

High Precision Magnetic Sensors



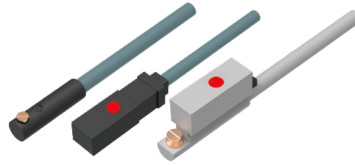
- ◎ Non-contact measurement, high reliability, ruggedness, variety
- ◎ Extreme response speed at micron level, high measurement sensitivity
- ◎ High positioning accuracy and reliable performance



Magnetic Sensors

- Small size, long duration, high sensitivity and long sensing distance
- Response Time at 5 μ s –Fastest response time
- S-pole (standard magnet pole)

P.G-05



High Precision Positioning with Reliable Performance

- High positioning precision, reliable performance
- Vibration and heat resistance
- Response time less than 5 μ s (3-wire type)

P.G-14



Economical Cylinder Sensor

- High positioning accuracy, reliable performance
- Maximum switching frequency up to 1000 Hz

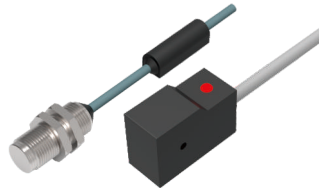
P.G-20



Environmental Resistance Cylinder Sensors

- Full metal material, reliable performance
- Vibration and heat resistance
- Maximum switching frequency up to 1000HZ

P.G-25



Magnetic Proximity Sensors

- Proximity sensors that detect ferromagnetism materials, such as iron
- No reaction to aluminum and non-ferromagnetic stainless steel
- Can be used on CNC machines, refrigerating equipments, on-standard positioning equipments etc.

P.G-26



Door Sensors

- Small size, excellent sensitivity
- Non-contact, long life and highly reliable
- With magnetic hole (φ 12), it still performs well even fixed inside iron doors

P.G-28



Linear Sensors

- Output voltage varies linearly with magnetic force
- Output voltage changes linearly according to the movements of magnets
- It can be used from low to high temperature

P.G-31

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

Magnetic







- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

Magnetic Sensors




Appearance	Size	Sensing distance*	Detected poles	Model number	Pages
	φ 4.9X16mm	MR-M10L: 4mm MR-M9K: 8mm	S-pole	Top surface detection	MR-P10-H
				Side surface detection	MR-P10-X (HOT)
	φ 6.2X21mm	MR-M10L: 8mm MR-M9K: 10mm	N-pole, S-pole optional	S-pole detection	MR-P13-S
				N-pole detection	MR-P13-N
	M9X25mm	MR-M10L: 8mm MR-M9K: 11mm	N-pole, S-pole optional	S-pole detection	MR-P24-S
				N-pole detection	MR-P24-N
	M9X25mm	MR-M10L: 13mm MR-M9K: 20mm	N-pole & S-pole detection	N-pole & S-pole detection	MR-P25 (HOT)
	M6X15mm	MR-M10L: 6mm MR-M9K: 8mm	S-pole	S-pole detection	MR-P26
	7X5.8X20.5mm	MR-M10L: 5mm MR-M9K: 8mm	N-pole, S-pole optional	S-pole detection	MR-P12-S
				N-pole detection	MR-P12-N
	9X9.6X30mm	MR-M10L: 8mm MR-M9K: 11mm	N-pole, S-pole optional	S-pole detection	MR-PH5-S
				N-pole detection	MR-PH5-N
	12X7.8X4.2mm	MR-M10L: 8mm MR-M9K: 12mm	S-pole	Top surface detection	MR-P4-H
				Side surface detection	MR-P4-X
	17.6X18.6X4.6mm	MR-M10L: 8mm MR-M9K: 12mm	N-pole, S-pole optional	S-pole detection	MR-P9-S
				N-pole detection	MR-P9-N

*:Different magnets have different sensing distances

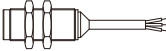
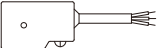
High Precision Combined Cylinder Sensors

Appearance	Size	Detected poles	Suitable applications	Model number	Pages
	6.1X5.1X20mm	N-pole and S-pole, optional	T shaped slot	MR-C6	G-14
	5.8X7X20.5mm	N-pole and S-pole, optional	T shaped slot	MR-C12	
	φ 4X14.5mm	N-pole and S-pole, optional	C shaped slot	MR-C7	G-16
	4X5.5X24.5mm	N-pole and S-pole, optional	C shaped slot	MR-C8-C	
	4X5.5X24.5mm	N-pole and S-pole, optional	U shaped slot	MR-C8-U	
	5X10X22.2mm	N-pole and S-pole, optional	C shaped slot	MR-C13-C	
	5X10X22.2mm	N-pole and S-pole, optional	U shaped slot	MR-C13-U	
	17.6X18.6X5.1mm	N-pole and S-pole, optional	External usage	MR-C92	G-18
	17.6X18.6X5.1mm	N-pole and S-pole, optional	External usage	MR-C9	
	17.6X18.6X4.6mm	N-pole and S-pole, optional	External usage	MR-C9-E	







Economical/Magnetic Proximity Sensors

Appearance	Size	Sensing distance		Model number	Pages
	31.4*6.2*4.3mm	Normally Open	200Hz/ 1000Hz	MR-30/30G/30N/P	G-20
	15.1*4*5mm	Normally Open	1000Hz	MR-C80	G-22
				MR-C81	G-23
				MR-C86	G-24
	14.3*4*4.7mm	Normally Open	1000Hz	MR-70	G-25



Magnetic Proximity Sensors

Appearance	Size	Sensing distance		Model number	Pages
	M10X22.8mm	1mm(Iron wire ϕ 1)	Normally open, without LED indicator	MR-F11	G-26
		2mm(High-speed steel drill ϕ 2)	Normally open, with LED indicator	MR-F11-LED	
		2mm(Square iron20Xt1)	Normally closed, without LED indicator	MR-F11-B	
			Normally closed, with LED indicator	MR-F11-B-LED	
	9X14X21mm	6mm(Square iron30Xt10)	Normally open	MR-F2	G-27
		4mm(Square iron30Xt2)	Normally closed	MR-F2-B	

Door Sensors

Appearance	Size	Detected poles	Model number	Pages
	14X14X34mm	Upward detection	MR-D2	G-28
	14X14X34mm	Upward detection	MR-D2P	
 Matching magnet	14X14X34mm	Upward detection	MR-DM2	
	14X14X34mm	Sideway detection	MR-D2X	
	14X14X34mm	Sideway detection	MR-D2XP	
 Matching magnet	14X14X34mm	Sideway detection	MR-DM2X	

Linear Sensors

Appearance	Size	Detected poles		Model Number	Pages
	8.6X12X3.5mm	Detect N-pole and S-pole simultaneously	Frontal Detection	MR-L4	G-31
	7.8X12X4.2mm	Detect N-pole and S-pole simultaneously	Sideway Detection	MR-L4-H	
	ϕ 4.9X16mm	Detect N-pole and S-pole simultaneously	Sideway Detection	MR-L10X	

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- Vibration
- Temperature
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- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

- Magnetic**
- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

Magnetic Sensors



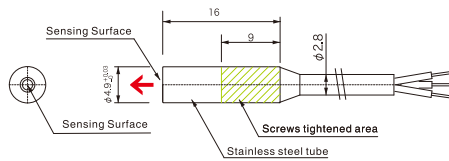
Basic features	Operating Principle	Magnetic	
	Shell Style	Cylindrical	
	Detection Range*	MR-M10L: 4mm; MR-M9K: 8mm	MR-M10L: 8mm; MR-M9K: 10mm
	Detection of Magnetic Poles	S Pole	Optional N and S Pole Models
	Magnetic Sensitivity	5~7mT	2.5~3.5mT
	Indicator Light	-	
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)	
	Operating Voltage	5~24V DC	
	Output Current	≤15mA	
	Power Consumption	≤15mA	
	Response Speed	5μs	
	Operating Frequency	30Hz	
Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing	
	Operating Humidity	20%~95%RH, No Condensation	
	Dielectric Strength	AC1000V for 1 minute	
	Insulation Strength	250V DC ≥ 20MΩ	
	Protection Level	IP65	IP65
Mechanical data	Mounting Method	Fix the M3 screws with a torque of less than 0.2 N·m	M7 Nut with Installation Torque of 0.3N·m
	Connection Method	1M/3-core Cable	
	Dimensions	Φ4.9x16mm	Φ6.2x21mm
	Material	SUS303	GF reinforced PBT: gray; MR-P13-S cable in gray color, MR-P13-N cable in black color
	Weight	about 13.4g	
	Model	Head Detection: MR-P10-H Side Detection: MR-P10-X HOT	Detects South Pole:MR-P13-S Detects North Pole:MR-P13-N

* : Induction distance varies with different magnets

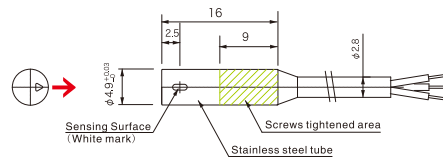
Dimensions

Unit:mm

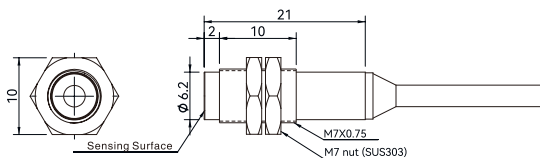
MR-P10-H

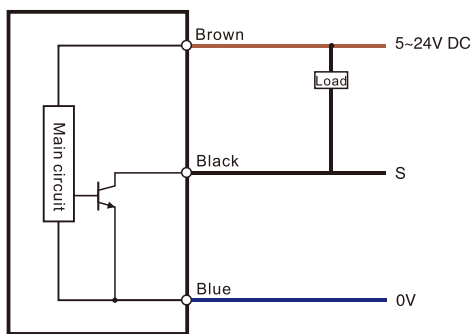


MR-P10-X



MR-P13-S(N)





Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Magnetic

Magnetic sensors

High precision cylinder

Economic cylinder

Environmental cylinder

Magnetic Proximity

Door sensors

Linear sensors

Ordinary magnets

High precision composite magnets

Mounting accessories

Magnetic Sensors

Magnetic

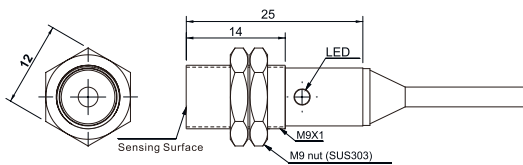


Basic features	Operating Principle	Magnetic	
	Shell Style	Cylindrical	
	Detection Range*	MR-M10L: 8mm; MR-M9K: 11mm	
	Detection of Magnetic Poles	Optional N and S Pole Models	
	Magnetic Sensitivity	MR-P24-S: 2.5~3.5mT、MR-P24-N: 0.9±0.2mT	
	Indicator Light	Red	
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)	
	Operating Voltage	5~24V DC	
	Output Current	≤12mA	
	Power Consumption	≤12mA	
	Response Speed	5μs	
	Operating Frequency	30Hz	
Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing	
	Operating Humidity	20%~95%RH, No Condensation	
	Dielectric Strength	AC1000V for 1 minute	
	Insulation Strength	250V DC ≥20MΩ	
	Protection Level	IP67	
Mechanical data	Mounting Method	Fix the M9 screws with a torque of less than 0.5 N·m	
	Connection Method	1M/3-core Cable	
	Dimensions	M9x25mm	
	Material	GF reinforced PBT: gray; MR-P24-S cable in gray color, MR-P24-N cable in black color	
	Weight	about 21g	
	Model		Detects South Pole: MR-P24-S
			Detects North Pole: MR-P24-N

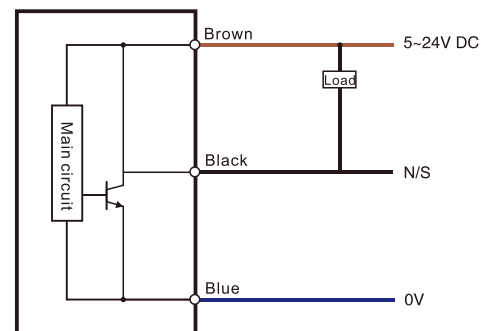
* : Induction distance varies with different magnets

Dimensions

Unit:mm



Circuit diagram





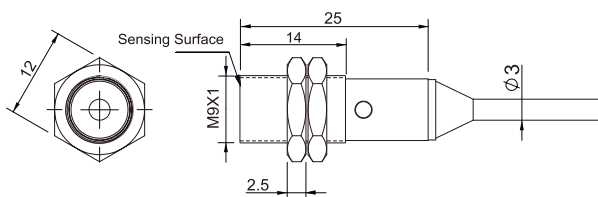
Basic features	Operating Principle	Magnetic	
	Shell Style	Cylindrical	
	Detection Range*	MR-M10L: 13mm; MR-M9K: 20mm	MR-M10L: 6mm; MR-M9K: 8mm
	Detection of Magnetic Poles	Simultaneously detect the N pole and the S pole	
	Magnetic Sensitivity	S Pole : 0.5±0.1mT N Pole: 0.45±0.1mT	3~4mT
	Indicator Light	S Pole: Red N Pole: Green	Red
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)	
	Operating Voltage	12~24V DC	5~24V DC
	Output Current	≤12mA	
	Power Consumption	During operation: ≤30mA (≤10mA when not in operation) ≤4mA	
	Response Speed	≤16 μs	5 μs
	Operating Frequency	40Hz	
Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing	
	Operating Humidity	20%~95%RH, No Condensation	
	Dielectric Strength	AC1000V for 1 minute	
	Insulation Strength	250V DC ≥20MΩ	
	Protection Level	IP65	IP67
Mechanical data	Mounting Method	M9 Screw with Installation Torque of 5N·m	M6 Screw with Installation Torque of 2N·m
	Connection Method	1M/4-core Cable	1M/3-core Cable
	Dimensions	M9x25mm	M6x15mm
	Material	SUS303	
	Weight	about 21g	
Model	MR-P25 (HOT)	MR-P26	

* : Induction distance varies with different magnets

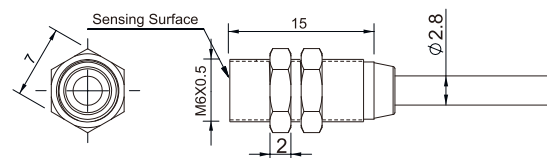
Dimensions

Unit:mm

MR-P25



MR-P26



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

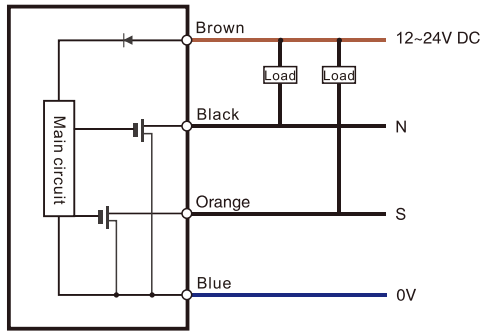
Magnetic

- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

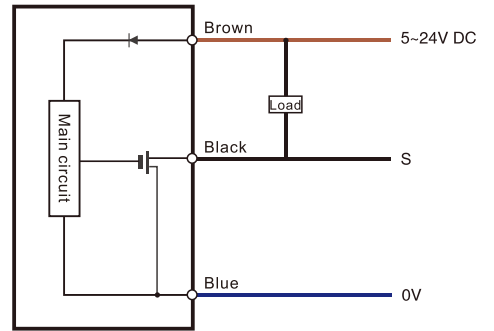
Magnetic Sensors

Circuit diagram

MR-P25



MR-P26



Fiber Optic

Slot Sensors

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Laser

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Magnetic sensors

High precision cylinder

Economic cylinder

Environmental cylinder

Magnetic Proximity

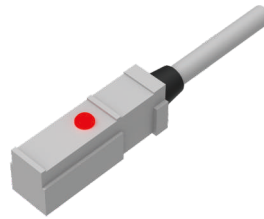
Door sensors

Linear sensors

Ordinary magnets

High precision composite magnets

Mounting accessories

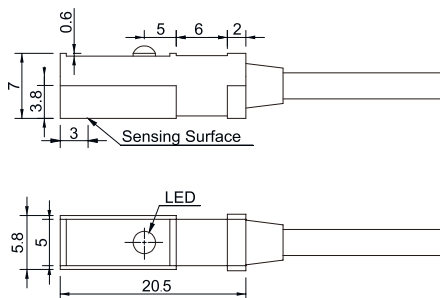


Basic features	Operating Principle	Magnetic
	Shell Style	Square
	Detection Range*	MR-M10L: 5mm; MR-M9K: 8mm
	Detection of Magnetic Poles	Optional N and S Pole Models
	Magnetic Sensitivity	2.5~3.5mT
	Indicator Light	Red
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)
	Operating Voltage	12~24V DC
	Output Current	≤50mA
	Power Consumption	No Indicator Light: 15mA MAX, With Indicator Light: 12mA MAX
	Response Speed	50 μs
	Operating Frequency	30Hz
Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing
	Operating Humidity	20%~95%RH, No Condensation
	Dielectric Strength	AC1000V for 1 minute
	Insulation Strength	250V DC ≥ 20MΩ
	Protection Level	IP67
Mechanical data	Mounting Method	-
	Connection Method	1M/2-core Cable
	Dimensions	7x5.8x20.5mm
	Material	GF Reinforced PBT
	Weight	about 13.9g
Model		Detects South Pole: MR-P12-S
		Detects North Pole: MR-P12-N

* : Induction distance varies with different magnets

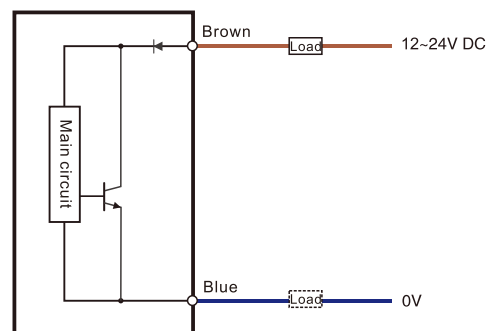
Dimensions

Unit:mm



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

Circuit diagram



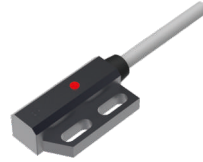
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Guidance

Magnetic

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Magnetic Sensors



Basic features	Operating Principle	Magnetic
	Shell Style	Square
	Detection Range*	MR-M10L: 8mm; MR-M9K: 11mm
	Detection of Magnetic Poles	Optional N and S Pole Models
	Magnetic Sensitivity	0.9±0.2mT
	Indicator Light	Red
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)
	Operating Voltage	5~24V DC
	Output Current	≤12mA
	Power Consumption	≤12mA
	Response Speed	5 μs
	Operating Frequency	30Hz
Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing
	Operating Humidity	20%~95%RH, No Condensation
	Dielectric Strength	AC1000V for 1 minute
	Insulation Strength	250V DC ≥20MΩ
	Protection Level	IP67
Mechanical data	Mounting Method	M3 Screw with Installation Torque of 0.3N·m
	Connection Method	1M/3-core Cable
	Dimensions	9x9.6x30mm
	Material	GF Reinforced PBT: Black
	Weight	about 23.8g
	Model	<p>Detects South Pole: MR-PH5-S</p> <p>Detects North Pole: MR-PH5-N</p>

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Guidance

Magnetic

Magnetic sensors

High precision cylinder

Economic cylinder

Environmental cylinder

Magnetic Proximity

Door sensors

Linear sensors

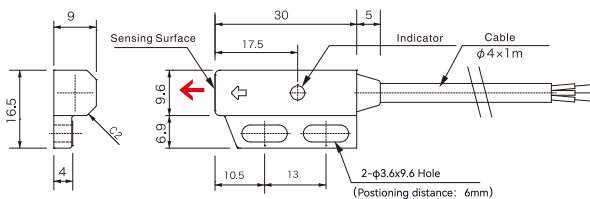
Ordinary magnets

High precision composite magnets

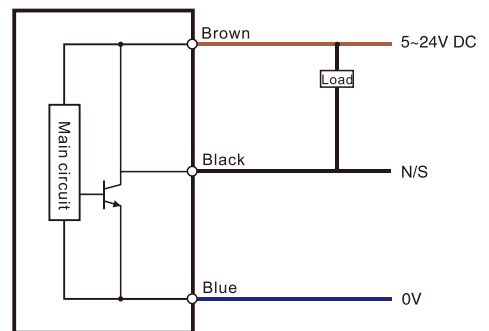
Mounting accessories

Dimensions

Unit:mm



Circuit diagram





Basic features	Operating Principle	Magnetic	
	Shell Style	Square	
	Detection Range*	MR-M10L: 8mm; MR-M9K: 12mm	
	Detection of Magnetic Poles	S Pole	Optional N and S Pole Models
	Magnetic Sensitivity	2.5~3.5mT	
	Indicator Light	-	
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)	
	Operating Voltage	5~24V DC	12~24V DC
	Output Current	≤15mA	≤80mA
	Power Consumption	≤15mA	≤12mA
	Response Speed	5 μs	
	Operating Frequency	30Hz	
	Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing
Operating Humidity		20%~95%RH, No Condensation	
Dielectric Strength		AC1000V for 1 minute	
Insulation Strength		250V DC ≥20MΩ	
Protection Level		IP65	IP67
Mechanical data		Mounting Method	M2 Screw with Installation Torque of 0.15N·m
	Connection Method	0.3M/3-core Cable	1M/3-core Cable
	Dimensions	7.8x12x4.2mm	17.6x18.6x4.6mm
	Material	GF Reinforced PBT: Green	Zinc Alloy
	Weight	about 19g	
	Model	Head Detection: MR-P4-H Side Detection: MR-P4-X	Detects South Pole: MR-P9-S Detects North Pole: MR-P9-N

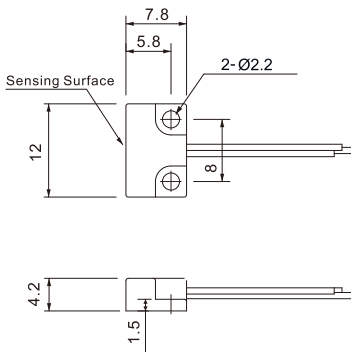
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Dimensions

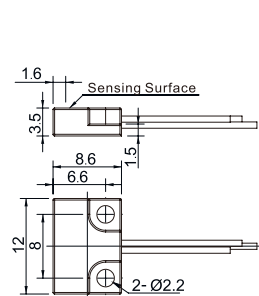
Unit:mm

MR-P4-H(X)

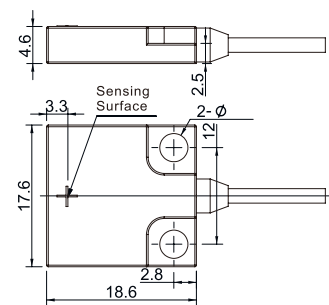
MR-P4-H



MR-P4-X



MR-P9-S(N)



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

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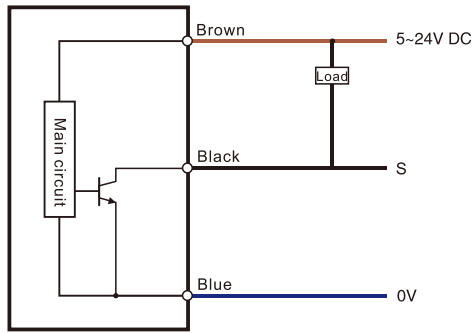
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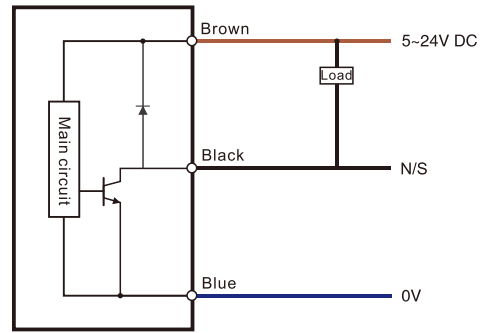
Magnetic Sensors

Circuit diagram

MR-P4



MR-P9



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

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Accessories

Guidance

Magnetic

Magnetic sensors

High precision cylinder

Economic cylinder

Environmental cylinder

Magnetic Proximity

Door sensors

Linear sensors

Ordinary magnets

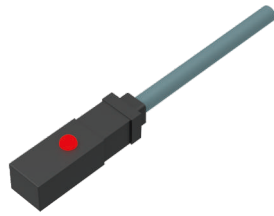
High precision composite magnets

Mounting accessories

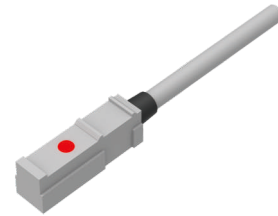
High Precision Cylinder Sensors

Magnetic

3-wire



2-wire



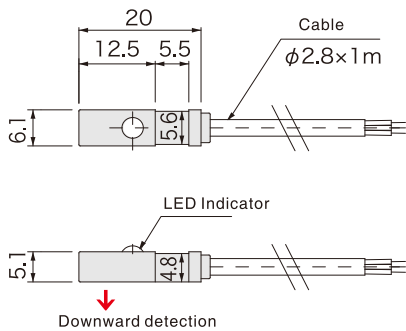
Basic features	Operating Principle	Magnetic	
	Shell Style	Square	
	Applicable Groove Type	Shape T	
	Detection of Magnetic Poles	Optional N and S Pole Models	
	Magnetic Sensitivity	2.5~3.5mT	
	Indicator Light	Red	
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)	...
	Operating Voltage	5~24V DC	12~24V DC
	Output Current	≤12mA	≤50mA
	Power Consumption	≤12mA	...
	Response Speed	5 μs	50 μs
Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing	
	Operating Humidity	20%~95%RH, No Condensation	
	Dielectric Strength	AC1000V for 1 minute	
	Insulation Strength	250V DC ≥20MΩ	
	Protection Level	IP67	
Mechanical data	Mounting Method	-	
	Connection Method	1M/3-core Cable	1M/2-core Cable
	Dimensions	6.1x5.1x20mm	5.8x7x20.5mm
	Material	GF Reinforced PBT: Black	GF Reinforced PBT: Gray
	Weight	about 14.4g	
Model		MR-C6-S	MR-C12-S
		MR-C6-N	MR-C12-N

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

Dimensions

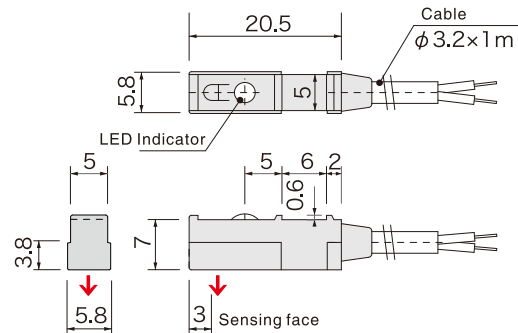
Unit:mm

MR-C6



Mounting accessories: HP3-1/HP3-2/HP3-3/HP3-4

MR-C12



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

Magnetic

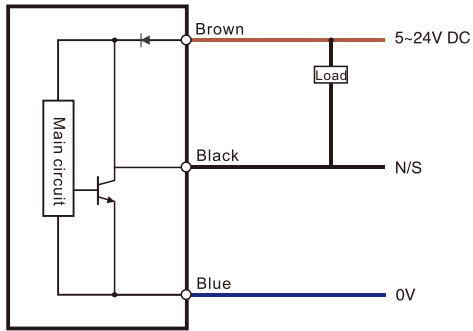
Magnetic sensors
High precision cylinder
Economic cylinder
Environmental cylinder
Magnetic Proximity
Door sensors
Linear sensors
Ordinary magnets
High precision composite magnets
Mounting accessories

High Precision Cylinder Sensors

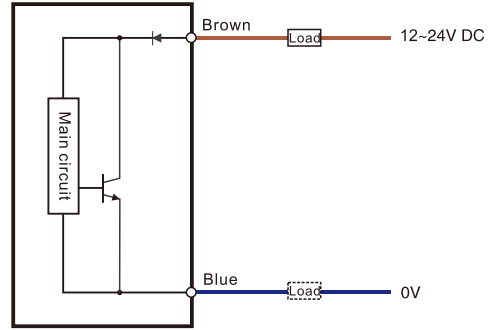
Circuit diagram

Magnetic

MR-C6



MR-C12



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Magnetic

Magnetic sensors

High precision cylinder

Economic cylinder

Environmental cylinder

Magnetic Proximity

Door sensors

Linear sensors

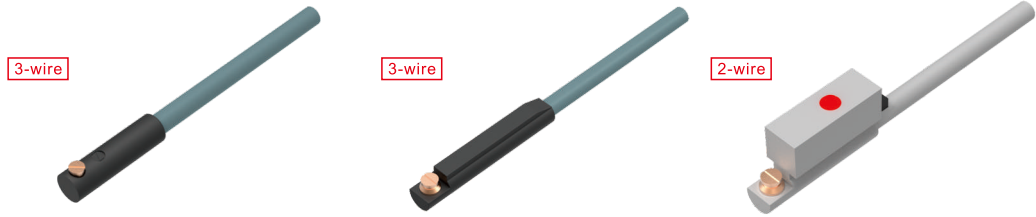
Ordinary magnets

High precision composite magnets

Mounting accessories

High Precision Cylinder Sensors

Magnetic



Basic features	Operating Principle	Magnetic				
	Shell Style	Square				
	Applicable Groove Type	Shape C		Shape U	Shape C	
	Detection of Magnetic Poles	Optional N and S Pole Models				
	Magnetic Sensitivity	4.5~6mT		2.5~3.5mT		
	Indicator Light	Distance from Main Body: Approximately 100mm		Red		
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)		...		
	Operating Voltage	5~24V DC		12~24V DC		
	Output Current	≤12mA		≤50mA		
	Power Consumption	≤12mA		...		
	Response Speed	5 μs		50 μs		
Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing				
	Operating Humidity	20%~95%RH, No Condensation				
	Dielectric Strength	AC1000V for 1 minute				
	Insulation Strength	250V DC≥20MΩ				
	Protection Level	IP67				
Mechanical data	Mounting Method	-				
	Connection Method	1M/3-core Cable		1M/2-core Cable		
	Dimensions	Φ4x14.5mm	4x5.5x24.5mm		5x10x22.2mm	
	Material	GF Reinforced PBT: Black		GF Reinforced PBT: Gray		
	Weight	about 11.3g		about 14.4g		
Model	Detects South Pole	MR-C7-S	MR-C8-C-S	MR-C8-U-S	MR-C13-C-S	MR-C13-U-S
	Detects North Pole	MR-C7-N	MR-C8-C-N	MR-C8-U-N	MR-C13-C-N	MR-C13-U-N

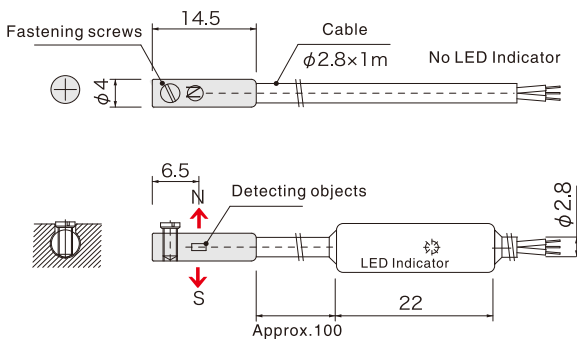
Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

Guidance

Dimensions

Unit:mm

MR-C7



Magnetic

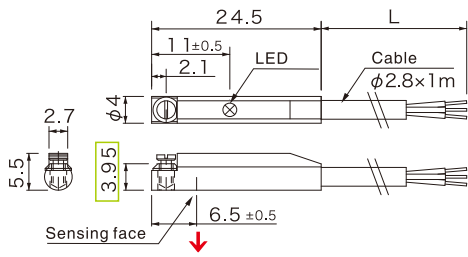
Magnetic sensors
High precision cylinder
Economic cylinder
Environmental cylinder
Magnetic Proximity
Door sensors
Linear sensors
Ordinary magnets
High precision composite magnets
Mounting accessories

High Precision Cylinder Sensors

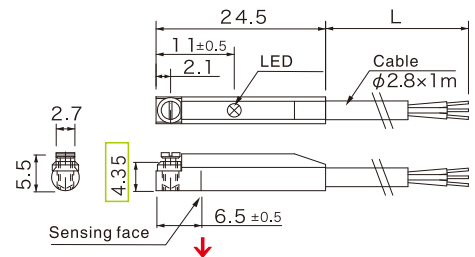
Dimensions

Unit:mm

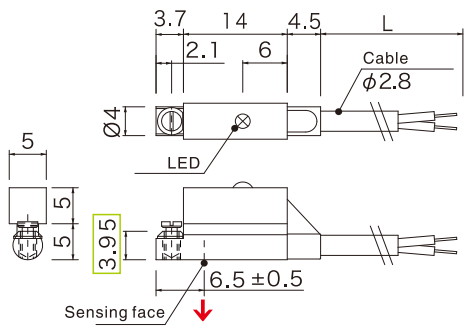
MR-C8(C shaped slot)



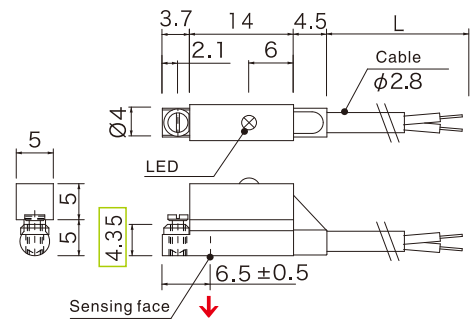
MR-C8(U shaped slot)



MR-C13(C shaped slot)

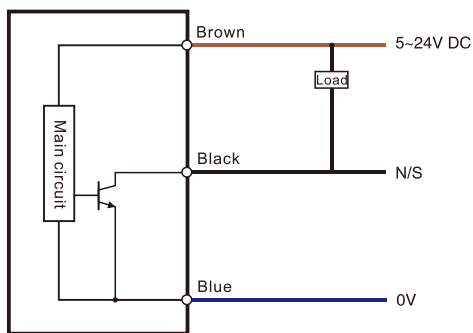


MR-C13(U shaped slot)

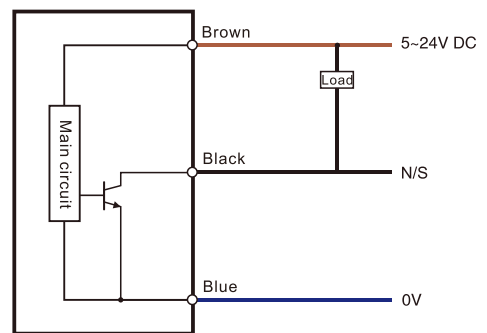


Circuit diagram

MR-C7



MR-C8

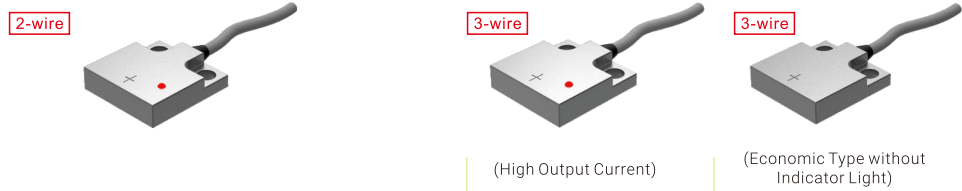


- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

- Guidance
- Magnetic**
 - Magnetic sensors
 - High precision cylinder**
 - Economic cylinder
 - Environmental cylinder
 - Magnetic Proximity
 - Door sensors
 - Linear sensors
 - Ordinary magnets
 - High precision composite magnets
 - Mounting accessories

High Precision Cylinder Sensors

Magnetic



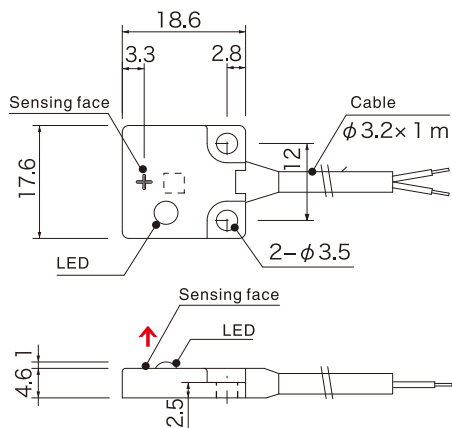
Basic features	Operating Principle	Magnetic		
	Shell Style	Square		
	Applicable Groove Type	External		
	Detection of Magnetic Poles	Optional N and S Pole Models		
	Magnetic Sensitivity	2.5~3.5mT		
	Indicator Light	Red	None	
Electrical data	Output Mode	...	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)	
	Operating Voltage	12~24V DC	5~24V DC	
	Output Current	50mA MAX	≤12mA	
	Power Consumption	...	≤12mA	
	Response Speed	50 μs	5 μs	
Environmental conditions	Operating Temperature	-20°C~+85°C, No Freezing		
	Operating Humidity	20%~95%RH, No Condensation		
	Dielectric Strength	AC1000V for 1 minute		
	Insulation Strength	250V DC≥20MΩ		
	Protection Level	IP67		
Mechanical data	Mounting Method	Comes with Screw Installation Torque of 1.5N·m	M3 Stainless Steel Screw with Installation Torque of 1.5N·m	
	Connection Method	1M/2-core Cable	1M/3-core Cable	
	Dimensions	18.6x17.6x5.6mm	18.6x17.6x5.6mm	18.6x17.6x4.6mm
	Material	Zinc Alloy		
	Weight	about 20g		
Model	Detects South Pole	MR-C92-S	MR-C9-S	MR-C9-E-S
	Detects North Pole	MR-C92-N	MR-C9-N	MR-C9-E-N

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

Dimensions

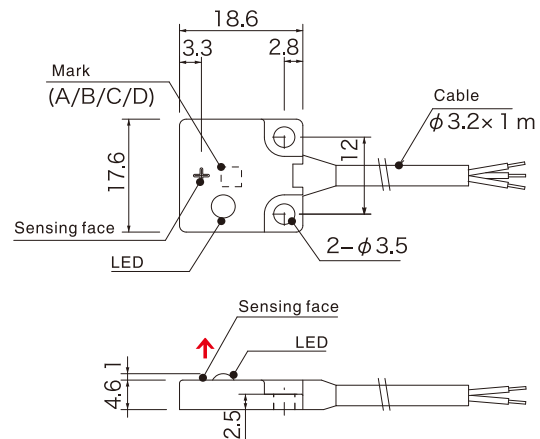
Unit:mm

MR-C92



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

MR-C9



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

Guidance

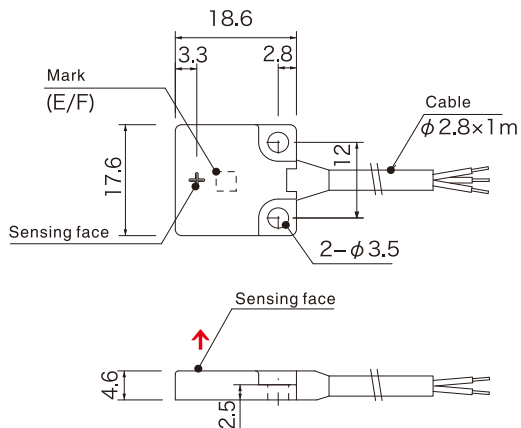
Magnetic
Magnetic sensors
High precision cylinder
Economic cylinder
Environmental cylinder
Magnetic Proximity
Door sensors
Linear sensors
Ordinary magnets
High precision composite magnets
Mounting accessories

High Precision Cylinder Sensors

Dimensions

Unit:mm

MR-C9-E(No LED)

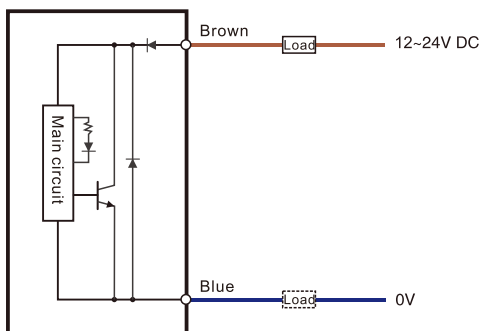


Mounting accessories:

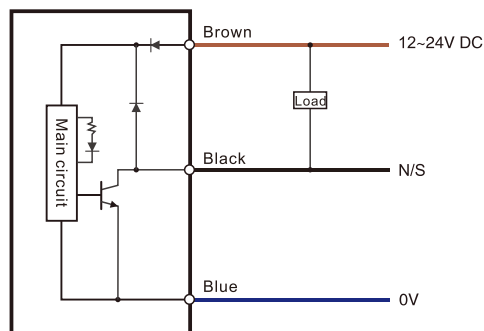
-BT:cable protective tube/-BD:belt shaped mounting accessories

Circuit diagram

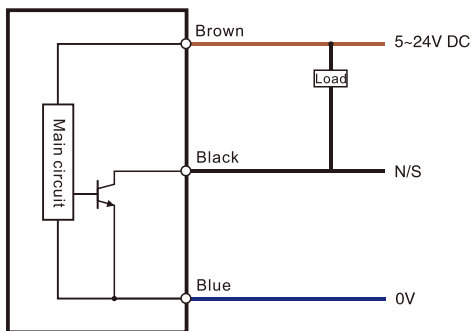
MR-C92



MR-C9



MR-C9-E



Magnetic

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Magnetic

Magnetic sensors

High precision cylinder

Economic cylinder

Environmental cylinder

Magnetic Proximity

Door sensors

Linear sensors

Ordinary magnets

High precision composite magnets

Mounting accessories

Economical Cylinder Sensor

Magnetic



Economical Type

Basic features	Operating Principle	Magnetic			
	Shell Style	Square			
	Indicator Light	Red LED		Green LED	
Electrical data	Switching Logic	SPST Normally Open Type	Electronic Type: Normally Open	Electronic Type: Contactless; Normally Open	
	Switch Type	Contact Reed Switch Type	Two-wire Contactless Transistor Type	Contactless Transistor NPN Type Contactless Transistor PNP Type	
	Sensitivity	40G	25-1000G		
	Maximum Switching Frequency	200Hz	1000Hz		
	Operating Voltage	5~24V DC	10~28V DC	5~30V DC	
	Maximum Switching Current	100mA Max	50mA Max	200mA Max	
	Power Consumption	None	40μA Max.@24V	14mA Max@24V(Switch Active)	
	Leakage Current	None	90μA Max.@28v	0.01mA Max	
	Maximum Switching Capacitance	10W Max	1.4W Max	6W Max	
	Residual Voltage Drop	2.5V Max@100mA DC	2.65V Max@50mA DC	0.5V Max@200mA DC	
	Suitable Load	-			
	Protection Circuit	None	Surge Absorption Protection	Reverse Polarity Protection; Surge Absorption Protection; Short Circuit Protection	
Environmental conditions	Operating Temperature	-10~70°C			
	Shock Resistance	30G	50G		
	Vibration Resistance	9G			
	Protection Level	IP67(EN6052)			
Mechanical data	Connection Method	2.9 φ ,2C,Gray Oil-resistant PVC	2.9 φ ,2C,Gray Oil-resistant TPU	2.9 φ ,3C,Gray Oil-resistant TPU	
	Dimensions	31.4x6.2x4.3mm			
	Material	Plastic			
	Weight	about 23.5g			
	Model	MR-30	MR-30G	MR-30N	MR-30P

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

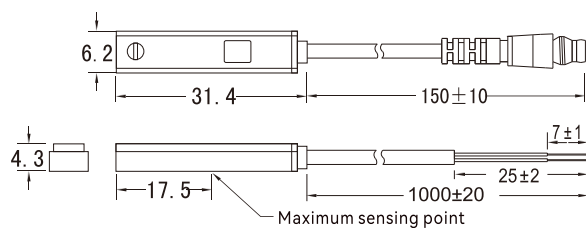
Magnetic

- Magnetic sensors
- High precision cylinder
- Economic cylinder**
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

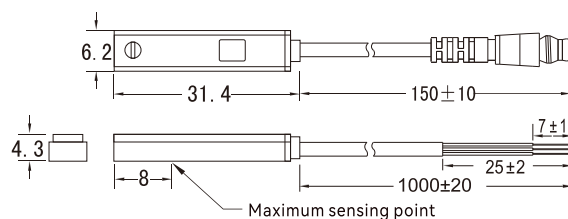
Dimensions

Unit:mm

MR-30R/G



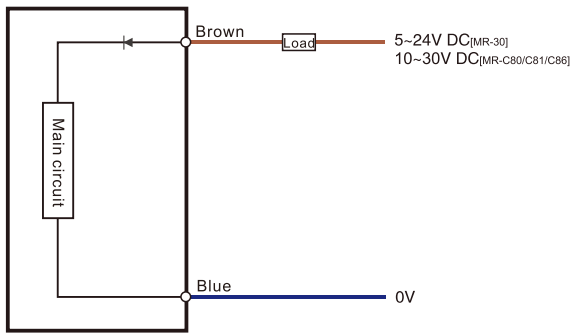
MR-30N/P



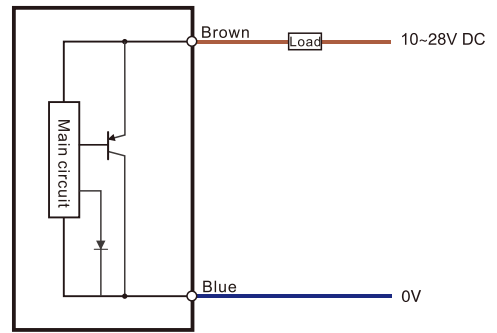
Economical Cylinder Sensor

Circuit diagram

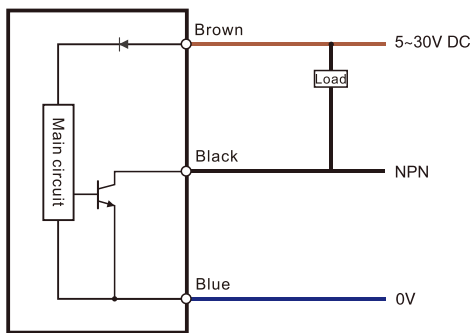
MR-30/C80/C81/C86



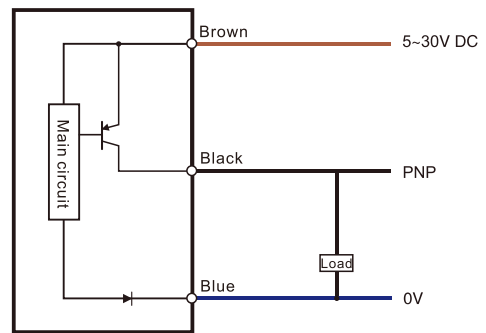
MR-30G



MR-30N



MR-30P



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Magnetic

Magnetic sensors

High precision cylinder

Economic cylinder

Environmental cylinder

Magnetic Proximity

Door sensors

Linear sensors

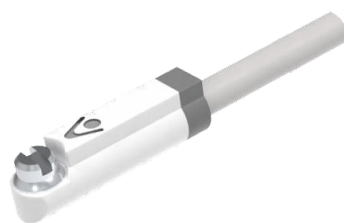
Ordinary magnets

High precision composite magnets

Mounting accessories

Economical Cylinder Sensor

Magnetic



Economical Type

Basic features	Operating Principle	Magnetic
	Shell Style	Square
	Indicator Light	Red LED
Electrical data	Switching Logic	Electronic Type: Normally Open
	Switch Type	Two-wire Contactless Transistor Type
	Sensitivity	25-1000G
	Maximum Switching Frequency	1000Hz
	Operating Voltage	10~30V DC
	Maximum Switching Current	100mA Max
	Power Consumption	6 μ A Max.@24V
	Leakage Current	40 μ A Max.@28v
	Maximum Switching Capacitance	3W Max
	Residual Voltage Drop	2.65V Max@50mA
	Suitable Load	DC24V Relay for PLC
	Protection Circuit	Surge Absorption Protection
Environmental conditions	Operating Temperature	-10~70°C
	Shock Resistance	50G
	Vibration Resistance	9G
	Protection Level	IP67(EN6052)
Mechanical data	Connection Method	2.8 ϕ ,2C,Gray Oil-resistant TPU
	Dimensions	15x4x4.7mm
	Material	Plastic
	Weight	about 19.5g
	Model	MR-C80

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

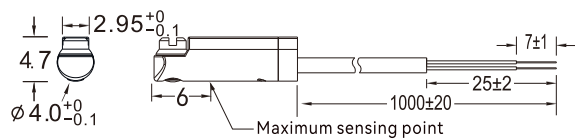
Guidance

Magnetic

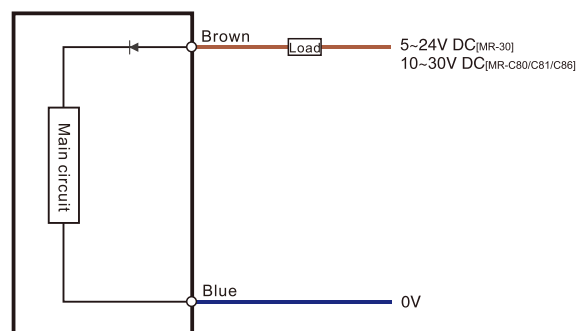
- Magnetic sensors
- High precision cylinder
- Economic cylinder**
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

Dimensions

Unit:mm



Circuit diagram



Economical Cylinder Sensor

Magnetic

Economical Type

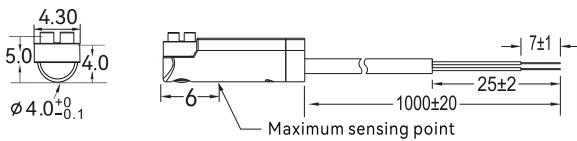


Basic features	Operating Principle	Magnetic
	Shell Style	Square
	Indicator Light	Red LED
Electrical data	Switching Logic	Electronic Type: Normally Open
	Switch Type	Two-wire Contactless Transistor Type
	Sensitivity	25-1000G
	Maximum Switching Frequency	1000Hz
	Operating Voltage	10~30V DC
	Maximum Switching Current	100mA Max
	Power Consumption	6μA Max.@24V
	Leakage Current	40μA Max.@28v
	Maximum Switching Capacitance	3W Max
	Residual Voltage Drop	2.65V Max@50mA
	Suitable Load	DC24V Relay for PLC
Environmental conditions	Protection Circuit	Surge Absorption Protection
	Operating Temperature	-10~70°C
	Shock Resistance	50G
	Vibration Resistance	9G
Mechanical data	Protection Level	IP67(EN6052)
	Connection Method	2.8 φ ,2C,Gray Oil-resistant TPU
	Dimensions	15.1x4.3x5mm
	Material	Plastic
	Weight	about 19.5g
	Model	MR-C81

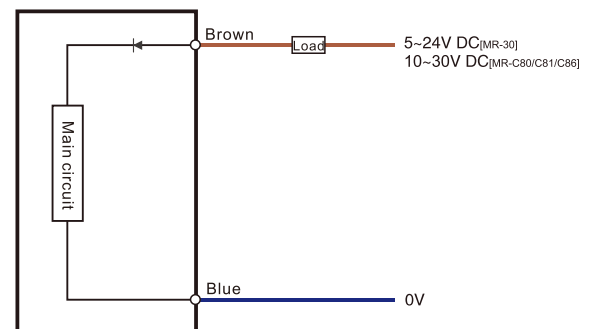
Guidance

Dimensions

Unit:mm



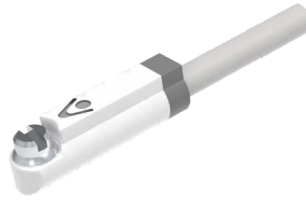
Circuit diagram



Economical Cylinder Sensor

Magnetic

Economical Type



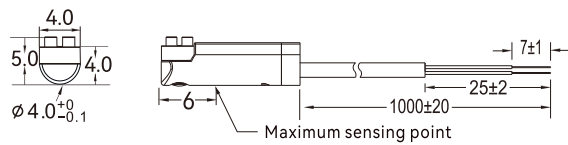
Basic features	Operating Principle	Magnetic
	Shell Style	Square
	Indicator Light	Red LED
Electrical data	Switching Logic	Electronic Type: Normally Open
	Switch Type	Two-wire Contactless Transistor Type
	Sensitivity	25-1000G
	Maximum Switching Frequency	1000Hz
	Operating Voltage	10~30V DC
	Maximum Switching Current	100mA Max
	Power Consumption	6μA Max.@24V
	Leakage Current	40μA Max.@28v
	Maximum Switching Capacitance	3W Max
	Residual Voltage Drop	2.65V Max@50mA
	Suitable Load	DC24V Relay for PLC
	Protection Circuit	Surge Absorption Protection
Environmental conditions	Operating Temperature	-10~70°C
	Shock Resistance	50G
	Vibration Resistance	9G
	Protection Level	IP67(EN6052)
Mechanical data	Connection Method	2.8 φ ,2C,Gray Oil-resistant TPU
	Dimensions	15.1x4x5mm
	Material	Plastic
	Weight	about 19.5g
	Model	MR-C86

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

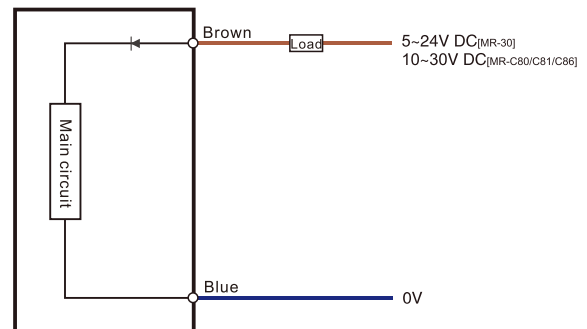
Guidance

Dimensions

Unit:mm



Circuit diagram



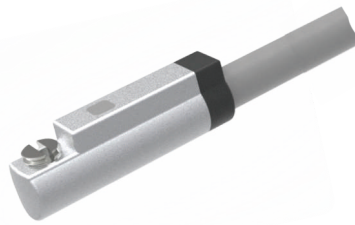
Magnetic

Magnetic sensors
High precision cylinder
Economic cylinder
Environmental cylinder
Magnetic Proximity
Door sensors
Linear sensors
Ordinary magnets
High precision composite magnets
Mounting accessories

Environmental Cylinder Sensor

Magnetic

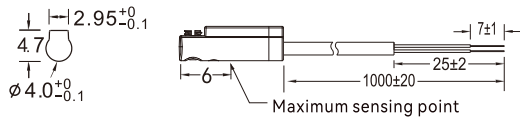
Environmentally Resistant Type



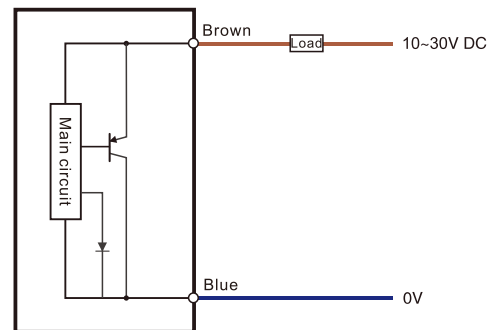
Basic features	Operating Principle	Magnetic
	Shell Style	Square
	Indicator Light	Red LED
Electrical data	Switching Logic	Electronic Type: Normally Open
	Switch Type	Two-wire Contactless Transistor Type
	Sensitivity	25-1000G
	Maximum Switching Frequency	1000Hz
	Operating Voltage	10~30V DC
	Maximum Switching Current	100mA Max
	Power Consumption	6μA Max.@24V
	Leakage Current	40μA Max.@28v
	Maximum Switching Capacitance	3W Max
	Residual Voltage Drop	2.65V Max@50mA
	Suitable Load	DC24V Relay for PLC
Environmental conditions	Protection Circuit	Surge Absorption Protection
	Operating Temperature	-10~70°C
	Shock Resistance	50G
	Vibration Resistance	9G
Mechanical data	Protection Level	IP67(EN6052)
	Connection Method	2.8 φ ,2C,Gray Oil-resistant TPU
	Dimensions	14.3x4x4.7mm
	Material	Plastic
	Weight	about 23.5g
	Model	MR-70

Dimensions

Unit:mm



Circuit diagram



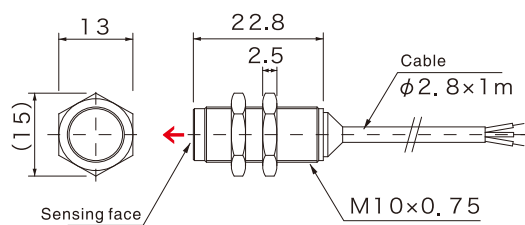


Basic features	Operating Principle	Magnetic	
	Shell Style	Cylindrical	
	Detection Distance	Iron Wire $\phi 1$	1.0
		High-Speed Steel Drill $\phi 2$	2.0
		Square Iron 20Xt1	2.4
Operation Indicator Light	Distance from Main Body: Approximately 100mm		
Electrical data	Output Mode	NPN Normally Open (N.O.) Type, with Rear (B) for OFF when Approached	
	Operating Voltage	5~24V DC	
	Output Current	$\leq 15\text{mA}$	
	Power Consumption	$\leq 15\text{mA}$	
	Voltage Endurance	AC 1000V 1min	
	Insulation Resistance	250V DC $\geq 20\text{M}\Omega$	
Environmental conditions	Operating Temperature	-20°C~+85°C(No Condensation)	
	Operating Humidity	20~95%RH	
Mechanical data	Protection Level	IP67	
	Connection Method	M10 Nut with Installation Torque of 12N·m	
	Dimensions	M10x22.8mm	
	Material	SUS303	
	Weight	-	
Special function	Features	Threaded Shell Type, Metal Shell, Waterproof	
Model	Normally Open without Indicator Light	MR-F11	
	Normally Open with Indicator Light	MR-F11-LED	
	Normally Closed without Indicator Light	MR-F11-B	
	Normally Closed with Indicator Light	MR-F11-B-LED	

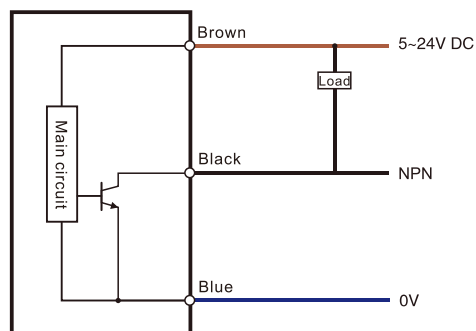
- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Dimensions

Unit:mm



Circuit diagram

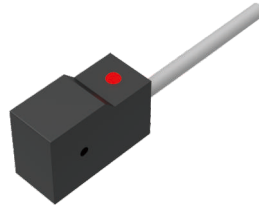


Guidance

Magnetic

- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity**
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

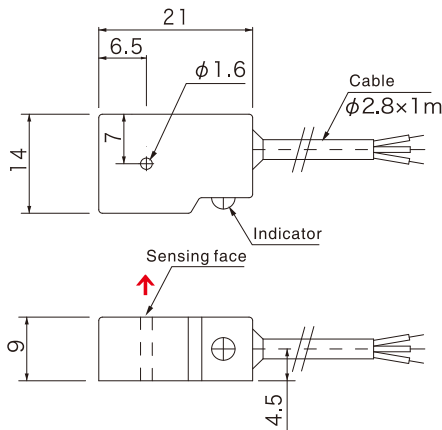
Magnetic Proximity Sensors



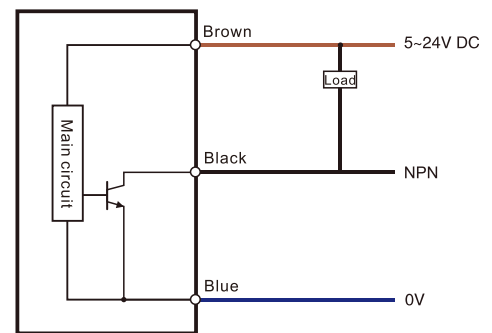
Basic features	Operating Principle	Magnetic	
	Shell Style	Square	
	Detection Distance	Square Iron 30Xt10	6.0
		Square Iron 30Xt2	4.0
Operation Indicator Light	Distance from Main Body: Approximately 100mm		
Electrical data	Output Mode	NPN Normally Open (N.O.) Type, with Rear (B) for OFF when Approached	
	Operating Voltage	5~24V DC	
	Output Current	≤15mA	
	Power Consumption	≤15mA	
	Voltage Endurance	AC 1000V 1min	
	Insulation Resistance	250V DC≥20MΩ	
	Environmental conditions	Operating Temperature	-20°C~+85°C(No Condensation)
Operating Humidity		20~80%RH	
Mechanical data	Protection Level	IP65	
	Connection Method	M3 Nut with Installation Torque of 0.3N·m	
	Dimensions	9x14x21mm	
	Material	GF Reinforced PBT	
	Weight	22.8x13x13	
Model	Normally Open	MR-F2	
	Normally Closed	MR-F2-B	

Dimensions

Unit:mm



Circuit diagram



Upward Detection

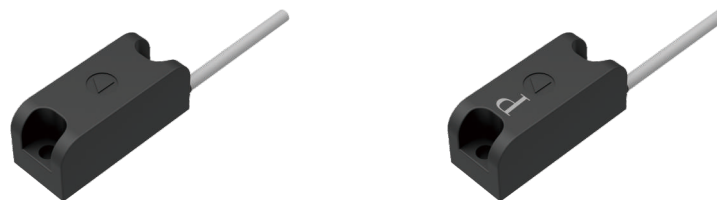


(Matching magnet)

MR-DM2

Basic features	Operating Principle	Magnetic	
	Shell Style	Square	
	Detection Range	15mm	
Electrical data	Operating Voltage	5~24V DC	
	Output Mode	NPN Normally Open (N.O.) Type, with Rear (B) for OFF when Approached	
	Output Current	≤15mA	≤80mA
	Power Consumption	≤15mA	
	Voltage Endurance	AC1000V 1min	
	Insulation Resistance	250VDC≥20MG	
	Response Speed	5us	
Environmental conditions	Operating Temperature	-20°C~+85°C(No Condensation)	
	Operating Humidity	20~95%RH	
	Protection Level	IP67	
Mechanical data	Connection Method	M3 Nut with Installation Torque of 0.8N·m	
	Dimensions	14x14x34mm	
	Material	GF Reinforced PBT:Black	
	Weight	about 17.6g	
Model	Normally Open	MR-D2	MR-D2P
	Normally Closed		MR-D2PB

Sideway Detection



(Matching magnet)

MR-DM2X

Basic features	Operating Principle	Magnetic	
	Shell Style	Square	
	Detection Range	12mm	
Electrical data	Operating Voltage	12~24V DC	
	Output Mode	NPN Normally Open (N.O.) Type, with Rear (B) for OFF when Approached	
	Output Current	≤80mA	
	Power Consumption	≤15mA	≤80mA
	Voltage Endurance	AC1000V 1min	
	Insulation Resistance	250V DC≥20MΩ	
	Response Speed	5us	
Environmental conditions	Operating Temperature	-20°C~+85°C(No Condensation)	
	Operating Humidity	20~95%RH	
	Protection Level	IP67	
Mechanical data	Connection Method	M3 Nut with Installation Torque of 0.8N·m	
	Dimensions	14x14x34mm	
	Material	GF Reinforced PBT:Black	
	Weight	about 17.4g	about 17g
Model	Normally Open	MR-D2X	MR-D2XP
	Normally Closed		MR-D2XPB

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

Magnetic

- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

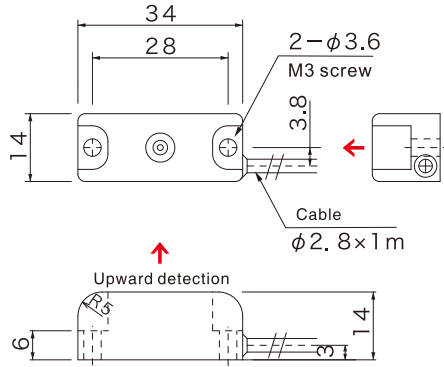
Door Sensors

Dimensions

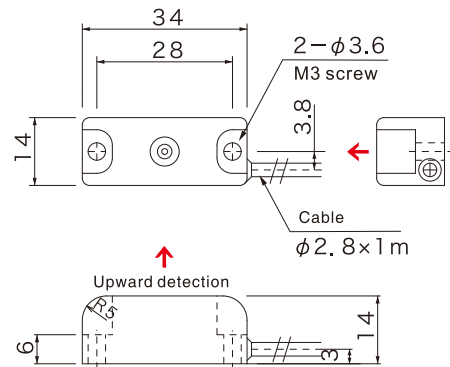
Unit:mm

Magnetic

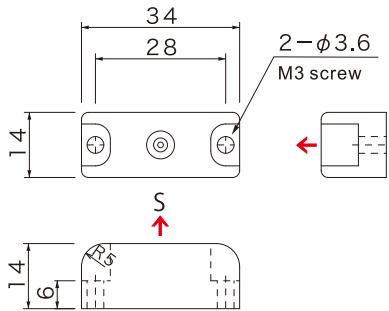
MR-D2



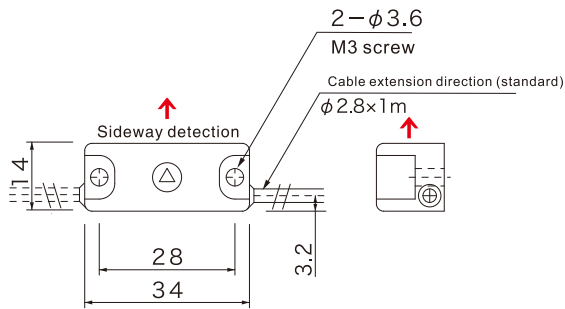
MR-D2P/D2PB



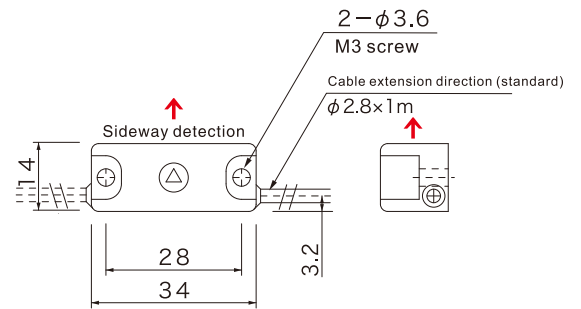
MR-DM2



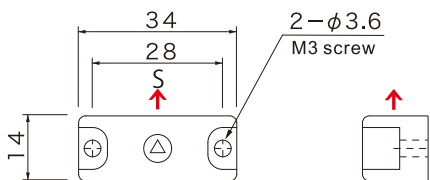
MR-D2X



MR-D2XP/D2XPB



MR-DM2X



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Magnetic

Magnetic sensors

High precision cylinder

Economic cylinder

Environmental cylinder

Magnetic Proximity

Door sensors

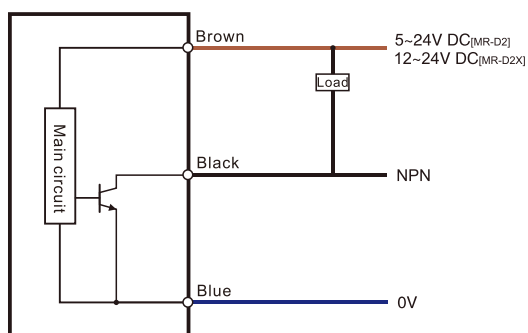
Linear sensors

Ordinary magnets

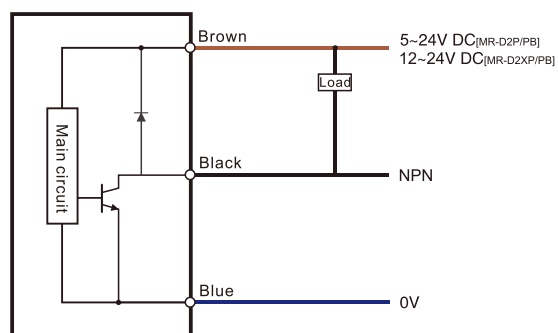
High precision composite magnets

Mounting accessories

MR-D2/D2X



MR-D2P(PB)/D2XP(PB)



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

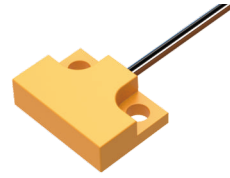
Guidance

Magnetic

- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors**
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

Linear Sensors

Magnetic



Basic features	Operating Principle	Linear Sensor
	Shell Style	Square
Electrical data	Operating Voltage	5V DC
	Output Voltage	0.3→4.7V(-40→+40mT):(Center Value)
	Center Voltage	2.5V±0.15V
	Output Current	≤±12mA
	Power Consumption	12mA
	Response Speed	5us(100kHz)
Environmental conditions	Operating Temperature	-20°C~+85°C
	Operating Humidity	20~95%RH
	Protection Level	IP65
Mechanical data	Connection Method	M2 Nut with Installation Torque of 0.15N·m
	Dimensions	MR-L4:8.6x12x3.5mm MR-L4-H:7.8x12x4.2mm
	Material	GF Reinforced PBT:Orange
	Weight	2g
Special function	Magnetic Sensitivity	65mV/mT(Center Value)
	Magnetic Sensitivity Temperature Coefficient	0±0.04%/°C
	Center Voltage Temperature Coefficient	0±0.5mV/°C
Model	Front Detection	MR-L4
	Side Detection	MR-L4-H



Basic features	Operating Principle	Linear Sensor
	Shell Style	Cylindrical
Electrical data	Operating Voltage	5V DC
	Output Voltage	0.3→4.7V(-40→+40mT):(Center Value)
	Center Voltage	2.5V±0.15V
	Output Current	≤ ± 12mA
	Power Consumption	12mA
	Response Speed	5us(100kHz)
Environmental conditions	Operating Temperature	-20°C~+85°C
	Operating Humidity	20~95%RH
	Protection Level	IP65
Mechanical data	Connection Method	M3 Nut with Installation Torque of 0.15N·m
	Dimensions	4.9x4.9x16mm
	Material	SUS303
	Weight	2g
Special function	Magnetic Sensitivity	65mV/mT(Center Value)
	Magnetic Sensitivity Temperature Coefficient	0 ± 0.04 % °C
	Center Voltage Temperature Coefficient	0 ± 0.5mV/°C
Model		MR-L10X

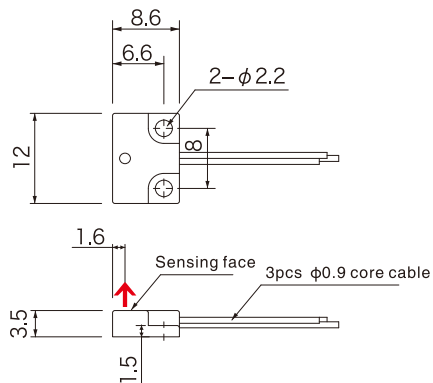
- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic**
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

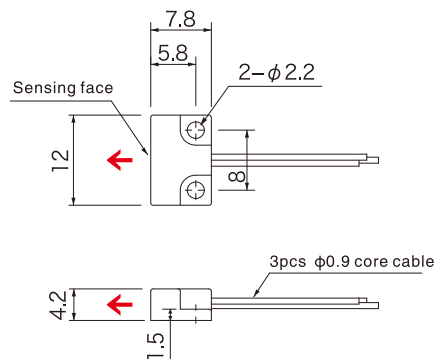
Magnetic

- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors**
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

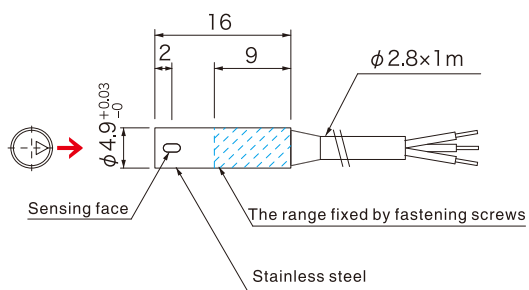
MR-L4



MR-L4-H

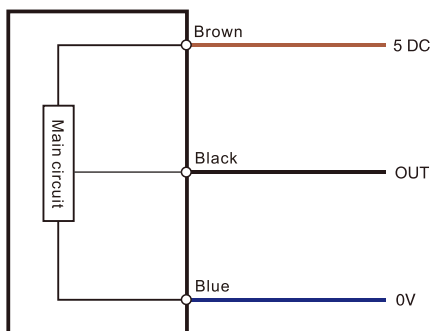


MR-L10X



Circuit diagram

MR-L4/L10X



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

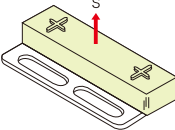
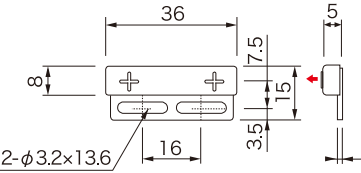
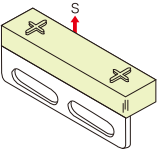
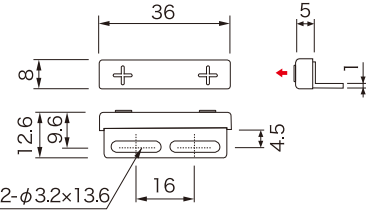
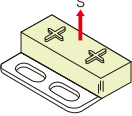
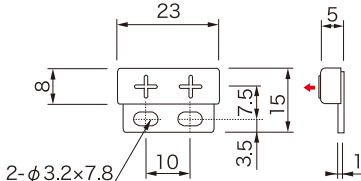
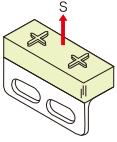
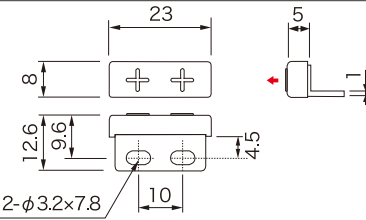
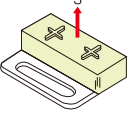
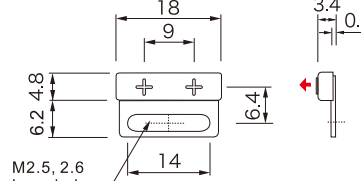
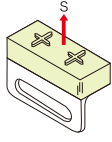
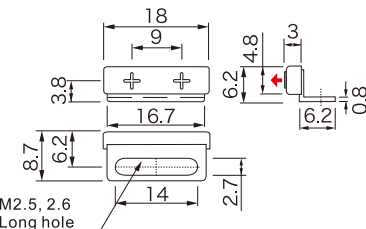
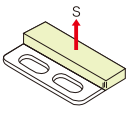
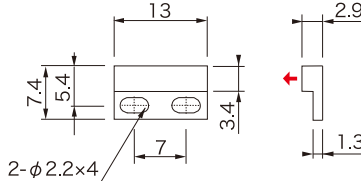
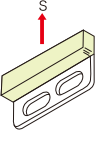
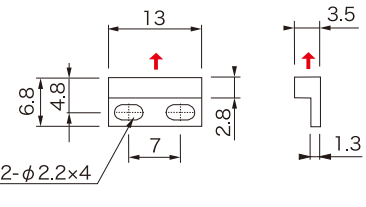

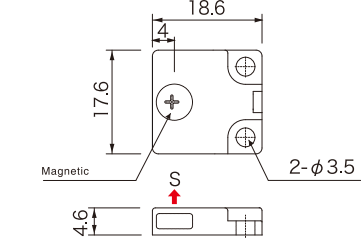

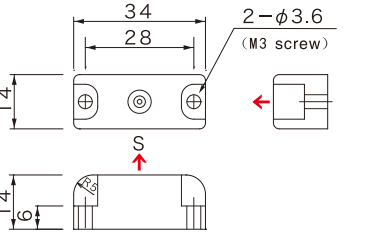

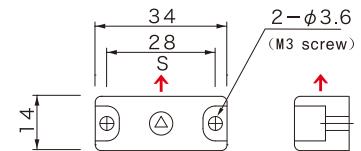

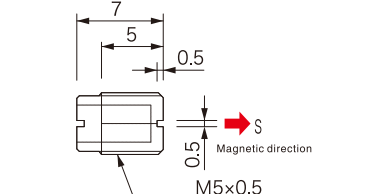
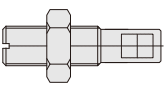
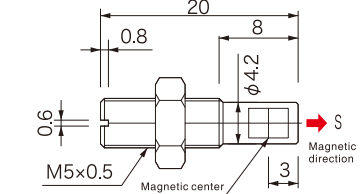

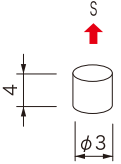

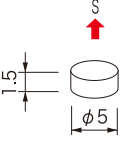
Guidance

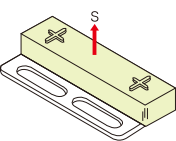
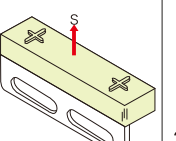
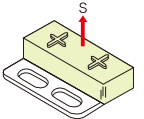
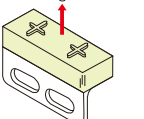
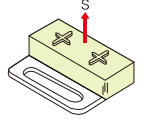
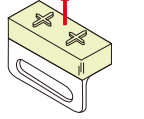
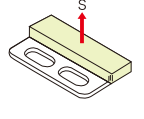
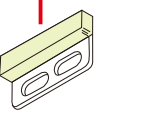
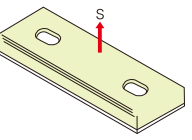
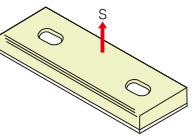
Magnetic

Magnetic sensors
High precision cylinder
Economic cylinder
Environmental cylinder
Magnetic Proximity
Door sensors
Linear sensors
Ordinary magnets
High precision composite magnets
Mounting accessories

Ordinary Magnets

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories
- Guidance
- Magnetic
 - Magnetic sensors
 - High precision cylinder
 - Economic cylinder
 - Environmental cylinder
 - Magnetic Proximity
 - Door sensors
 - Linear sensors
 - Ordinary magnets
 - High precision composite magnets
 - Mounting accessories

Model No.	Dimensions (Unit:mm)	Model No.	Dimensions (Unit:mm)
MR-M1K 	 <p>36, 8, 7.5, 15, 5, 16, 3.5, 2-φ3.2×13.6</p>	MR-M1KH 	 <p>36, 8, 5, 1.1, 12.6, 9.6, 16, 4.5, 2-φ3.2×13.6</p>
MR-M2K 	 <p>23, 8, 7.5, 15, 5, 10, 3.5, 2-φ3.2×7.8</p>	MR-M2KH 	 <p>23, 8, 5, 1.1, 12.6, 9.6, 10, 4.5, 2-φ3.2×7.8</p>
MR-M3K 	 <p>18, 9, 3.4, 0.8, 6.2, 4.8, 6.4, 14, M2.5, 2.6 Long hole</p>	MR-M3KH 	 <p>18, 9, 3, 0.8, 3.8, 6.2, 4.8, 13, 6.2, 8.7, 6.2, 14, 2.7, M2.5, 2.6 Long hole</p>
MR-M4K 	 <p>13, 7.4, 5.4, 3.4, 2.9, 7, 1.3, 2-φ2.2×4</p>	MR-M4KH 	 <p>13, 3.5, 6.8, 4.8, 2.8, 7, 1.3, 2-φ2.2×4</p>
MR-M9K 	 <p>18.6, 17.6, 4, 2-φ3.5, 4.6, Magnetic</p>	MR-M2S 	 <p>34, 28, 2-φ3.6 (M3 screw), 1.4, 1.4, 6, S, Magnetic direction, M5×0.5</p>
MR-M2X 	 <p>34, 28, 2-φ3.6 (M3 screw), 1.4, S, Magnetic direction</p>	MR-M10S 	 <p>7, 5, 0.5, 0.5, S, Magnetic direction, M5×0.5</p>
MR-M10L 	 <p>20, 0.8, ∞, 0.6, φ4.2, S, Magnetic direction, M5×0.5, Magnetic center</p>	MR-M304 	 <p>S, 4, φ3</p>
MR-M5015 	 <p>S, 1.5, φ5</p>		

Model No.	Dimensions (Unit:mm)	Model No.	Dimensions (Unit:mm)
MR-M1	 <p>36 8 2-φ3.2×13.6 16 3.5 7.5 15 5 1</p>	MR-M1H	 <p>36 8 2-φ3.2×13.6 16 12.6 9.6 4.5 5 1</p>
MR-M2	 <p>23 8 2-φ3.2×7.8 10 3.5 7.5 15 5 1</p>	MR-M2H	 <p>23 8 2-φ3.2×7.8 10 12.6 9.6 4.5 5 1</p>
MR-M3	 <p>18 9 6.2 4.8 2-M2.5, 2.6 Long hole 14 6.4 3.4 0.8 1</p>	MR-M3H	 <p>18 9 3.8 16.7 2-M2.5, 2.6 Long hole 14 8.7 6.2 2.7 6.2 4.8 1.3 0.8</p>
MR-M4	 <p>13 7.4 5.4 2-φ2.2×4 7 3.4 2.9 1.3</p>	MR-M4H	 <p>13 6.8 4.8 2-φ2.2×4 7 2.8 3.5 1.3</p>
MR-M11	 <p>90 56 30 Mounting hole for M4 3mm adjustment on the left and right</p>	MR-M11-K	 <p>90 56 30 Mounting hole for M4 3mm adjustment on the left and right</p>

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

Magnetic

- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

Mounting Accessories

Model No.	Dimensions (Unit:mm)	Model No.	Dimensions (Unit:mm)
HP2-1 		HP3-1 	
HP3-2 		HP3-3 	
HP3-4 			

Guidance

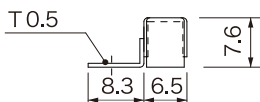
Magnetic

- Magnetic sensors
- High precision cylinder
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

Appearance and mounting

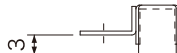
Dimensions(Unit:mm)

HP12-0



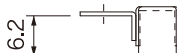
*Mounting deviation: None

HP12-3



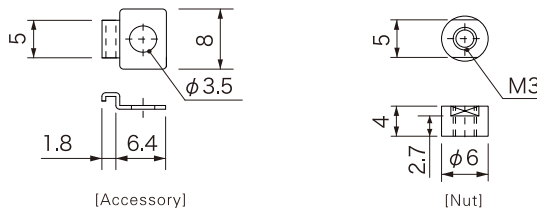
*Mounting deviation: 3mm

HP12-6.2

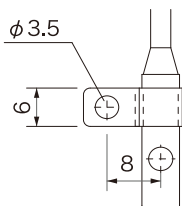


*Mounting deviation: 6.2mm

HP12-t



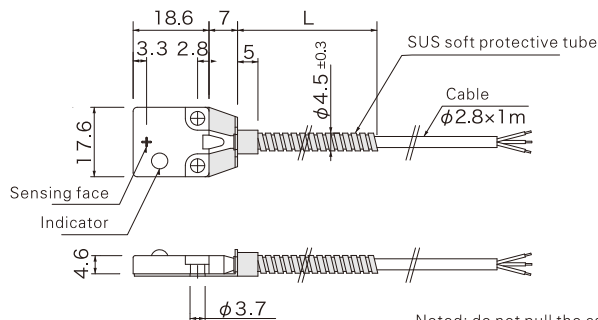
With special screw
*Used for Pneumatic fingers



Mounting accessories:
-BT: cable protective tube

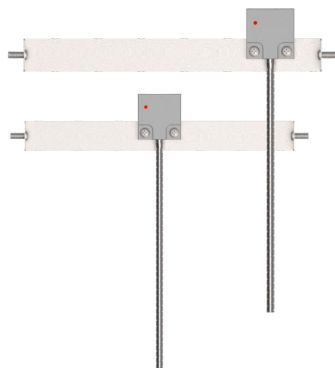


- Extremely strong, even being stomped on the ground, SUS304 soft protective tube
- Can be used in rough environments, such as dust, oil, water, and light, very robust

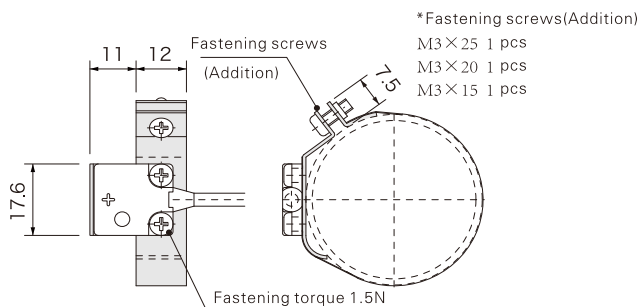


Noted: do not pull the cable with force more than 10N.

Mounting accessories:
-BD: belt shaped mounting accessories



- Fastening with stainless steel belt shaped accessories.
- Even with huge vibration or shock, it will stay fixed.
- Suitable for normal tube shaped cylinders with inner diameter $\phi 32 \sim 100$.



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Guidance

Magnetic

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