

## A Wealth of Models for All Types of Applications

- Easy installation, high-speed pulse generator, high-speed rotation control, and more.
- Direct mounted to metal (-N Models).
- A wealth of models ideal for limit control, counting control, and other applications (-N Models).



CE

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

## Ordering Information

**Sensors** [Refer to *Dimensions* on page 10.]

### DC 2-Wire Models

Appearance		Sensing distance		Model	
				Operation mode	
				NO	NC
Unshielded 	17 × 17	5 mm		TL-Q5MD1 2M *1 *2	TL-Q5MD2 2M *1
	25 × 25	7 mm		TL-N7MD1 2M *1	TL-N7MD2 2M *1
	30 × 30	12 mm		TL-N12MD1 2M *1	TL-N12MD2 2M *1
	40 × 40	20 mm		TL-N20MD1 2M *1	TL-N20MD2 2M *1

\*1. Models with a different frequency are available to prevent mutual interference. The model numbers are TL-N□MD□5 and TL-Q5MD□5 (e.g., TL-N7MD15).

\*2. Models are also available with robotics (bend resistant) cables. Add "-R" to the model number. (e.g., TL-Q5MD1-R 2M)

### DC 3-Wire and AC 2-Wire Models

Appearance		Sensing distance		Output configuration	Model	
					Operation mode	
					NO	NC
Unshielded 	8 × 9	2 mm		DC 3-wire, NPN	TL-Q2MC1 2M	—
	17 × 17	5 mm			TL-Q5MC1 2M *1 *2	TL-Q5MC2 2M
	25 × 25	5 mm		DC 3-wire, NPN	TL-N5ME1 2M *1 *2	TL-N5ME2 2M *1
				AC 2-wire	TL-N5MY1 2M *1	TL-N5MY2 2M *1
	30 × 30	10 mm		DC 3-wire, NPN	TL-N10ME1 2M *1 *2	TL-N10ME2 2M *1
				AC 2-wire	TL-N10MY1 2M *1	TL-N10MY2 2M *1
	40 × 40	20 mm		DC 3-wire, NPN	TL-N20ME1 2M *1 *2	TL-N20ME2 2M *1
				AC 2-wire	TL-N20MY1 2M *1	TL-N20MY2 2M *1

\*1. Models with a different frequency are available to prevent mutual interference. The model numbers are TL-□□M□□5 (e.g., TL-N5ME15).

\*2. Models are also available with robotics (bend resistant) cables. Add "-R" to the model number. (e.g., TL-Q5MC1-R 2M)

## Accessories (Order Separately)

**Mounting Brackets** A Mounting Bracket is provided with the Sensor depending on the model number. Check the column for the applicable Sensor.  
**[Refer to *Dimensions* on page 11.]**

Type	Model	Applicable Sensors	
		Provided with these Sensors	Order separately
Mounting Brackets	Y92E-C5	TL-N5ME□, TL-N7MD□	TL-N5MY□
	Y92E-C10	TL-N10ME□, TL-N12MD□	TL-N10MY□
	Y92E-C20	TL-N20ME□, TL-N20MD□	TL-N20MY□
Mounting Brackets for Conduits	Y92E-N5C15	---	TL-N5ME□, TL-N5MY□
	Y92E-N10C15	---	TL-N10ME□, TL-N10MY□

## Ratings and Specifications

### DC 2-Wire Models

Item	Model	TL-Q5MD□	TL-N7MD□	TL-N12MD□	TL-N20MD□
Sensing distance		5 mm ±10%	7 mm ±10%	12 mm ±10%	20 mm ±10%
Set distance		0 to 4 mm	0 to 5.6 mm	0 to 9.6 mm	0 to 16 mm
Differential travel		10% max. of sensing distance			
Detectable object		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 5.)			
Standard sensing object		Iron, 18 × 18 × 1 mm	Iron, 30 × 30 × 1 mm	Iron, 40 × 40 × 1 mm	Iron, 50 × 50 × 1 mm
Response frequency *		500 Hz			300 Hz
Power supply voltage (operating voltage range)		12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max.			
Leakage current		0.8 mA max.			
Control output	Load current	3 to 100 mA			
	Residual voltage	3.3 V max. (Load current: 100 mA, Cable length: 2 m)			
Indicators		D1 Models: Operation indicator (red), Setting indicator (green) D2 Models: Operation indicator (red)			
Operation mode (with sensing object approaching)		D1 Models: NO D2 Models: NC    Refer to the timing charts under <i>I/O Circuit Diagrams</i> on page 7 for details.			
Protection circuits		Load short-circuit protection, Surge suppressor			
Ambient temperature range		Operating/Storage: −25 to 70°C (with no icing or condensation)			
Ambient humidity range		Operating/Storage: 35% to 95% (with no condensation)			
Temperature influence		±10% max. of sensing distance at 23°C in the temperature range of −25 to 70°C			
Voltage influence		±2.5% max. of sensing distance at rated voltage in the rated voltage ±15% range			
Insulation resistance		50 MΩ min. (at 500 VDC) between current-carrying parts and case			
Dielectric strength		1,000 VAC for 1 min between current-carrying parts and case			
Vibration resistance		Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions			
Shock resistance		Destruction: 500 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	Destruction: 1,000 m/s <sup>2</sup> 10 times each in X, Y, and Z directions		
Degree of protection		IEC 60529 IP67, in-house standards: oil-resistant			
Connection method		Pre-wired Models (Standard cable length: 2 m)			
Weight (packed state)		Approx. 85 g	Approx. 165 g	Approx. 235 g	Approx. 330 g
Materials	Case	Heat-resistant ABS			
	Sensing surface				
Accessories		Instruction manual	Mounting Bracket, Mounting phillips screws (M4 × 25), Instruction manual	Mounting Bracket, Mounting phillips screws (M4 × 30), Instruction manual	Mounting Bracket, Mounting phillips screws (M5 × 40), Instruction manual

\* The response frequency is an average value.

Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

## DC 3-Wire Models

Item		Model	TL-Q2MC1	TL-Q5MC□
Sensing distance			2 mm ±15%	5 mm ±10%
Set distance			0 to 1.5 mm	0 to 4 mm
Differential travel			10% max. of sensing distance	
Detectable object			Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 6.)	
Standard sensing object			Iron, 8 × 8 × 1 mm	Iron, 15 × 15 × 1 mm
Response time			---	2 ms max.
Response frequency *			500 Hz	
Power supply voltage (operating voltage range)			12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max.	
Current consumption			15 mA max. at 24 VDC (no-load)	10 mA max. at 24 VDC
Control output	Load current		NPN open collector 100 mA max. at 30 VDC max.	NPN open collector 50 mA max. at 30 VDC max.
	Residual voltage		1 V max. (under load current of 100 mA with cable length of 2 m)	1 V max. (under load current of 50 mA with cable length of 2 m)
Indicators			Detection indicator (red)	
Operation mode (with sensing object approaching)			NO	C1 Models: NO C2 Models: NC
			Refer to the timing charts under <i>DC 3-Wire Models</i> on page 8 for details.	
Protection circuits			Reverse polarity protection, Surge suppressor	
Ambient temperature range			Operating/Storage: -10 to 60°C (with no icing or condensation)	Operating/Storage: -25 to 70°C (with no icing or condensation)
Ambient humidity range			Operating/Storage: 35% to 95% (with no condensation)	
Temperature influence			±10% max. of sensing distance at 23°C in the temperature range of -10 to 60°C	±20% max. of sensing distance at 23°C in the temperature range of -25 to 70°C
Voltage influence			±2.5% max. of sensing distance at rated voltage in rated voltage ±10% range	
Insulation resistance			50 MΩ min. (at 500 VDC) between current-carrying parts and case	5 MΩ min. (at 500 VDC) between current-carrying parts and case
Dielectric strength			1,000 VAC for 1 min between current-carrying parts and case	500 VAC, 50/60 Hz for 1 min between current-carrying parts and case
Vibration resistance			Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions	
Shock resistance			Destruction: 1,000 m/s <sup>2</sup> 10 times each in X, Y, and Z directions	Destruction: 200 m/s <sup>2</sup> 10 times each in X, Y, and Z directions
Degree of protection			IEC 60529 IP67, in-house standards: oil-resistant	IEC IP67
Connection method			Pre-wired Models (Standard cable length: 2 m)	
Weight (packed state)			Approx. 60 g	Approx. 90 g
Materials	Case		Heat-resistant ABS	
	Sensing surface			
Accessories			Instruction manual	---

\* The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

Item	Model	TL-N5ME□, TL-N5MY□	TL-N10ME□, TL-N10MY□	TL-N20ME□, TL-N20MY□
Sensing distance		5 mm ±10%	10 mm ±10%	20 mm ±10%
Set distance		0 to 4 mm	0 to 8 mm	0 to 16 mm
Differential travel		15% max. of sensing distance		
Detectable object		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on pages 6 and 7.)		
Standard sensing object		Iron, 30 × 30 × 1 mm	Iron, 40 × 40 × 1 mm	Iron, 50 × 50 × 1 mm
Response frequency *1		E Models: 500 Hz Y Models: 10 Hz		E Models: 40 Hz Y Models: 10 Hz
Power supply voltage *2 (operating voltage range)		E Models: 12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max. Y Models: 100 to 220 VAC (90 to 250 VAC), 50/60 Hz		
Current consumption		E Models: 8 mA max. at 12 VDC, 15 mA max. at 24 VDC		
Leakage current		Y Models: Refer to <i>Engineering Data</i> on page 5.		
Control output	Load current	E Models: 100 mA max. at 12 VDC, 200 mA max. at 24 VDC Y Models: 10 to 200 mA		
	Residual voltage	E Models: 1 V max. (load current: 200 mA) Y Models: Refer to <i>Engineering Data</i> on page 5.		
Indicators		E Models: Detection indicator (red) Y Models: Operation indicator (red)		
Operation mode (with sensing object approaching)		E1/Y1 Models: NO E2/Y2 Models: NC		
		Refer to the timing charts under <i>I/O Circuit Diagrams</i> on page 8 for details.		
Protection circuits		E Models: Reverse polarity protection, Surge suppressor Y Models: Surge suppressor		
Ambient temperature range		Operating/Storage: –25 to 70°C (with no icing or condensation)		
Ambient humidity range		Operating/Storage: 35% to 95% (with no condensation)		
Temperature influence		±10% max. of sensing distance at 23°C in the temperature range of –25 to 70°C		
Voltage influence		E Models: ±2.5% max. of sensing distance at rated voltage in rated voltage ±10% range Y Models: ±1% max. of sensing distance at rated voltage in rated voltage ±10% range		
Insulation resistance		50 MΩ min. (at 500 VDC) between current-carrying parts and case		
Dielectric strength		E Models: 1,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case Y Models: 2,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case		
Vibration resistance		Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions		
Shock resistance		Destruction: 500 m/s <sup>2</sup> 10 times each in X, Y, and Z directions		
Degree of protection		IEC 60529 IP67, in-house standards: oil-resistant		
Connection method		Pre-wired Models (Standard cable length: 2 m)		
Weight (packed state)		Approx. 190 g	Approx. 240 g	Approx. 340 g
Materials	Case	Heat-resistant ABS		
	Sensing surface			
Accessories		E Models: Mounting Bracket, Mounting phillips screws (M4 × 25), Instruction manual Y Models: Instruction manual	E Models: Mounting Bracket, Mounting phillips screws (M4 × 30), Instruction manual Y Models: Instruction manual	E Models: Mounting Bracket, Mounting phillips screws (M5 × 40), Instruction manual Y Models: Instruction manual

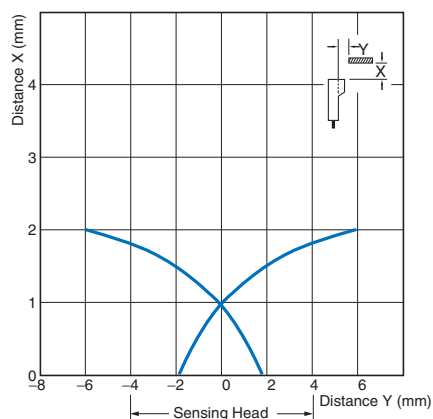
\*1. The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

\*2. E Models (DC switching models): A full-wave rectification power supply of 24 VDC ±10% (average value) can be used.

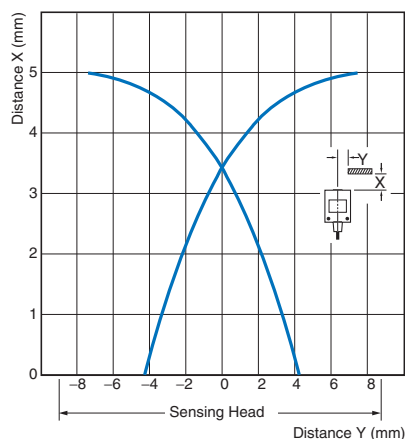
# Engineering Data (Reference Value)

## Sensing Area

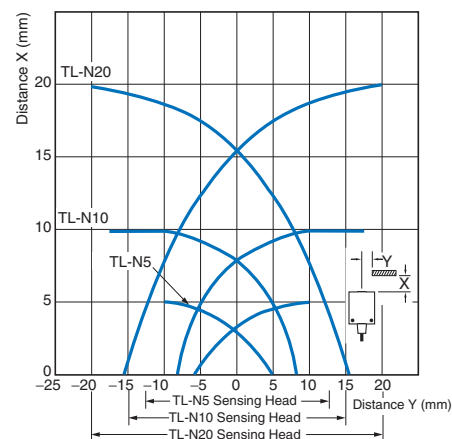
### TL-Q2MC1



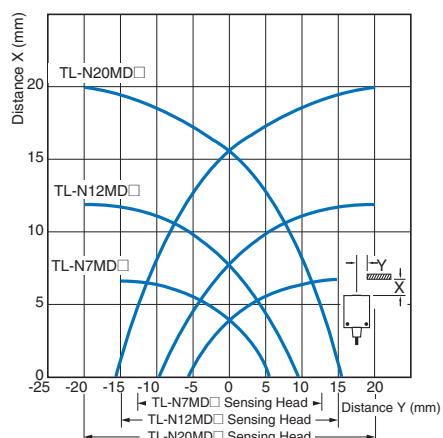
### TL-Q5M□□



### TL-N□ME□ TL-N□MY□

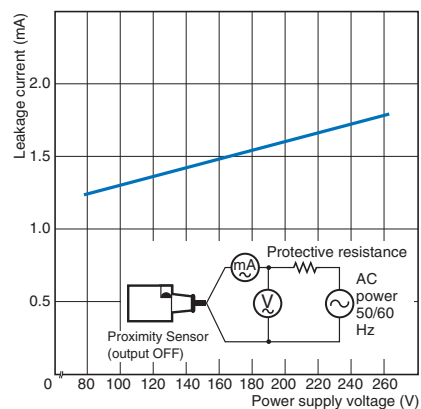


### TL-N□MD□



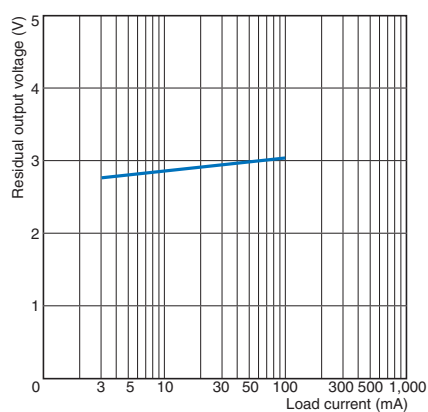
## Leakage Current

### TL-N□MY

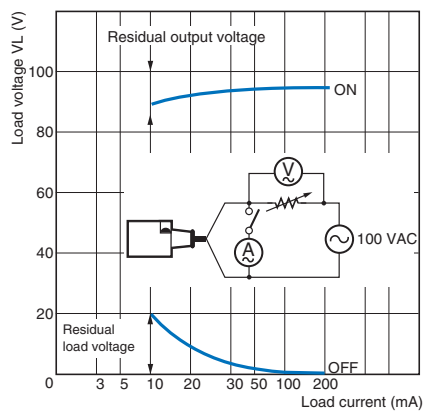


## Residual Output Voltage

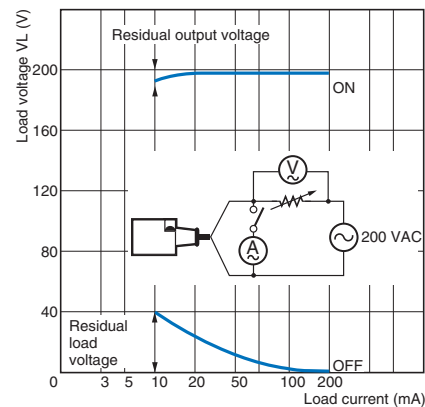
### TL-N□MD



### TL-N□MY at 100 VAC

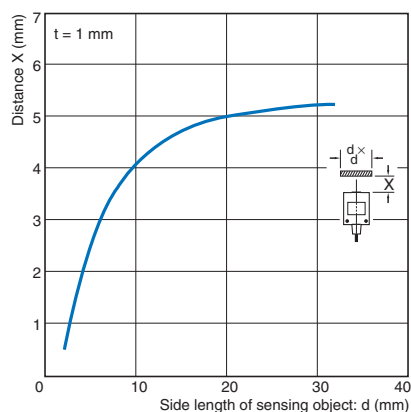


### TL-N□MY at 200 VAC



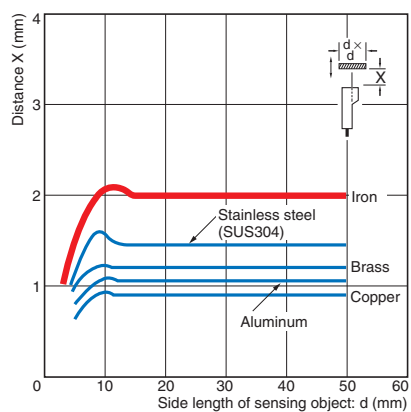
## Sensing Object Size vs. Sensing Distance

### TL-Q5MC

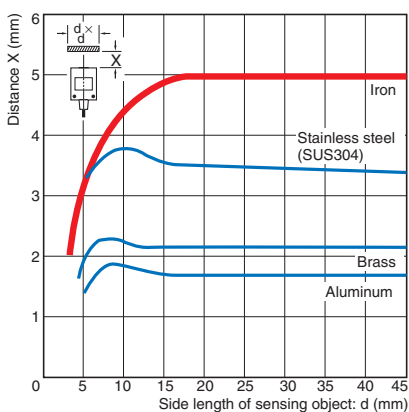


## Influence of Sensing Object Size and Material

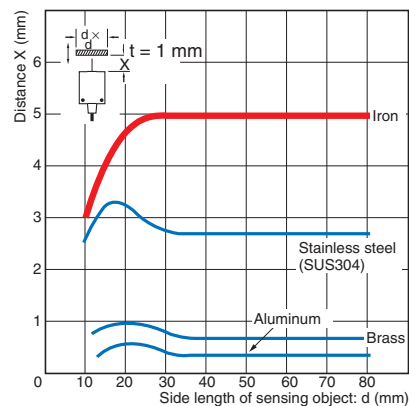
### TL-Q2MC1



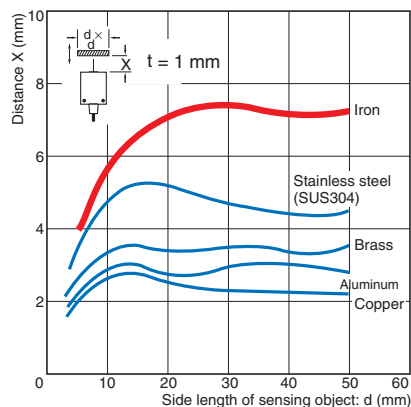
### TL-Q5M



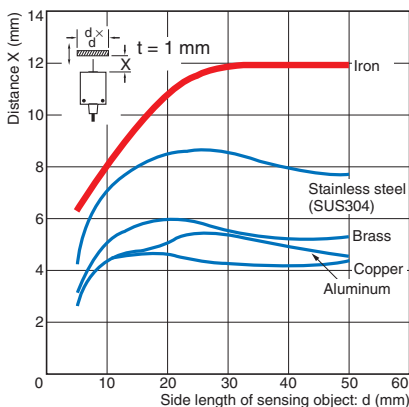
### TL-N5



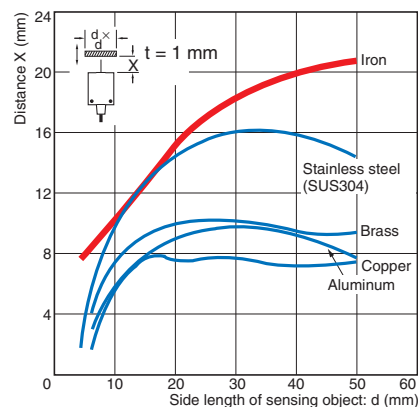
### TL-N7MD



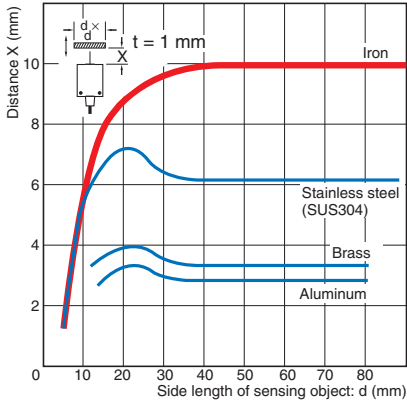
### TL-N12MD



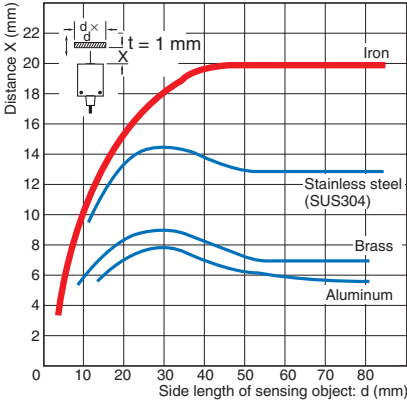
### TL-N20MD



TL-N10



TL-N20



I/O Circuit Diagrams

DC 2-Wire Models

Operation mode	Model	Timing chart	Output circuit
NO	TL-Q5MD1 TL-N7MD1 TL-N12MD1 TL-N20MD1	<p>Timing chart for NO operation mode. The chart shows the sensing area (Non-sensing area, Unstable sensing area, Stable sensing area) and the corresponding output signals (Setting indicator, Operation indicator, Control output) over time. The rated sensing distance is indicated.</p>	<p>Note: The load can be connected to either the +V or 0 V side.</p>
	TL-Q5MD2 TL-N7MD2 TL-N12MD2 TL-N20MD2	<p>Timing chart for NC operation mode. The chart shows the sensing area (Non-sensing area, Sensing area) and the corresponding output signals (Operation indicator, Control output) over time. The rated sensing distance is indicated.</p>	

## DC 3-Wire Models

Operation mode	Model	Timing chart	Output circuit
NO	TL-Q2MC1 TL-Q5MC1	<p>Sensing object</p> <p>Present </p> <p>Not present</p> <p>Output transistor (load)</p> <p>ON </p> <p>OFF</p> <p>Detection indicator (red)</p> <p>ON </p> <p>OFF</p>	<p>* Load current: 100 mA max., TL-Q2MC1 Load current: 50 mA max., TL-Q5MC1</p>
NC	TL-Q5MC2	<p>Sensing object</p> <p>Present </p> <p>Not present</p> <p>Output transistor (load)</p> <p>ON </p> <p>OFF</p> <p>Detection indicator (red)</p> <p>ON </p> <p>OFF</p>	
NO	TL-N5ME1 TL-N10ME1 TL-N20ME1	<p>Sensing object</p> <p>Present </p> <p>Not present</p> <p>Load (between brown and black leads)</p> <p>Operate </p> <p>Reset</p> <p>Output voltage (between black and blue leads)</p> <p>High </p> <p>Low</p> <p>Detection indicator (red)</p> <p>ON </p> <p>OFF</p>	<p>*1. Load current: 200 mA max. *2. When a transistor is connected.</p>
NC	TL-N5ME2 TL-N10ME2 TL-N20ME2	<p>Sensing object</p> <p>Present </p> <p>Not present</p> <p>Load (between brown and black leads)</p> <p>Operate </p> <p>Reset</p> <p>Output voltage (between black and blue leads)</p> <p>High </p> <p>Low</p> <p>Detection indicator (red)</p> <p>ON </p> <p>OFF</p>	

## AC 2-Wire Models

Operation mode	Model	Timing chart	Output circuit
NO	TL-N5MY1 TL-N10MY1 TL-N20MY1	<p>Sensing object</p> <p>Present </p> <p>Not present</p> <p>Load</p> <p>Operate </p> <p>Reset</p> <p>Operation indicator (red)</p> <p>ON </p> <p>OFF</p>	
NC	TL-N5MY2 TL-N10MY2 TL-N20MY2	<p>Sensing object</p> <p>Present </p> <p>Not present</p> <p>Load</p> <p>Operate </p> <p>Reset</p> <p>Operation indicator (red)</p> <p>ON </p> <p>OFF</p>	



## Safety Precautions

Refer to *Warranty and Limitations of Liability*.

### ⚠ WARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



- Do not short-circuit the load, otherwise the Sensor may be damaged.
  - Do not supply power to the Sensor with no load, otherwise the Sensor may be damaged.
- Applicable Models: AC 2-Wire Models



### Precautions for Correct Use

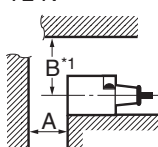
Do not use this product under ambient conditions that exceed the ratings.

#### ● Design

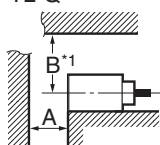
#### Influence of Surrounding Metal

When mounting the Sensor within a metal panel, ensure that the clearances given in the following table are maintained. Failure to maintain these distances may cause deterioration in the performance of the Sensor.

#### Rectangular Models TL-N\*2



#### TL-Q

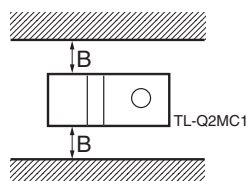
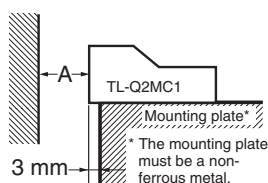


#### Influence of Surrounding Metal (Unit: mm)

Model	Distance	A	B *1
TL-Q5M□□		20	20
TL-N7MD□		40	35
TL-N12MD□		50	40
TL-N20MD□		70	60
TL-N5ME□, TL-N5MY□		20	23
TL-N10ME□, TL-N10MY□		40	30
TL-N20ME□, TL-N20MY□		80	45

\*1. The B dimension applies to the top, right-side, and left-side surfaces.

\*2. The values for A or B for the TL-N apply when there is metal on only one side of the sensor. If there is metal on two or more sides of the sensor, the value must be multiplied by two or more.



#### Influence of Surrounding Metal (Unit: mm)

Model	Distance	A	B
TL-Q2MC1		12	3

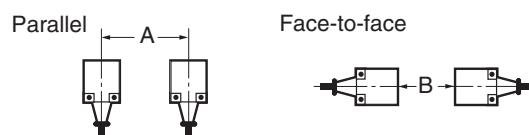
#### ● Mounting

When tightening the mounting screws, do not exceed the torque in the following table.

Model	Torque
TL-Q2MC1	0.59 N·m
TL-Q5M□□	
TL-N□M□□	0.9 to 1.5 N·m

#### Mutual Interference

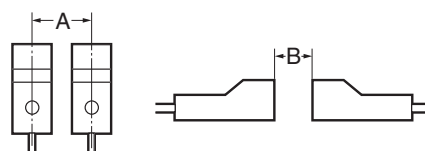
When installing Sensors face-to-face or side-by-side, ensure that the minimum distances given in the following table are maintained.



#### Mutual Interference (Unit: mm)

Model	Distance	A *	B *
TL-Q5MC□		60 (17)	120 (60)
TL-Q5MD□		60 (30)	120 (80)
TL-N7MD□		100 (50)	120 (60)
TL-N12MD□		120 (60)	200 (100)
TL-N20MD□		200 (100)	200 (100)
TL-N5ME□		80 (40)	80 (40)
TL-N5MY□		80 (40)	90 (40)
TL-N10ME□, TL-N10MY□		120 (60)	120 (60)
TL-N20ME□, TL-N20MY□		200 (100)	120 (60)

\* Values in parentheses apply to Sensors operating at different frequencies.



#### Mutual Interference (Unit: mm)

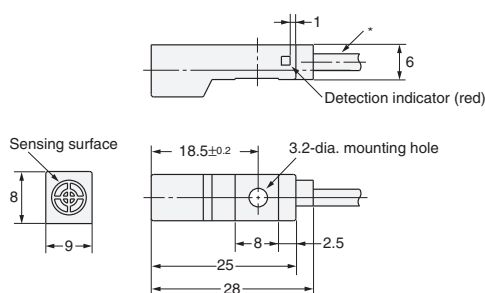
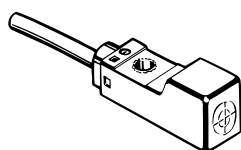
Model	Distance	A *	B *
TL-Q2MC1		30 (8)	90 (45)

\* Values in parentheses apply to Sensors operating at different frequencies.

# Dimensions

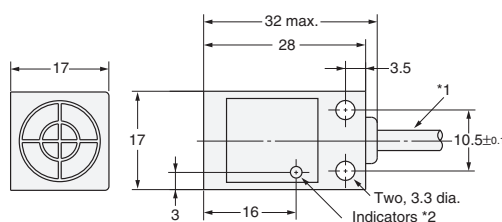
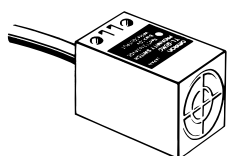
## Sensors

### TL-Q2MC1

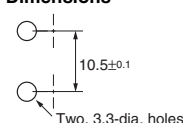


\* 2.9-dia. vinyl-insulated round cable with 3 conductors  
(Conductor cross section: 0.15 mm<sup>2</sup>, Insulator diameter: 0.9 mm), Standard length: 2 m

### TL-Q5M□□

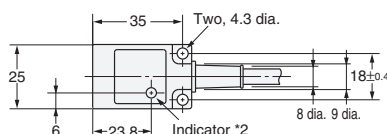
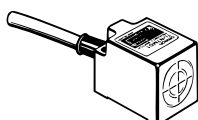


#### Mounting Hole Dimensions



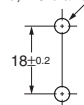
\*1. C Models: 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.2 mm<sup>2</sup>, Insulator diameter: 1.2 mm), Standard length: 2 m  
D Models: 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm<sup>2</sup>, Insulator diameter: 1.3 mm), Standard length: 2 m  
\*2. C Models: Detection indicator (red)  
D Models: Operation indicator (red), Setting indicator (green)

### TL-N7MD□, TL-N5ME□



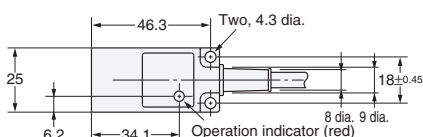
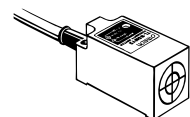
#### Mounting Hole Dimensions

Two, 4.5-dia. or M4 holes



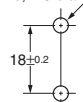
\*1. D Models: 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm<sup>2</sup>, Insulator diameter: 1.9 mm), Standard length: 2 m  
E Models: 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm<sup>2</sup>, Insulator diameter: 1.9 mm), Standard length: 2 m  
\*2. D1 Models: Operation indicator (red), Setting indicator (green)  
D2 Models: Operation indicator (red)  
E Models: Detection indicator (red)

### TL-N5MY□



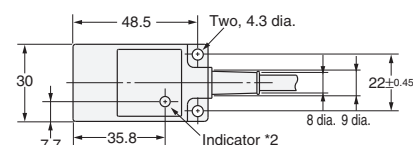
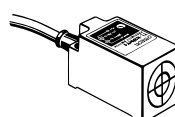
#### Mounting Hole Dimensions

Two, 4.5-dia. or M4 holes



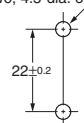
\* 6-dia. vinyl-insulated round cable with 2 conductors  
(Conductor cross section: 0.5 mm<sup>2</sup>, Insulator diameter: 1.9 mm), Standard length: 2 m

### TL-N12MD□, TL-N10ME□, TL-N10MY□



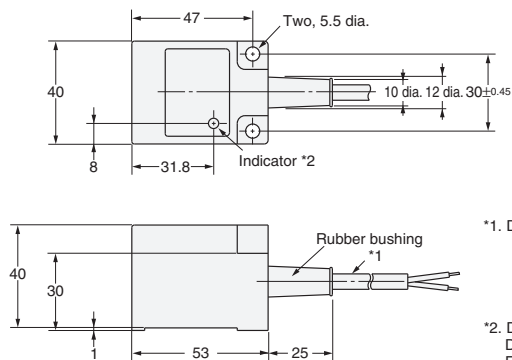
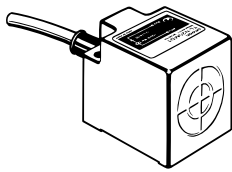
#### Mounting Hole Dimensions

Two, 4.5-dia. or M4 holes

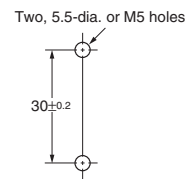


\*1. D/Y Models: 6-dia. vinyl-insulated round cable with 2 conductors  
(Conductor cross section: 0.5 mm<sup>2</sup>, Insulator diameter: 1.9 mm), Standard length: 2 m  
E Models: 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm<sup>2</sup>, Insulator diameter: 1.9 mm), Standard length: 2 m  
\*2. D1 Models: Operation indicator (red) and Setting indicator (green)  
D2 Models: Operation indicator (red)  
E Models: Detection indicator (red)  
Y Models: Operation indicator (red)

TL-N20MD□, TL-N20ME□, TL-N20MY□



Mounting Hole Dimensions

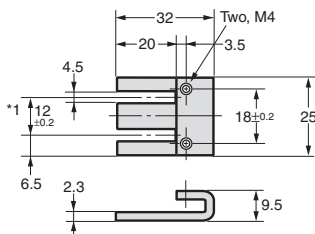


- \*1. D/Y Models: 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm<sup>2</sup>, Insulator diameter: 1.9 mm), Standard length: 2 m  
E Models: 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm<sup>2</sup>, Insulator diameter: 1.9 mm), Standard length: 2 m  
\*2. D1 Models: Operation indicator (red) and Setting indicator (green)  
D2 Models: Operation indicator (red)  
E Models: Detection indicator (red)  
Y Models: Operation indicator (red)

Accessories (Order Separately)

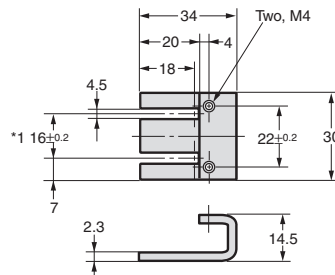
Mounting Bracket

Y92E-C5



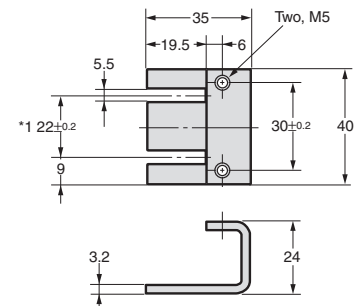
Applicable Models: TL-N5ME□ \*2  
Applicable Models: TL-N5MY□  
Applicable Models: TL-N7MD□ \*2  
Material: Mounting Bracket: Zinc-plated iron  
Mounting phillips Screws: Nickel-plated iron

Y92E-C10



Applicable Models: TL-N10ME□ \*2  
Applicable Models: TL-N10MY□  
Applicable Models: TL-N12MD□ \*2  
Material: Mounting Bracket: Zinc-plated iron  
Mounting phillips Screws: Nickel-plated iron

Y92E-C20

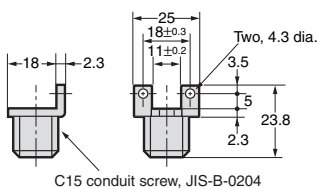


Applicable Models: TL-N20ME□ \*2  
Applicable Models: TL-N20MY□  
Applicable Models: TL-N20MD□ \*2  
Material: Mounting Bracket: Zinc-plated iron  
Mounting phillips Screws: Nickel-plated iron

- \*1. These are the mounting dimensions of the base of the Mounting Bracket.  
\*2. Provided with the product.

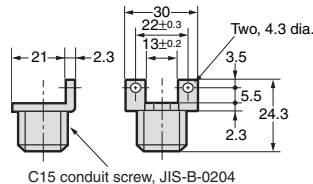
Mounting Brackets for Wiring Conduit Use (Sold Separately)

Y92E-N5C15



Applicable Models: TL-N5ME□  
Applicable Models: TL-N5MY□  
Applicable Models: TL-N7MD□  
Material: Zinc-plated iron

Y92E-N10C15



Applicable Models: TL-N10ME□  
Applicable Models: TL-N10MY□  
Applicable Models: TL-N12MD□  
Material: Zinc-plated iron

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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