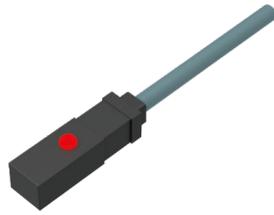


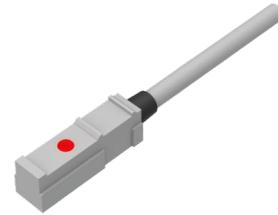
# High Precision Cylinder Sensors

Magnetic

3-wire



2-wire



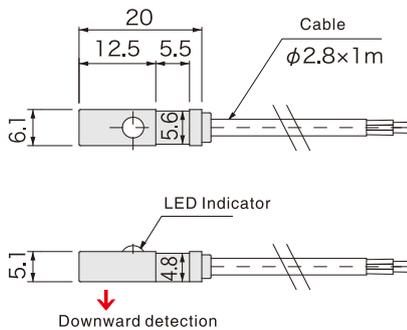
Basic features	Operating Principle	Magnetic	
	Shell Style	Square	
	Applicable Groove Type	Shape T	
	Detection of Magnetic Poles	Optional N and S Pole Models	
	Magnetic Sensitivity	2.5~3.5mT	
	Indicator Light	Red	
Electrical data	Output Mode	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)	...
	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		<b>MR-C6-S</b>	<b>MR-C12-S</b>
		<b>MR-C6-N</b>	<b>MR-C12-N</b>

- 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

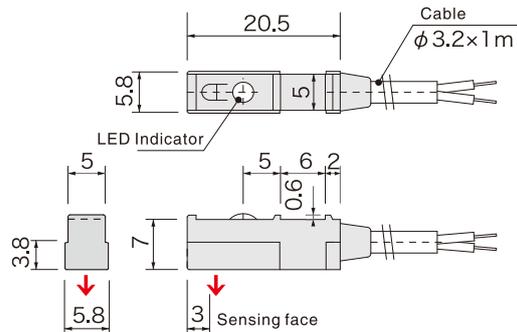
Unit:mm

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

### Guidance

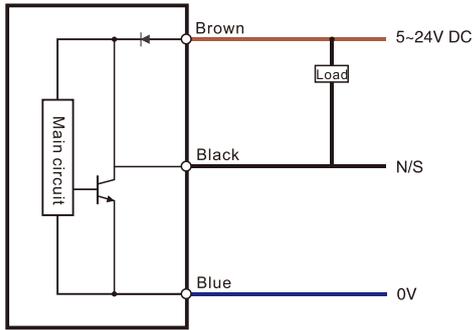
- Magnetic**
- Magnetic sensors
- High precision cylinder**
- Economic cylinder
- Environmental cylinder
- Magnetic Proximity
- Door sensors
- Linear sensors
- Ordinary magnets
- High precision composite magnets
- Mounting accessories

# High Precision Cylinder Sensors

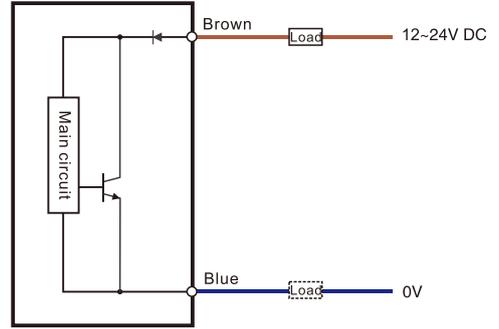
## Circuit diagram

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	<b>MR-C7-S</b>	<b>MR-C8-C-S</b>	<b>MR-C8-U-S</b>	<b>MR-C13-C-S</b>	<b>MR-C13-U-S</b>
	Detects North Pole	<b>MR-C7-N</b>	<b>MR-C8-C-N</b>	<b>MR-C8-U-N</b>	<b>MR-C13-C-N</b>	<b>MR-C13-U-N</b>

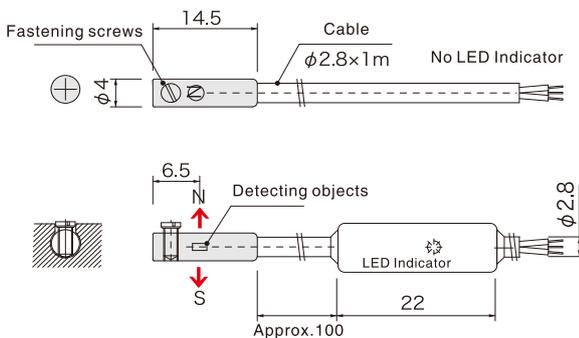
Fiber Optic  
Slot Sensors  
Photoelectric  
Laser  
Proximity  
Displacement  
Magnetic  
Contact  
Area  
Ultrasonic  
AI Image  
Code Readers  
Vibration  
Temperature  
RFID  
Safety door lock  
Pressure Switch  
Communication  
Accessories

Guidance

## Dimensions

Unit:mm

MR-C7



Magnetic

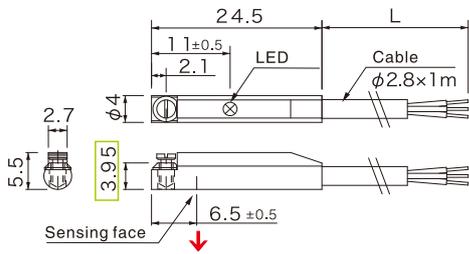
Magnetic sensors  
High precision cylinder  
Economic cylinder  
Environmental cylinder  
Magnetic Proximity  
Door sensors  
Linear sensors  
Ordinary magnets  
High precision composite magnets  
Mounting accessories

# High Precision Cylinder Sensors

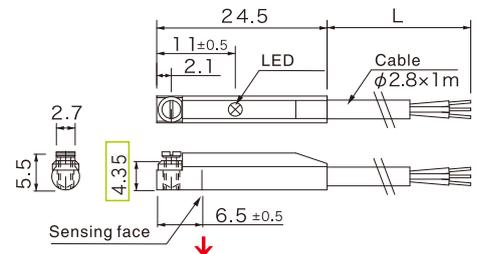
## Dimensions

Unit:mm

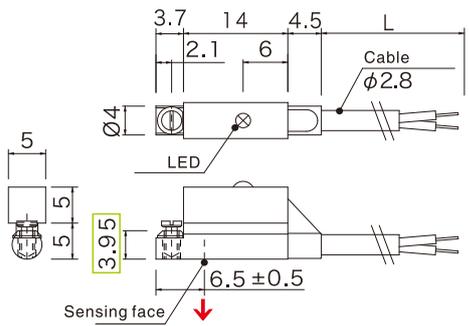
MR-C8(C shaped slot)



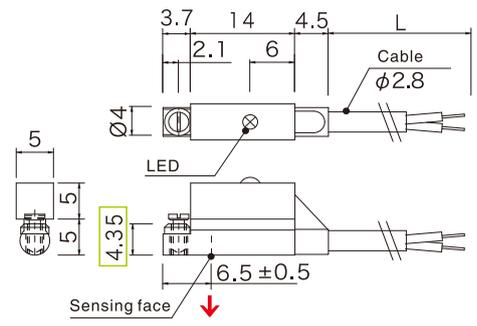
MR-C8(U shaped slot)



MR-C13(C shaped slot)

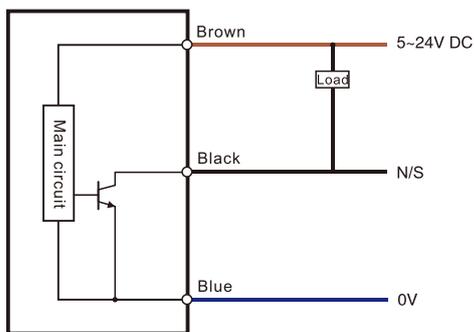


MR-C13(U shaped slot)

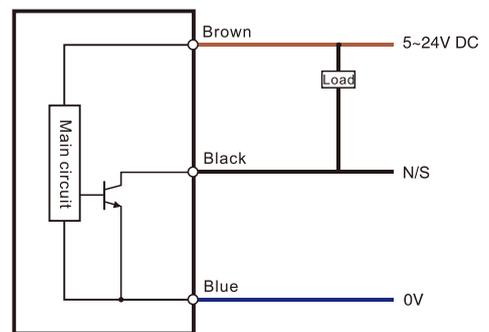


## Circuit diagram

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



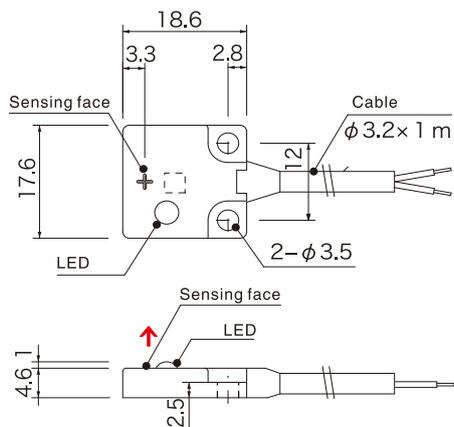
Basic features	Operating Principle	Magnetic		
	Shell Style	Square		
	Applicable Groove Type	External		
	Detection of Magnetic Poles	Optional N and S Pole Models		
	Magnetic Sensitivity	2.5~3.5mT		
	Indicator Light	Red	None	
Electrical data	Output Mode	...	NPN Normally Open, N.O.(N.O.)(Turns ON when Approached)	
	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	<b>MR-C92-S</b>	<b>MR-C9-S</b>	<b>MR-C9-E-S</b>
	Detects North Pole	<b>MR-C92-N</b>	<b>MR-C9-N</b>	<b>MR-C9-E-N</b>

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

## Dimensions

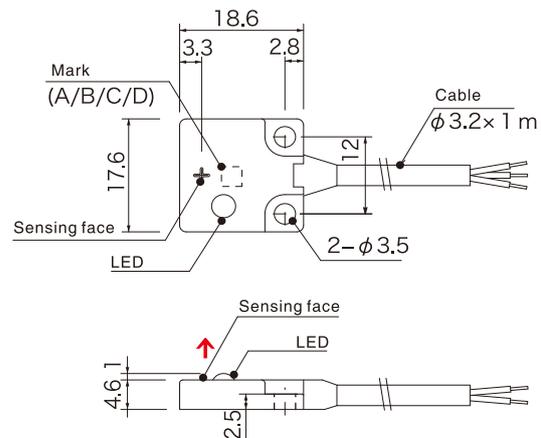
Unit:mm

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

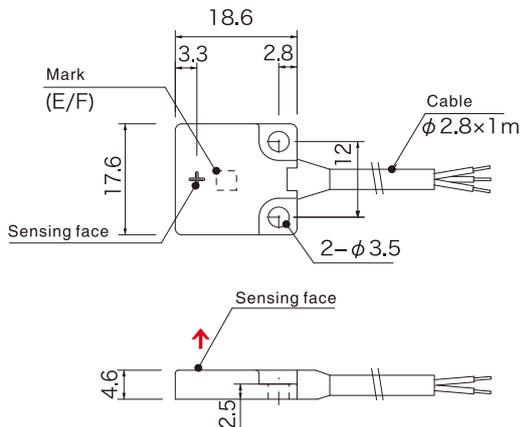
Magnetic  
Magnetic sensors  
High precision cylinder  
Economic cylinder  
Environmental cylinder  
Magnetic Proximity  
Door sensors  
Linear sensors  
Ordinary magnets  
High precision composite magnets  
Mounting accessories

# High Precision Cylinder Sensors

## Dimensions

Unit:mm

### MR-C9-E(No LED)

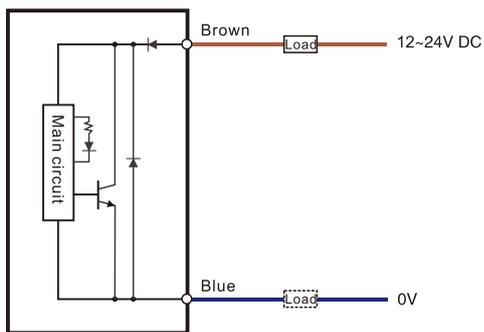


Mounting accessories:

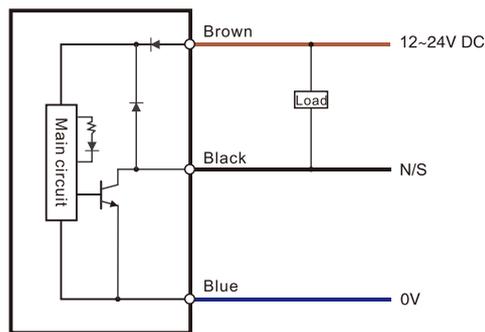
-BT:cable protective tube/-BD:belt shaped mounting accessories

## Circuit diagram

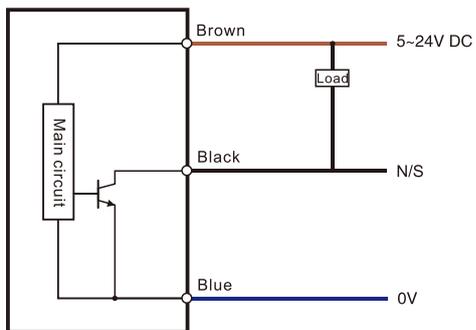
### MR-C92



### MR-C9



### MR-C9-E



Magnetic

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

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Environmental cylinder

Magnetic Proximity

Door sensors

Linear sensors

Ordinary magnets

High precision composite magnets

Mounting accessories