

# Specification

## Magnetic proximity switch MHS-1005

### 1. General

MHS-1005 is a magnetic proximity switch which utilize a Hall element. MHS-1005 detects the magnetic field and identify the N pole and S pole. The outputs generate ON or OFF signal according to the detected magnetic pole. MHS-1005-N is activated by N pole and MHS-1005-S is activated by S pole. The operating magnetic field strength is set as 10 ~ 15 Gauss.

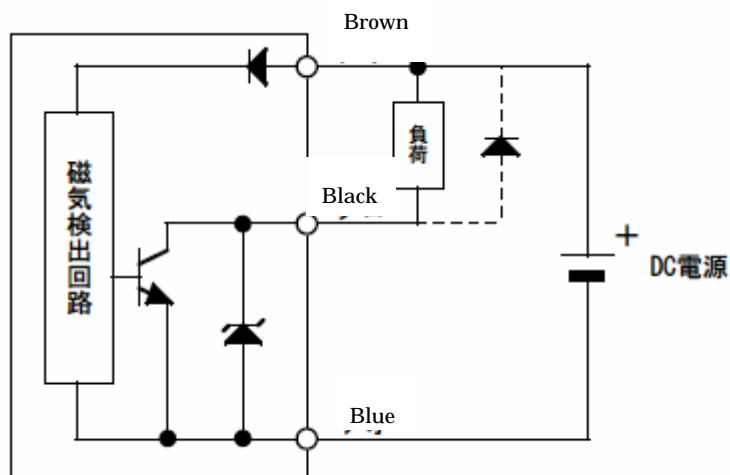


### 2. Specifications

<b>Power supply</b>	: DC+10 ~ 30V Ripple less than 1%
<b>Current consumption</b>	: Less than 12mA
<b>Activating point</b>	: $5 \pm 1$ gauss / $8 \pm 1$ gauss
<b>Hysteresis</b>	: Less than 0.3 Gauss
<b>Output</b>	: NPN Transistor Open Collector Output (Normal Open) : NPN Transistor Open Collector Output (Normal Close) Withstand voltage DC30V max. Sink current 30mA max.
<b>Response time</b>	: Less than 0.3 second
<b>Detection object</b>	: Magnet ( N pole or S pole, depends on the variation No.)
<b>Circuit protection</b>	: Power supply reverse connect, Output surge voltage
<b>Output indication</b>	: LED red
<b>Operating temperature</b>	: -10 ~ +60
<b>Operating humidity</b>	: 10 ~ 90% RH ( non-icing, non-condensing)
<b>Temperature Coefficient</b>	: Less than 0.05 Gauss/
<b>Vibration</b>	: 5 G (10 ~ 55Hz)
<b>Shock</b>	: 50 G
<b>Weight</b>	: 50g
<b>Cable</b>	: 5.1 PVC 1m length : Brown : Power supply + : Blue : 0V : Black : Output

Enclosure : White : No connection  
 : IP-65  
 Fastening Torque : 8Kgf.cm

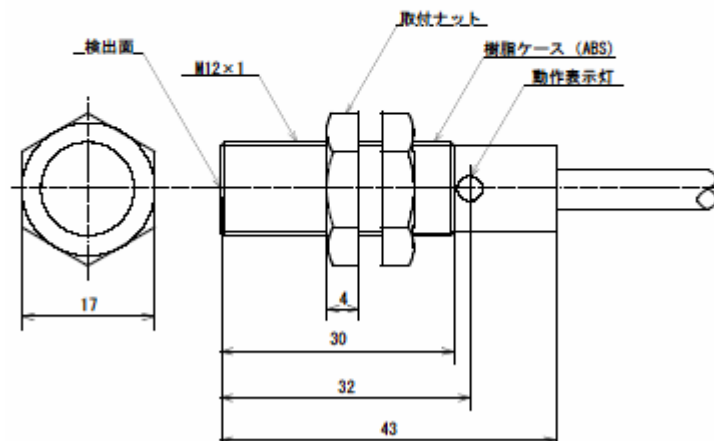
### 3. Wiring



### 4. Outline dimension

No.	Description	Material	Qty
	Plastic case	ABS ( Gray for MHS-1005-N ) ( Blue for MHS-1005-S )	1
	Cable	5.1 PVC (pig tail)	1 m
	Nut	BS ( Nickel plated)	2

MHS-1005 外形図

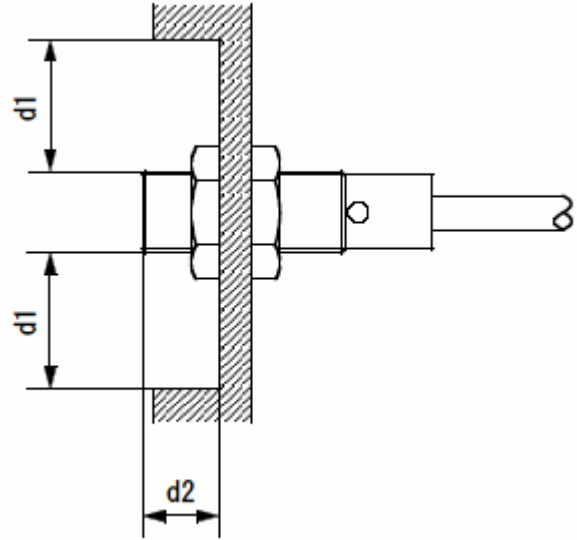


## 5. Installation

MHS-1005 should be installed away from magnetic field generating objects such as a motor to avoid false operation due to the magnetic field interference.

Since Ferro-magnetic material such as iron affects the magnetic field distribution, the activating range would be changed and distorted. To prevent this inadequate operation, the iron bracket should be kept away from the tip of the sensor as described below.

d1=20mm d2=20mm



## 6. Ordering Guide

