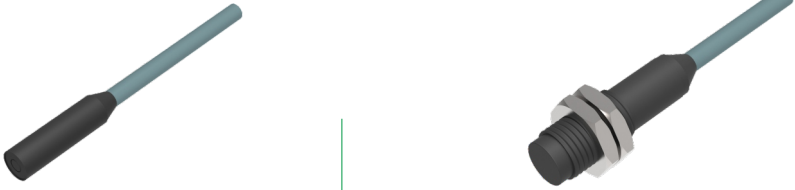


Appearance	
Feature	Can execute detection in Fe, perfect for molds and fixtures
Sensing distance*	MR-M10L: 4mm; MR-M9K: 8mm
Operating voltage	5~24V DC
Detected magnetic poles	S-pole
Magnetic sensitivity	5~7mT
Response time	5 μs
Active frequency	30Hz
Output type	NPN (N.O) (When approaching, ON)
Output current	≤15mA
Current consumption	≤15mA
Voltage withstand ability	AC1000V 1min
Insulation resistance	250V DC ≥20MΩ
Ambient temperature	-20°C~+85°C, No freezing
Ambient humidity	20%~95%RH, No condensation
Material	SUS303
Mounting	M3 screws, tightening torque ≤0.2N · m
Degree of protection	IP65
Connection	3 core cable (Length: 1m)
Model NO.	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Top surface detection: MR-P10-H</p> <p>Side surface detection: MR-P10-X HOT</p> </div> <div style="width: 45%;"> <p>S-pole detection: MR-P13-S</p> <p>N-pole detection: MR-P13-N</p> </div> </div>
Wiring diagram	See figure 1 and figure 2 on page G-07

*: Different magnets have different sensing distances

Appearance	
Feature	Built-in indicator (high sensitivity)
Sensing distance*	MR-M10L: 8mm; MR-M9K: 11mm
Operating voltage	5~24V DC
Detected magnetic poles	N-pole, S-pole optional
Magnetic sensitivity	MR-P24-S: 2.5~3.5mT, MR-P24-N: 0.9 ± 0.2mT
Active frequency	30Hz
Response time	5 μs
Output type	NPN (N.O) (When approaching, ON)
Output current	≤12mA
Current consumption	≤12mA
Voltage withstand ability	AC1000V 1min
Insulation resistance	250V DC ≥20MΩ
Ambient temperature	-20°C~+85°C, No freezing
Ambient humidity	20%~95%RH, No condensation
Material	GF strengthened PBT: black; MR-P24-S cable: grey; MR-P24-N cable: black
Mounting	M9 screws, tightening torque ≤0.5N · m (with screws)
Indicator	Red
Degree of protection	IP67
Connection	1M 3 core cable
Model NO.	<p>S-pole detection: MR-P24-S</p> <p>N-pole detection: MR-P24-N</p>
Wiring diagram	See figure 4 on page G-07

*: Different magnets have different sensing distances

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Vibration
- Temperature
- Cables
- Tester

Guidance

Magnetic

- Magnetic sensors
- High precision cylinder
- Combined cylinder
- Near iron sensor
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

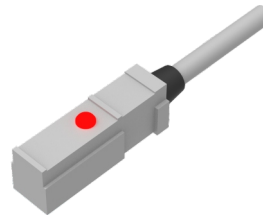
Magnetic Sensors

Magnetic



Appearance		
Feature	High sensitivity, realize N-pole and S-pole detection at the same time	IP67/protection degree, stainless steel threaded housing
Sensing distance*	MR-M10L: 13mm; MR-M9K: 20mm	MR-M10L: 6mm; MR-M9K: 8mm
Operating voltage	12~24V DC	5~24V DC
Detected magnetic poles	N-pole & S-pole detection	S-pole
Magnetic sensitivity	S-pole: 0.5 ± 0.1mT N-pole: 0.45 ± 0.1mT	3~4mT
Response time	< 16 μs	5 μs
Active frequency	40Hz	
Output type	NPN (N.O) (When approaching, ON)	
Output current	≤ 12mA	
Current consumption	On: ≤ 30mA (off ≤ 10mA)	≤ 4mA
Voltage withstand ability	AC1000V 1min	
Insulation resistance	250V DC ≥ 20MΩ	
Ambient temperature	-20°C ~ +85°C, No freezing	
Ambient humidity	20% ~ 95% RH, No condensation	
Material	SUS303	
Degree of protection	IP65	IP67
Mounting	M9 screws, tightening torque 5N · m	M6 screws, tightening torque 2N · m
Indicator	S-pole: Red N-pole: Green	Red
Connection	1M 4core cable	1M 3core cable
Model NO.	MR-P25 HOT	MR-P26
Wiring diagram	See figure 5 on page G-07	See figure 6 on page G-07

*: Different magnets have different sensing distances



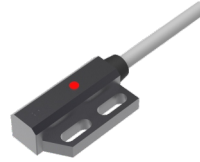
Appearance		
Feature	Built-in indicator, 2-wires output	
Sensing distance*	MR-M10L: 5mm; MR-M9K: 8mm	
Operating voltage	12~24V DC	
Detected magnetic poles	N-pole, S-pole optional	
Magnetic sensitivity	2.5~3.5mT	
Response time	50 μs	
Active frequency	30Hz	
Output current	≤ 50mA	
Leakage current	OFF, ≤ 0.5mA	
Voltage withstand ability	AC1000V 1min	
Insulation resistance	250V DC ≥ 20MΩ	
Ambient temperature	-20°C ~ +85°C, No freezing	
Ambient humidity	20% ~ 95% RH, No condensation	
Material	GF strengthened PBT	
Indicator	Red	
Degree of protection	IP67	
Connection	1M 2core cable	
Model NO.	S-pole detection: MR-P12-S N-pole detection: MR-P12-N	
Wiring diagram	See figure 7 on page G-07	

*: Different magnets have different sensing distances

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- Vibration
- Temperature
- Cables
- Tester

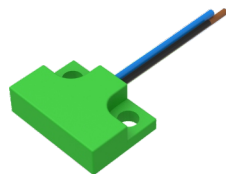
Guidance

- Magnetic**
- Magnetic sensors**
- High precision cylinder
- Combined cylinder
- Near iron sensor
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories



Appearance	
Feature	High sensitivity (can be used outdoors)
Sensing distance*	MR-M10L: 8mm; MR-M9K: 11mm
Operating voltage	5~24V DC
Detected magnetic poles	N-pole, S-pole optional
Magnetic sensitivity	0.9±0.2mT
Response time	5 μs
Active frequency	30Hz
Output type	NPN (N.O) (When approaching, ON)
Output current	≤12mA
Current consumption	≤12mA
Voltage withstand ability	AC1000V 1min
Insulation resistance	250V DC ≥20MΩ
Ambient temperature	-20°C~+85°C, No freezing
Ambient humidity	20%~95%RH, No condensation
Material	GF strengthened PBT: black
Mounting	M3 screws, tightening torque 0.3N · m
Indicator	Red
Degree of protection	IP67
Connection	1M 3core cable
Model NO.	S-pole detection: MR-PH5-S N-pole detection: MR-PH5-N
Wiring diagram	See figure 8 on page G-07

*:Different magnets have different sensing distances



Appearance	Small size, thickness 3.5mm only	Metal housing, water-proof and oil resistant
Feature		
Sensing distance*	MR-M10L: 8mm; MR-M9K: 12mm	
Operating voltage	5~24V DC	12~24V DC
Detected magnetic poles	S-pole	N-pole, S-pole optional
Magnetic sensitivity		2.5~3.5mT
Response time		5 μs
Active frequency		30Hz
Output type		NPN (N.O) (When approaching, ON)
Output current	≤15mA	≤80mA
Current consumption	≤15mA	≤12mA
Voltage withstandability		AC1000V 1min
Insulation resistance		250V DC ≥20MΩ
Ambient temperature		-20°C~+85°C, No freezing
Ambient humidity		20%~95%RH, No condensation
Material	GF strengthened PBT: Green	Die-casing Zinc alloy
Mounting	M2 screws, tightening torque 0.15N · m	M3 screws, tightening torque 1.5N · m
Degree of protection	IP65	IP67
Connection	3M 3core cable (Length:0.3m)	1M 3core cable
Model NO.	Top surface detection: MR-P4-H Size surface detection: MR-P4-X	S-pole detection: MR-P9-S N-pole detection: MR-P9-N
Wiring diagram	See figure 9 on page G-07	See figure 10 on page G-07

*:Different magnets have different sensing distances

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- Vibration
- Temperature
- Cables
- Tester

Guidance

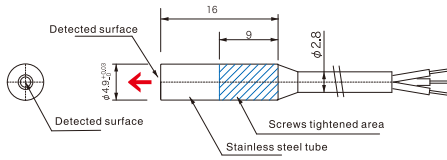
Magnetic

- Magnetic sensors**
- High precision cylinder
- Combined cylinder
- Near iron sensor
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

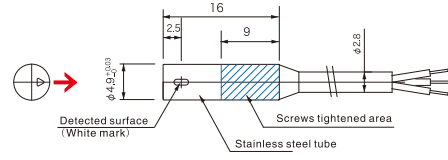
Magnetic Sensors

Dimensions(Unit:mm)

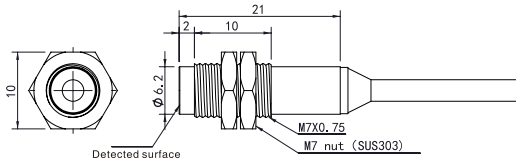
MR-P10-H



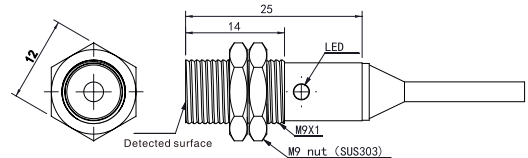
MR-P10-X



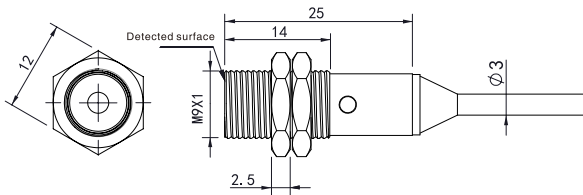
MR-P13-S(N)



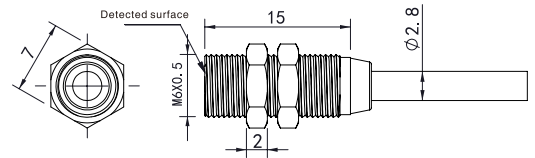
MR-P24-S(N)



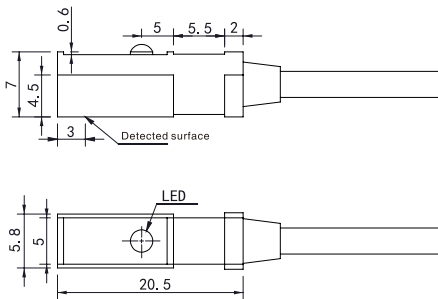
MR-P25



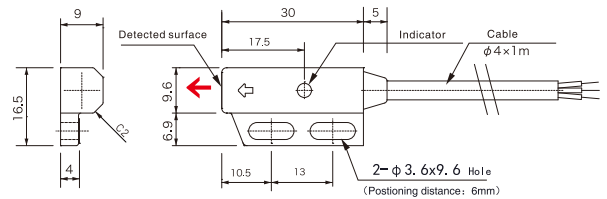
MR-P26



MR-P12-S(N)

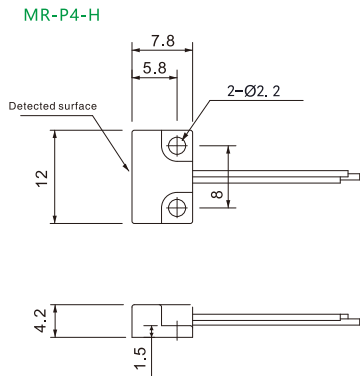


MR-PH5-S(N)

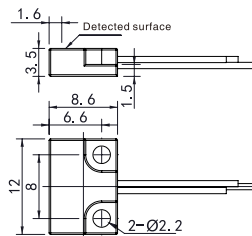


Mounting accessories: HP12-0/HP12-3/HP12-6.2/HP12-t

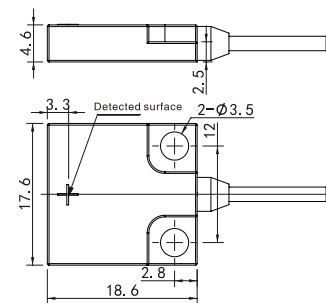
MR-P4-H(X)



MR-P4-X



MR-P9-S(N)



Mounting accessories: -BT: cable protective tube/
-BD: belt shaped mounting accessories