Type W2DH-01 Slim Magnetic Sensor

OMRON

Features

Magnetic sensor ideal for security of gaming machines

- Slim type.
- Providing substantial highly-sensitive detection.





Type code standard

Type <u>W2DH-01</u>

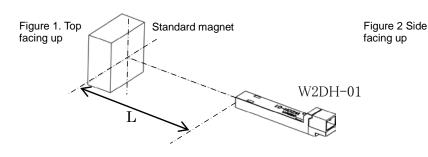
- (1) Represents a magnetic sensor
- (2) Represents a series name

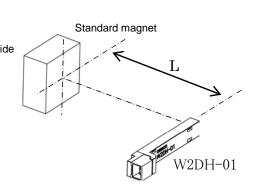
Rating/performance

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Item	Rating/performance
Detection distance (*1)	Top facing up: 70 to 90 mm Side facing up: 50 to 70 mm (reference)
Electrical rating	5 DCV (-10%) to 24 DCV (+10%) 1 to 100 mA Resistive load
Contact configuration	1 a (Normally open contact)
Contact resistance	$300~\text{m}\Omega$ or less (Default: 12 DCV 10 mA Resistive load)
Insulation resistance	100 m $Ω$ or more (Under 100 DCV)
Withstand voltage	150 ACV 50/60 Hz 1 min
Bounce time	0.5 msec or less
Vibration	Malfunction: 10 to 55 Hz, 1.5 mm double amplitude
Impact	Malfunction: 100 m/s ²
Life	1 million times or more (12 DCV 10 mA Resistive load)
Ambient temperature	When in operation: -10 to 60 deg C (must be free from freezing or condensation) When stored: -20 to 70 deg C (must be free from freezing or condensation)
Ambient humidity	25 to 85% RH

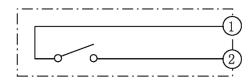
^{*1} Detection distance refers to the distance L at which non-conducting state changes into conducting state during the approach of a standard magnet to W2DH-01 under the arrangements shown in figures 1 and 2.

Standard magnet: 20 x 20 x 10 (mm)/Surface magnetic flux 430 mT (millitesla)/Direction of magnetization: direction of thickness





Connection diagram

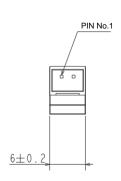


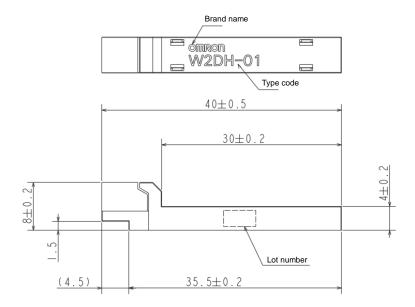
Exterior dimensions

Note:

1. The housing compatible with the connector shall be Type PHR-2 made by JST Co., Ltd.

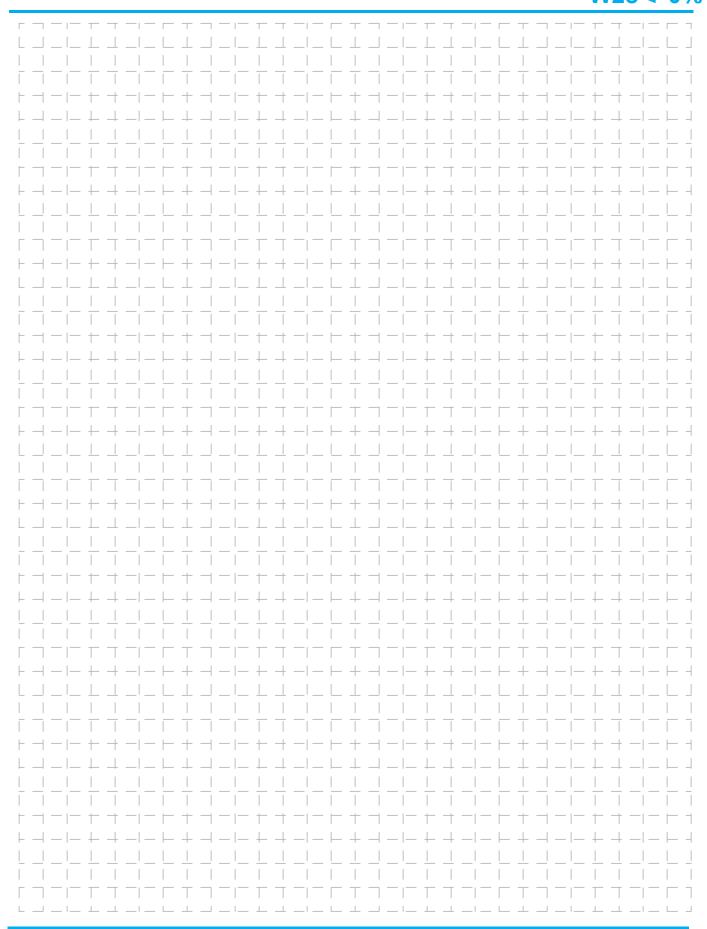
[Unit: mm]





Precautions for use

- (1) When installing the sensor near the source of magnetism generation (motor, solenoid, etc.), check that the sensor does not malfunction before using it.
- (2) The detection range of the sensor installed in an amusement machine changes depending on the arrangement of the surrounding magnetic substances (mainly metals including iron). With the surrounding magnetic substances attached, check that the detection range is appropriate before using it.





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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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Specifications subject to change without notice

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