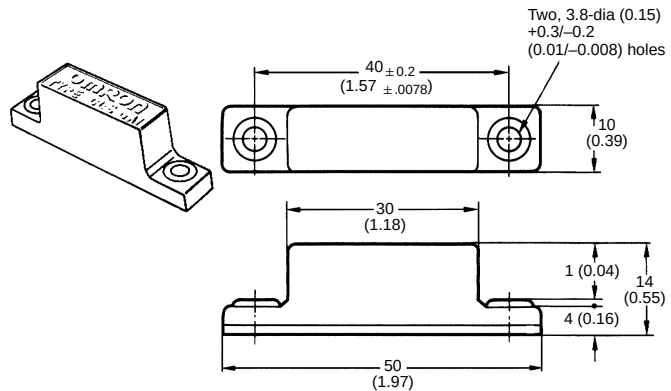
Dimensions

Unit: mm (inch)

■ GLS-S1



■ GLS-M1



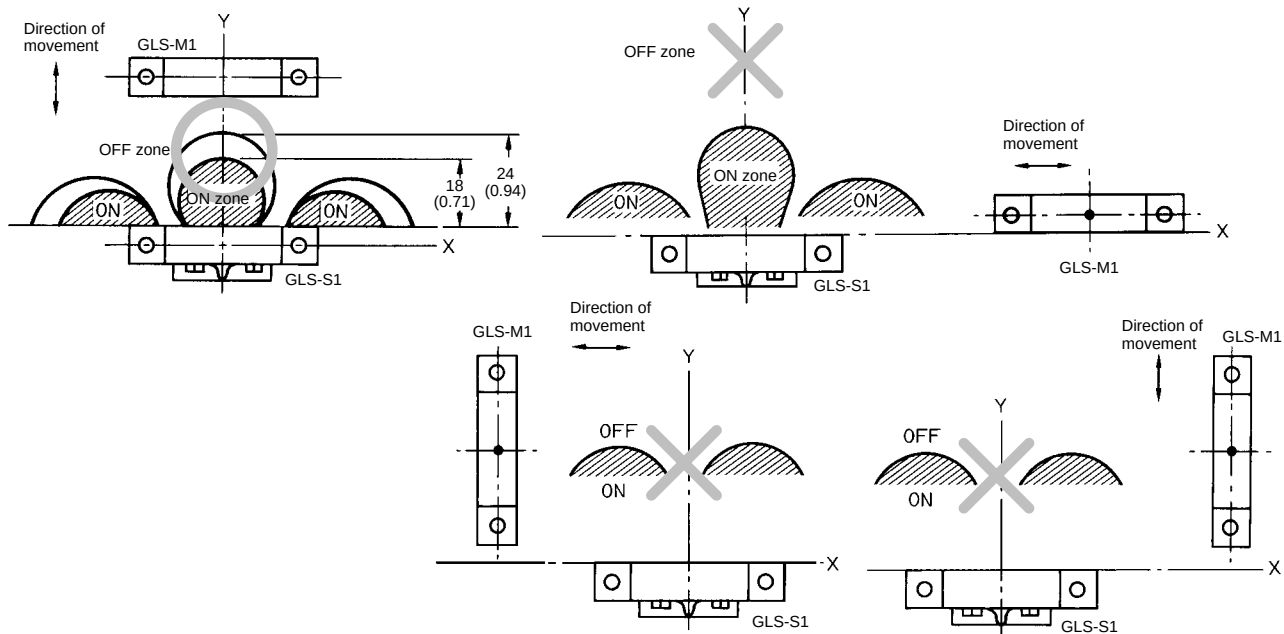
Precautions

■ MOUNTING

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

■ AVOID EXCESSIVE SHOCK

Do not impose excessive shock to the Sensor (e.g., dropping the Sensor from a height of 80 cm (31.49 in) or more), or the Sensor may malfunction.



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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