

Rectangular Standard Proximity Sensor

TL-N

BERME

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).



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

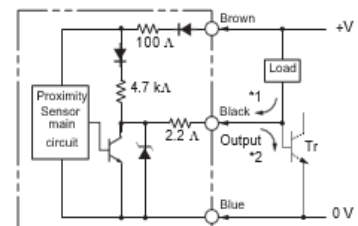
DC 3-Wire and AC 2-Wire Models

Appearance	Sensing distance	Output configuration	Model	
			NO	NC
Unshielded 	8 × 9 mm 2 mm	DC 3-wire, NPN	TL-Q2MC1 2M	—
	17 × 17 mm 5 mm		TL-Q5MC1 2M *1 *2	TL-Q5MC2 2M
	25 × 25 mm 5 mm	DC 3-wire, NPN	TL-N5ME1 2M *1 *2	TL-N5ME2 2M *1
			AC 2-wire	TL-N5MY1 2M *1
	30 × 30 mm 10 mm	DC 3-wire, NPN	TL-N10ME1 2M *1 *2	TL-N10ME2 2M *1
			AC 2-wire	TL-N10MY1 2M *1
40 × 40 mm 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@@@ (e.g., TL-N5ME15).

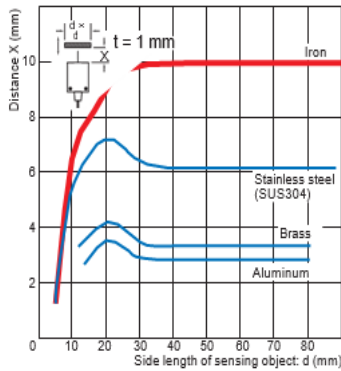
*2. Models are also available with robotics (bend resistant). Add "R" to the model number. (e.g., TL-Q5MC1-R 2M)

Output Mode	Model Numbers	Waveforms
NO	TL-N5ME1 TL-N10ME1 TL-N20ME1	Sensing object: Present (High), Not present (Low) Load (between brown and black leads): Operate (High), Reset (Low) Output voltage (between black and blue leads): High (ON), Low (OFF) Detection indicator (red): ON (High), OFF (Low)
NC	TL-N5ME2 TL-N10ME2 TL-N20ME2	Sensing object: Present (High), Not present (Low) Load (between brown and black leads): Operate (Low), Reset (High) Output voltage (between black and blue leads): High (ON), Low (OFF) Detection indicator (red): ON (High), OFF (Low)

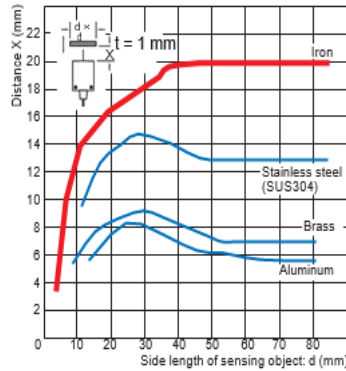


*1. Load current: 200 mA max.
*2. When a transistor is connected.

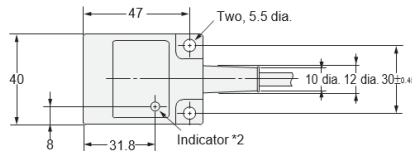
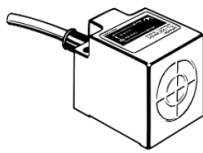
TL-N10@



TL-N20@

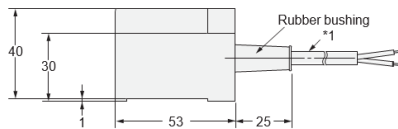


TL-N20MD@, TL-N20ME@, TL-N20MY@



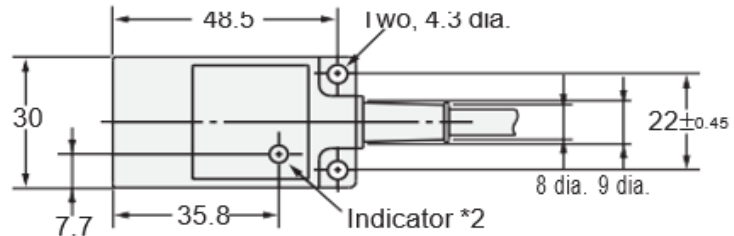
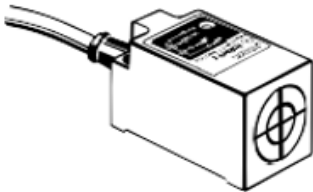
Mounting Hole Dimensions

Two, 5.5-dia. or M5 holes



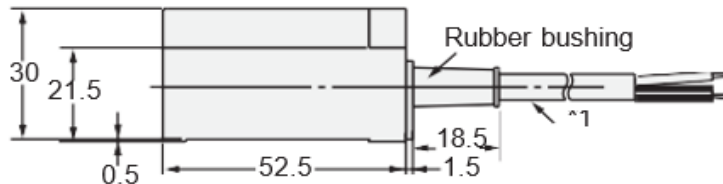
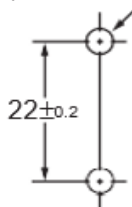
- *1. D/Y Models: 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- E Models: 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 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-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 mm², 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 mm², 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)