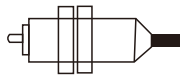
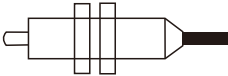
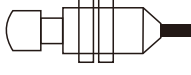
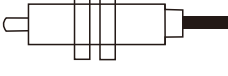
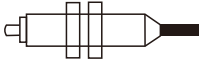

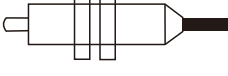









High Accuracy Contact Sensors



- ⦿ Magnetic detection principle, reliable performance, high durability
- ⦿ Repeat accuracy up to 0.001mm
- ⦿ With high precision spring; Min. detected operating force 0.3N

Appearance	Position Repeat Accuracy	Size	Range	Operating Force	Main Model No.	Pages
	± 0.001mm	M8X24	1.5mm	0.3N	MR-T8	H-03
	± 0.001mm	M8X35	3mm	0.6N	MR-T8A	
	± 0.001mm	M8X38.2	3mm	0.6N	MR-T8B	
	± 0.001mm	M8X39	3mm	0.6N	MR-T8P	
	± 0.001mm	M6X21	1.2mm	0.3N	MR-T6	H-04
	± 0.001mm	M10X27	3mm	1N	MR-T10	
	± 0.01mm	M10X21.2	1mm	H:5N J:0.5N	MR-T10B	
	± 0.001mm	M14X37	6mm	0.5~1.5N	MR-T5Z	H-05
	± 0.01mm	φ 14X80.5	5mm	H:2N J:0.8N	MR-T1X	
	± 0.01mm	M6X25	1.2mm	0.3N	MR-T6N	
	± 0.01mm	26X55	360° direction: 3±0.5mm	H:3N J:0.5N	MR-T4X	
	± 0.01mm	φ 12X12.9	1mm	H:7N J:0.5N	MR-T12B	H-06
	± 0.002mm	10.4X7.4X14.9	0.6N	MR-T1QA	
	± 0.01mm	21X22	8mm	0.8N	MR-T93Q	

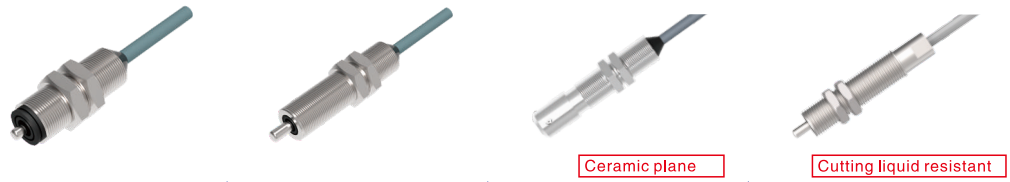
- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact**
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety doorlock
- Pressure Switch
- Communication
- Accessories

Guidance

- Contact**
- Contact

Contact

Contact



Basic Features	Working principle	Contact sensor						
	Housing	Cylindrical						
	Detection distance	1.5mm		3mm				
	Pre-travel(PT)	0.4~0.7mm						
	Operate position(OP)	-						
	Indicator	Approx. 100mm from object						
Electrical data	Position repeatability	+0.001mm						
	Operating frequency	120 cycles per minute						
	Hysteresis	Less than 0.1mm						
	Output type	NPN NO/NPN NC						
	Output current	Without indicator: ≤15mA, with indicator: ≤12mA						
	Operating voltage	5~24VDC						
Environmental conditions	Current consumption	Without indicator: ≤15mA, with indicator: ≤12mA						
	Operating temperature	-20°C~+85°C, No freezing						
	Operating humidity	20%~95%RH, No condensation						
	Insulation strength	250VDC≥20MΩ						
	Dielectric strength	AC1000V for 1 minute						
	Enclosure rating	IP69						
Mechanical data	Operating force	0.3N						
	Travel	1.5mm		3mm				
	Connection	1m/3-core cable						
	Max. tightening torque	5N·m for M8 nut installation						
	Dimension	11.5x10x24mm	11.5x10x30mm	11.5x10x38.7mm	11.5x10x40mm			
	Material	SUS303						
	Weight	about 15.8g						
	Accessory	Nut						
Model	<table border="0" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;"> MR-T8- Action: Null : OFF→ON B : ON→OFF </td> <td style="width: 25%;"> MR-T8A- Action: Null : OFF→ON B : ON→OFF Indicator on cables Null : No indicator LED : With indicators </td> <td style="width: 25%;"> MR-T8B- Action: Null : OFF→ON B : ON→OFF Protective hood Null : Stainless steel TX : Ceramic </td> <td style="width: 25%;"> MR-T8P- Action: Null : OFF→ON B : ON→OFF </td> </tr> </table>				MR-T8- Action: Null : OFF→ON B : ON→OFF	MR-T8A- Action: Null : OFF→ON B : ON→OFF Indicator on cables Null : No indicator LED : With indicators	MR-T8B- Action: Null : OFF→ON B : ON→OFF Protective hood Null : Stainless steel TX : Ceramic	MR-T8P- Action: Null : OFF→ON B : ON→OFF
MR-T8- Action: Null : OFF→ON B : ON→OFF	MR-T8A- Action: Null : OFF→ON B : ON→OFF Indicator on cables Null : No indicator LED : With indicators	MR-T8B- Action: Null : OFF→ON B : ON→OFF Protective hood Null : Stainless steel TX : Ceramic	MR-T8P- Action: Null : OFF→ON B : ON→OFF					

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- Pressure Switch
- Communication
- Accessories
- Guidance

Contact
Contact



Basic Features	Working principle	Contact sensor		
	Housing	Cylindrical		
	Detection distance	1.2mm	3mm	1mm
	Pre-travel(PT)	0.4~0.7mm	Freely specified from 0.4±0.15mm to 2.0±0.15mm	
	Operate position(OP)	-		
	Indicator	Approx. 100mm from object		
Electrical data	Position repeatability	±0.001mm		±0.01mm
	Operating frequency	120 cycles per minute	≤60 cycles per minute	120 cycles per minute
	Hysteresis	Less than 0.1mm		
	Output type	NPN NO/NPN NC		
	Output current	Without indicator: ≤15mA, with indicator: ≤12mA		
	Operating voltage	5~24VDC		
	Current consumption	Without indicator: ≤15mA, with indicator: ≤12mA		
Environmental conditions	Operating temperature	-20°C~+85°C, No freezing		
	Operating humidity	20%~95%RH, No condensation		
	Insulation strength	250VDC≥20MΩ		
	Dielectric strength	AC1000V for 1 minute		
	Enclosure rating	IP67		
Mechanical data	Operating force	0.3N	1N	H:5N, J:0.5N
	Travel	1.2mm	3mm	1mm
	Connection	1m/3-core cable		
	Max. tightening torque	2N·m for M6 nut installation	12N·m for M10 nut installation	
	Dimension	7x8x21mm	15x13x27mm	
	Material	SUS303		
	Weight	about 13.1g		
	Accessory	Nut		
Model	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>MR-T6 - - - </p> <p>Action Null : OFF→ON B : ON→OFF</p> <p>Indicator on cables Null : No indicator LED : With indicators</p> </div> <div style="text-align: center;"> <p>MR-T10 - - -</p> <p>Built-in sensors S : Single output D : Dual output</p> <p>Action Null : OFF→ON B : ON→OFF</p> </div> <div style="text-align: center;"> <p>MR-T10B - - - - -</p> <p>Action Null : OFF→ON B : ON→OFF</p> <p>Operating force H : 5N J : 0.5N</p> <p>Indicator on cables Null : No indicator LED : With indicators</p> </div> </div>			

- Fiber Optic
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- Laser
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- Safety doorlock
- Pressure Switch
- Communication
- Accessories

Guidance

- Contact**
- Contact

Contact



Up to 4 action points available



360° degree detection

Basic Features	Working principle	Contact sensor			
	Housing	Cylindrical			Square
	Detection distance	6mm	5mm	1.2mm	3±0.5mm at 360°
	Pre-travel(PT)	0.1~0.4mm	-	0.4~0.7mm	-
	Operate position(OP)	-	2±0.5mm	-	1.5±0.5mm
	Indicator	Approx. 100mm from object			
Electrical data	Position repeatability	±0.001mm	±0.01mm		
	Operating frequency	120 cycles per minute			
	Hysteresis	Less than 0.08mm		Less than 0.1mm	
	Output type	NPN(NO)		NPN NO/NPN NC	NPN(NO)
	Output current	Without indicator: ≤15mA, with indicator: ≤12mA			
	Operating voltage	5~24VDC			
	Current consumption	Without indicator: ≤15mA, with indicator: ≤12mA			
Environmental conditions	Operating temperature	-20°C~+85°C, No freezing			
	Operating humidity	20%~95%RH, No condensation			
	Insulation strength	250VDC≥20MΩ			
	Dielectric strength	AC1000V for 1 minute			
	Enclosure rating	IP65			
Mechanical data	Operating force	0.5~1.5N	H: 2N; J: 0.8N	0.3N	H: 1.5N; J: 0.5N
	Travel	6mm	5mm	1.2mm	3±0.5mm at 360°
	Connection	1m/3-core cable			
	Max. tightening torque	18N·m for M14 nut installation	-	2N·m for M6 nut installation	-
	Dimension	17x19.6x59mm	80.6x14x14mm	7x8x25mm	26x57x117.5mm
	Material	Rubber sleeve: Butadiene rubber Housing, Nut: SUS303	SUS303		Housing: Zinc alloy; Ball handle: Black phenolic
	Weight	about 34.1g	about 13.1g		
	Accessory	Nut			
Model	MR-T5Z- <small>The shape of contact position: S: SUS ball C: Super-hard ball Units of sensors: 1~4</small>	MR-T1X- <small>Operating force: H: 2N J: 0.8N Indicator on cables: Null: No indicator LED: With indicators</small>	MR-T6N- <small>Action: Null: OFF—ON B: ON—OFF NT(mm): 40,60,80,100 Indicator on cables: Null: No indicator LED: With indicators</small>	MR-T4X- <small>Operating force: H: 2N J: 0.8N Indicator on cables: Null: No indicator LED: With indicators</small>	

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

Contact

Contact



Light operating force

Basic Features	Working principle	Contact sensor		
	Housing	Cylindrical	Square	
	Detection distance	1mm	0.7mm	0.8mm
	Pre-travel(PT)	0.3~0.6mm	0.1~0.4mm	0.3-0.8mm
	Operate position(OP)	-		
	Indicator	Approx. 100mm from object	MR-T93Q: Red ; MR-T93Q-E: None
Electrical data	Position repeatability	±0.001mm		±0.01mm
	Operating frequency	120 cycles per minute		
	Hysteresis	Less than 0.08mm	Less than 0.1mm	
	Output type	NPN NO/NPN NC		
	Output current	Without indicator: ≤15mA, with indicator: ≤12mA		MR-T93Q: ≤80mA; MR-T93Q-E: ≤15mA
	Operating voltage	5~24VDC		MR-T93Q: 12~24VDC; MR-T93Q-E: 5~24V DC
Environmental conditions	Current consumption	Without indicator: ≤15mA, with indicator: ≤12mA		MR-T93Q: ≤80mA; MR-T93Q-E: ≤15mA
	Operating temperature	-20°C~+85°C, No freezing		
	Operating humidity	20%~95%RH, No condensation		
	Insulation strength	250VDC≥20MΩ		
	Dielectric strength	AC1000V for 1 minute		
	Enclosure rating	IP65		
Mechanical data	Operating force	H: 7N J: 0.5N	0.6N	0.8N
	Travel	1mm	0.7mm	8mm
	Connection	1m/3-core cable		
	Max. tightening torque	-		0.3N·m for M3 nut installation
	Dimension	12.9x12x38mm	14.9x10.4x7.4mm	31x22x11mm
	Material	SUS303	Housing: Heat-resistant ABS; Rubber seal: Butadiene rubber	Shaft: SUS303; Housing: Glass fiber reinforced PBT
	Weight	about 17.8g		
	Accessory	Nut		
Model	MR-T12B- - -		MR-T1QA-B-J MR-T1QA-H	MR-T93Q- -
	Action Null: OFF→ON B: ON→OFF Operating force H: 7N J: 0.5N Indicator on cables Null: No indicator LED: With indicators		Note: MR-T1QA-B-J: Indicates ON→OFF action; Low operating force. MR-T1QA-H: Indicates OFF→ON action; Standard operating force.	Output current Null: 80mA E: 15mA Action Null: OFF→ON B: ON→OFF

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

Guidance

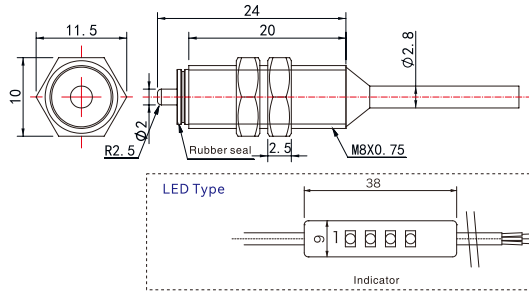
Contact
Contact

Contact

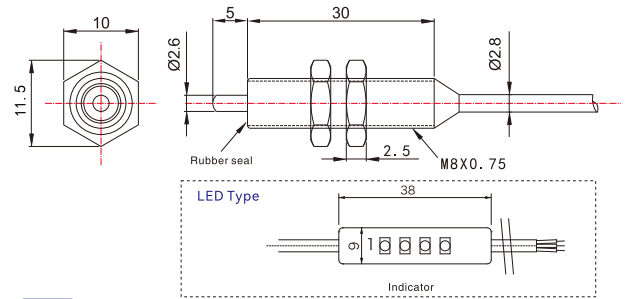
Dimensions

Unit:mm

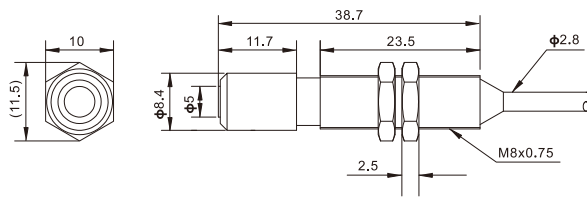
MR-T8



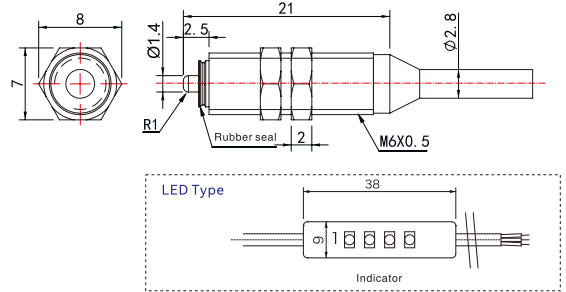
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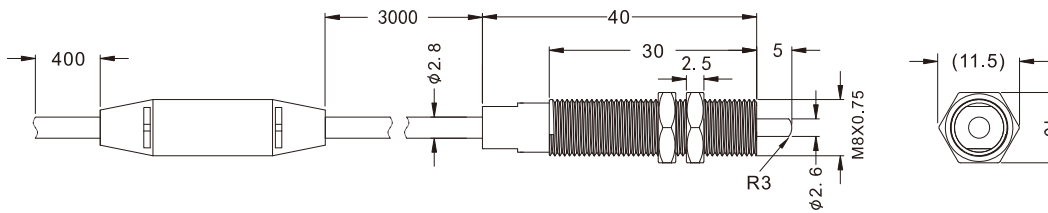
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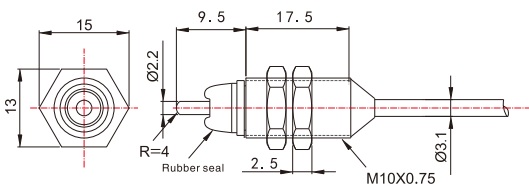
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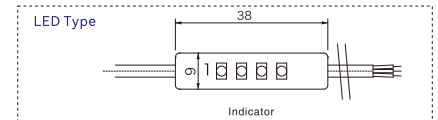
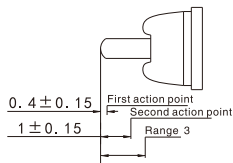
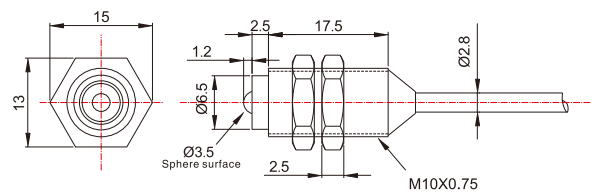
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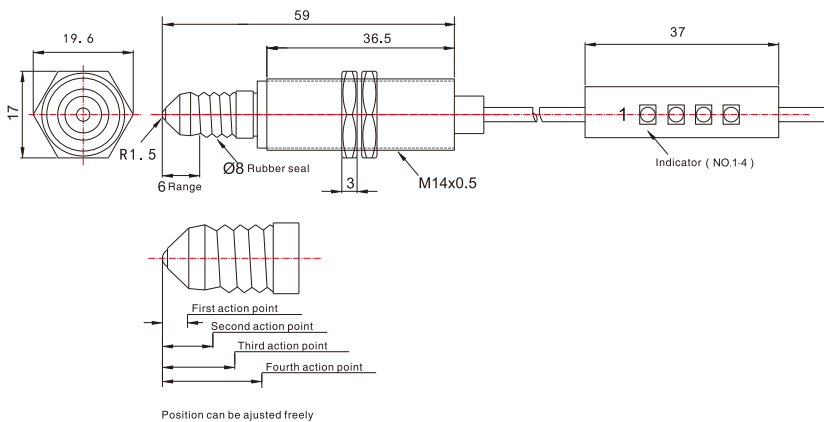
MR-T10



MR-T10B



MR-T5Z

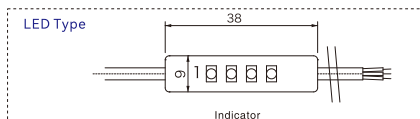
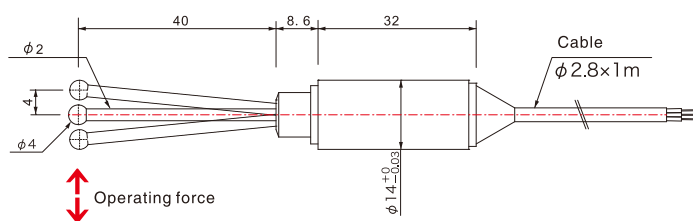


Position can be adjusted freely

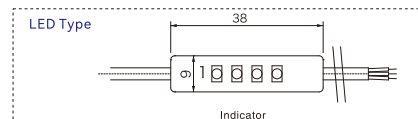
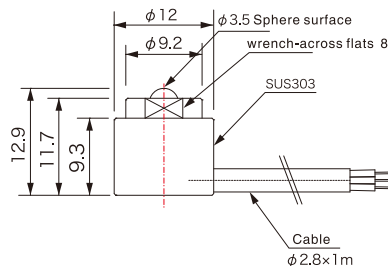
Unit:mm

Dimensions

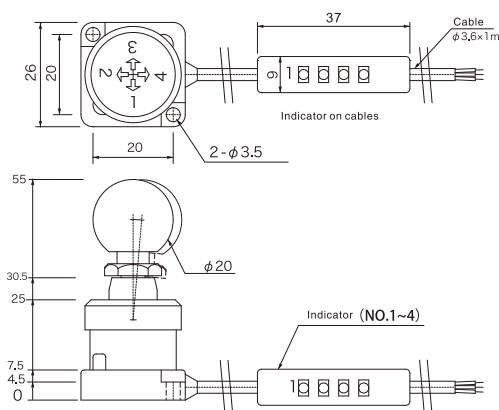
MR-T1X



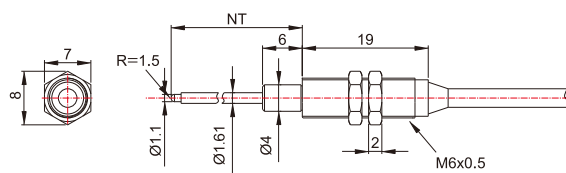
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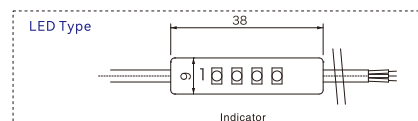
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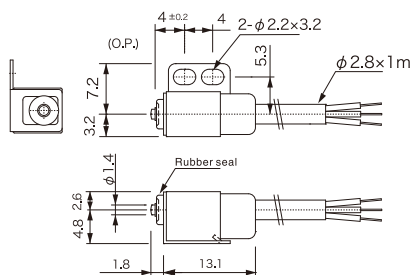
MR-T6N



Noted : NT=40/60/80/100

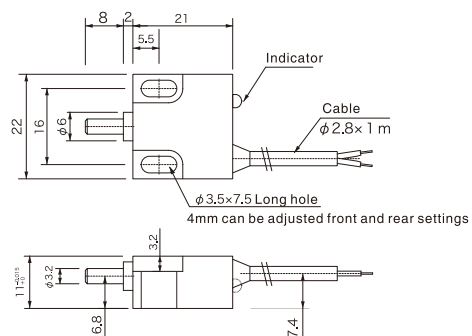


MR-T1QA

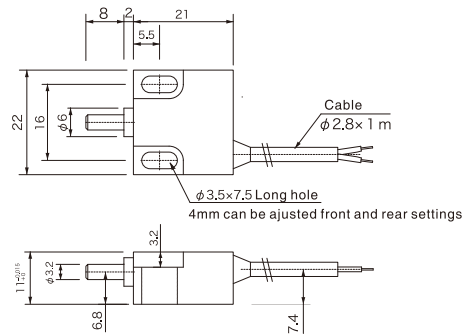


MR-T93Q

With Light



Without Light



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
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- Area
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- Temperature
- RFID
- Safety doorlock
- Pressure Switch
- Communication
- Accessories

Guidance

Contact
Contact

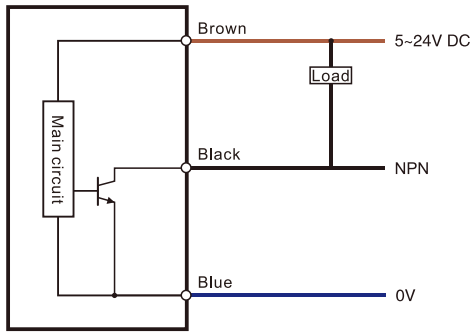
Contact

Circuit diagram

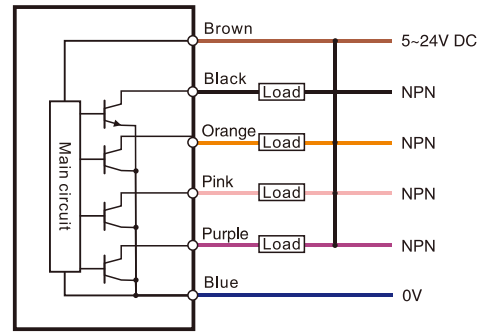
单位: mm

Contact

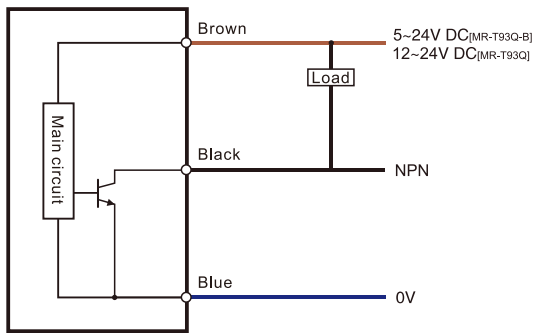
MR-T8(P)/T6/T10(B)/T1X/T6N/T12B/T1QA



MR-T5Z/T4X



MR-T93Q



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

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Vibration

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Safety door lock

Pressure Switch

Communication

Accessories

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Contact

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Guidance

Contact

Contact
