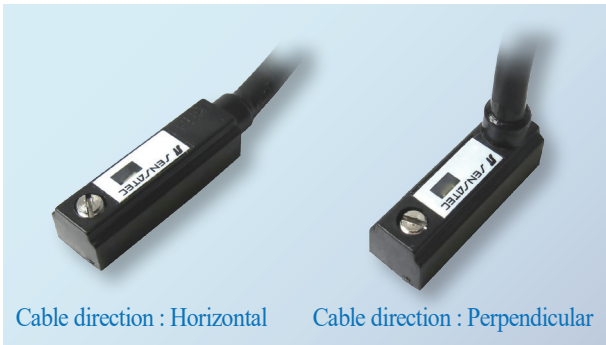


Model MGD-35CI/CL Small Electromagnetic Sensor



□Model List

Cable Direction

Horizontal	MGD-35CI
Perpendicular	MGD-35CL

Application

- Magnet detection
- The control and detection of the position of the cylinder

Characteristics

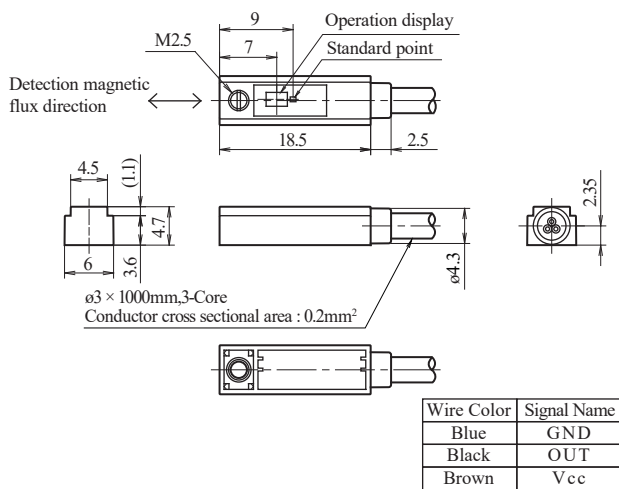
- Small flat electromagnetic sensor with a detection surface of 4.7 mm x 6 mm (front side detection) that can be installed easily in small places.
- Does not use any contact point, thus preventing poor contact problems and contact welding caused by wiring capacity.
- Cable connection available on the side or on the top.
- Equipped with a LED to display the operation.

Rating / Performance

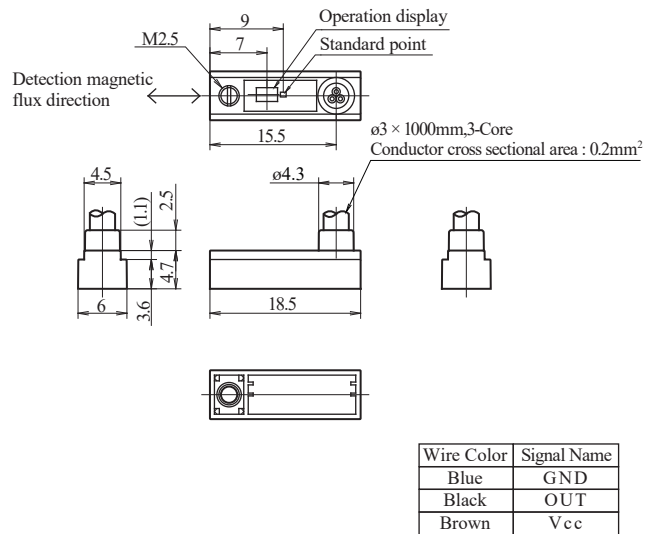
Model	MGD-35CI	MGD-35CL
Detection Surface	Front side detection	
Detection Sensitivity	Detection : 4.0 mT (40 G) or more (At the standard point), Reset : 0.5 mT (5 G) or less (At the standard point)	
Power Supply Voltage	12 V to 24 V DC (Operating voltage range : 10 V to 30 V DC)	
Power Consumption	10 mA DC or less	
Output	30 V DC 50 mA DC or less NPN transistor open collector	
Output Residual Voltage	1 V DC or less (Load current 50 mA DC)	
Operation Configuration	Normally open (On with magnetic field)	
Operation Display	Red LED (Lit when On output)	
Response Frequency	1 kHz or more	
Operating Temperature Range	-10 to 70 °C (-10 to 70 °C during storage)(Without dew condensation or freezing)	
Operating Humidity Range	95% RH or less (95% RH or less during storage)(Without dew condensation)	
Withstand Voltage	1 min at 1000 V AC 50/60 Hz (Between the live part and case)	
Insulation Resistance	50 MΩ or more measured with an ohmmeter at 500 V DC (Between the live part and case)	
Vibration Resistance	Durability : 2 hours in each X, Y, Z direction at 10 to 55 Hz and with peak-to-peak amplitude of 1.5 mm (At power off)	
Shock Resistance	Durability : 10 times at 1000 m/s ² (approx. 100 G) in each X, Y, Z direction (At power off)	
Protection Rating	IP67	
Case Material	PBT	
Cable	ø3, 3-core round cord of 0.15 mm ² and 1 m in length (Oil and heat resistant)	
Cable Direction	Horizontal	Vertical
Weight	Approx. 14 g	

External Dimensions Diagram

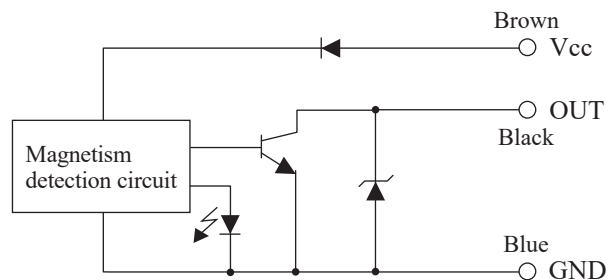
MGD-35CI (Horizontal)



MGD-35CL (Perpendicular)



Output Circuit



Reference Detection Distances

Model	Material	Detection Distance	Reset Distance
MG10-10-T	Neodymium	Approx. 23mm	Approx. 25mm
MG10-10-F	Ferrite	Approx. 11mm	Approx. 12mm

Usage Precautions

1. Do not place magnetic metal within 15 mm from the detection surface at the extremity.
2. If the object on which the electromagnetic sensor is installed is made of magnetic metal, the detection sensitivity may greatly vary. Ensure sufficient distance with magnetic metal and always verify the detection characteristics before using the sensor.
3. If there is magnetic metal with residual magnetism in the surroundings of the electromagnetic sensor installation location, the detection characteristics may greatly vary. Verify the detection characteristics before using the sensor.
4. See Electromagnetic sensor general usage precautions for other precautions.

*For a detailed specification of the other, please refer to specifications.