




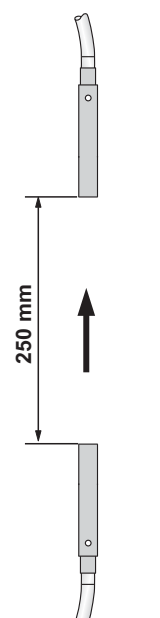






M5 & $\phi 4$ SERIES

A: M5 & $\phi 4$ SERIES

Thru-beam Mode (Stainless Steel Housing)

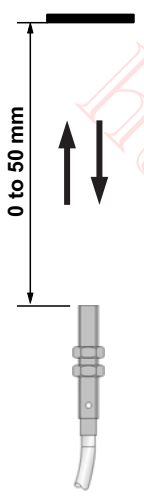




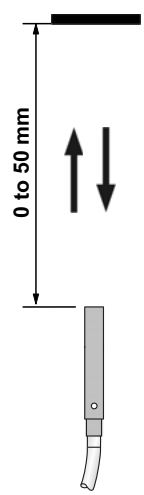




| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|----------------|---------------------------|------------------------------|
| M5 Series Thru-beam Mode Sensing Distance 0 to 250mm Infrared 880nm  | 2m Cable  | 10 -30V DC | Emitter | <u>M5S-T0250D-EX9C2L2</u> |
| | | | NPN Light-ON | <u>M5S-T0250N-LX9C3U2</u> |
| | | | NPN Dark-ON | <u>M5S-T0250N-DX9C3U2</u> |
| | | | PNP Light-ON | <u>M5S-T0250P-LX9C3U2</u> |
| | | | PNP Dark-ON | <u>M5S-T0250P-DX9C3U2</u> |
| | M5 connector  | 10 -30V DC | Emitter | <u>M5S-T0250D-EX9Q3LW</u> |
| | | | NPN Light-ON | <u>M5S-T0250N-LX9Q3UW</u> |
| | | | NPN Dark-ON | <u>M5S-T0250N-DX9Q3UW</u> |
| | | | PNP Light-ON | <u>M5S-T0250P-LX9Q3UW</u> |
| | | | PNP Dark-ON | <u>M5S-T0250P-DX9Q3UW</u> |
| | M5 connector (Snap in Style)  | 10 -30V DC | Emitter | <u>M5S-T0250D-EX9Q3LW/SN</u> |
| | | | NPN Light-ON | <u>M5S-T0250N-LX9Q3UW/SN</u> |
| | | | NPN Dark-ON | <u>M5S-T0250N-DX9Q3UW/SN</u> |
| | | | PNP Light-ON | <u>M5S-T0250P-LX9Q3UW/SN</u> |
| | | | PNP Dark-ON | <u>M5S-T0250P-DX9Q3UW/SN</u> |
| | M8 connector  | 10 -30V DC | Emitter | <u>M5S-T0250D-EX9Q3LP</u> |
| NPN Light-ON | | | <u>M5S-T0250N-LX9Q3UP</u> | |
| NPN Dark-ON | | | <u>M5S-T0250N-DX9Q3UP</u> | |
| PNP Light-ON | | | <u>M5S-T0250P-LX9Q3UP</u> | |
| PNP Dark-ON | | | <u>M5S-T0250P-DX9Q3UP</u> | |
| $\phi 4$ Series Thru-beam Mode Sensing Distance 0 to 250mm Infrared 880nm  | 2m Cable  | 10 -30V DC | Emitter | <u>D4S-T0250D-EX9C2L2</u> |
| | | | NPN Light-ON | <u>D4S-T0250N-LX9C3U2</u> |
| | | | NPN Dark-ON | <u>D4S-T0250N-DX9C3U2</u> |
| | | | PNP Light-ON | <u>D4S-T0250P-LX9C3U2</u> |
| | | | PNP Dark-ON | <u>D4S-T0250P-DX9C3U2</u> |
| | M5 connector  | 10 -30V DC | Emitter | <u>D4S-T0250D-EX9Q3LW</u> |
| | | | NPN Light-ON | <u>D4S-T0250N-LX9Q3UW</u> |
| | | | NPN Dark-ON | <u>D4S-T0250N-DX9Q3UW</u> |
| | | | PNP Light-ON | <u>D4S-T0250P-LX9Q3UW</u> |
| | | | PNP Dark-ON | <u>D4S-T0250P-DX9Q3UW</u> |
| | M5 connector (Snap in Style)  | 10 -30V DC | Emitter | <u>D4S-T0250D-EX9Q3LW/SN</u> |
| | | | NPN Light-ON | <u>D4S-T0250N-LX9Q3UW/SN</u> |
| | | | NPN Dark-ON | <u>D4S-T0250N-DX9Q3UW/SN</u> |
| | | | PNP Light-ON | <u>D4S-T0250P-LX9Q3UW/SN</u> |
| | | | PNP Dark-ON | <u>D4S-T0250P-DX9Q3UW/SN</u> |
| | M8 connector  | 10 -30V DC | Emitter | <u>D4S-T0250D-EX9Q3LP</u> |
| NPN Light-ON | | | <u>D4S-T0250N-LX9Q3UP</u> | |
| NPN Dark-ON | | | <u>D4S-T0250N-DX9Q3UP</u> | |
| PNP Light-ON | | | <u>D4S-T0250P-LX9Q3UP</u> | |
| PNP Dark-ON | | | <u>D4S-T0250P-DX9Q3UP</u> | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M5 & $\phi 4$ SERIES

Diffuse Mode (Stainless Steel Housing)

A: M5 & $\phi 4$ SERIES

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|---|---|----------------|--------------|------------------------------|
| M5 Sensor Diffuse Mode Sensing Distance 0 to 50mm Infrared 880nm  | 2m Cable  | 10 -30V DC | NPN Light-ON | <u>M5S-D0050N-LX9G3U2</u> |
| | | | NPN Dark-ON | <u>M5S-D0050N-DX9G3U2</u> |
| | | | PNP Light-ON | <u>M5S-D0050P-LX9G3U2</u> |
| | | | PNP Dark-ON | <u>M5S-D0050P-DX9G3U2</u> |
| | M5 connector  | 10 -30V DC | NPN Light-ON | <u>M5S-D0050N-LX9Q3UW</u> |
| | | | NPN Dark-ON | <u>M5S-D0050N-DX9Q3UW</u> |
| | | | PNP Light-ON | <u>M5S-D0050P-LX9Q3UW</u> |
| | | | PNP Dark-ON | <u>M5S-D0050P-DX9Q3UW</u> |
| | M5 connector (Snap in Style)  | 10 -30V DC | NPN Light-ON | <u>M5S-D0050N-LX9Q3UW/SN</u> |
| | | | NPN Dark-ON | <u>M5S-D0050N-DX9Q3UW/SN</u> |
| | | | PNP Light-ON | <u>M5S-D0050P-LX9Q3UW/SN</u> |
| | | | PNP Dark-ON | <u>M5S-D0050P-DX9Q3UW/SN</u> |
| | M8 connector  | 10 -30V DC | NPN Light-ON | <u>M5S-D0050N-LX9Q3UP</u> |
| | | | NPN Dark-ON | <u>M5S-D0050N-DX9Q3UP</u> |
| | | | PNP Light-ON | <u>M5S-D0050P-LX9Q3UP</u> |
| | | | PNP Dark-ON | <u>M5S-D0050P-DX9Q3UP</u> |
| $\phi 4$ Sensor Diffuse Mode Sensing Distance 0 to 50mm Infrared 880nm  | 2m Cable  | 10 -30V DC | NPN Light-ON | <u>D4S-D0050N-LX9G3U2</u> |
| | | | NPN Dark-ON | <u>D4S-D0050N-DX9G3U2</u> |
| | | | PNP Light-ON | <u>D4S-D0050P-LX9G3U2</u> |
| | | | PNP Dark-ON | <u>D4S-D0050P-DX9G3U2</u> |
| | M5 connector  | 10 -30V DC | NPN Light-ON | <u>D4S-D0050N-LX9Q3UW</u> |
| | | | NPN Dark-ON | <u>D4S-D0050N-DX9Q3UW</u> |
| | | | PNP Light-ON | <u>D4S-D0050P-LX9Q3UW</u> |
| | | | PNP Dark-ON | <u>D4S-D0050P-DX9Q3UW</u> |
| | M5 connector (Snap in Style)  | 10 -30V DC | NPN Light-ON | <u>D4S-D0050N-LX9Q3UW/SN</u> |
| | | | NPN Dark-ON | <u>D4S-D0050N-DX9Q3UW/SN</u> |
| | | | PNP Light-ON | <u>D4S-D0050P-LX9Q3UW/SN</u> |
| | | | PNP Dark-ON | <u>D4S-D0050P-DX9Q3UW/SN</u> |
| | M8 connector  | 10 -30V DC | NPN Light-ON | <u>D4S-D0050N-LX9Q3UP</u> |
| | | | NPN Dark-ON | <u>D4S-D0050N-DX9Q3UP</u> |
| | | | PNP Light-ON | <u>D4S-D0050P-LX9Q3UP</u> |
| | | | PNP Dark-ON | <u>D4S-D0050P-DX9Q3UP</u> |

Note:

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 In Preparation: Part numbers with a line through the middle

M5 & $\phi 4$ SERIESA: M5 & $\phi 4$ SERIES

Specifications

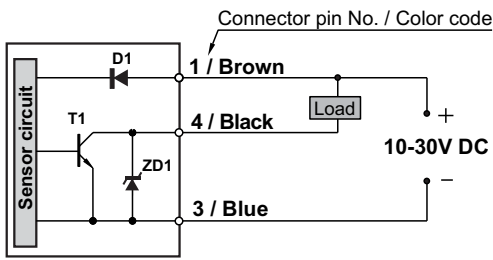
| Sensing Mode Item | Thru-beam Mode | Diffuse Mode |
|--------------------------------|--|---|
| Sensing distance | 250 mm | 50 mm |
| Detectable target | — | Standard white: 100mm x 100mm |
| Light source | Infrared LED 880nm | |
| Function display | Output : Yellow LED (The LED lights up when the output is switched. The LED flashes if the receiver does not receive enough light for reliable operation) | |
| Supply Voltage | 10 to 30V DC | |
| Ripple | ≤20 % | |
| No-load current | ≤15 mA | |
| Time delay before Availability | ≤ 20 ms | |
| Response time | ≤ 2.5 ms | |
| Switching frequency | ≤ 250 Hz | |
| Hysteresis | 10% or less of sensing distance | |
| Output current | Max. 100mA | |
| Output voltage drop | Max. 2.0 V at 100 mA | |
| Output operation | Light-ON or Dark-ON | |
| Overload protection | Yes | |
| Short-circuit protection | Yes | |
| Standard conformity | EN 60947-5-2 | |
| Degree of protection | IP 67 | |
| Ambient temperature | 0 to +55°C | |
| Extraneous light | Halogen light: 5,000ℓ; Sunlight: 10,000ℓ . | |
| Housing material | Stainless Steel | |
| Optical face | Scratch resistant mineral glass lens | |
| Connection type | Cable type: 2m PVC cable, 3 x 0.14 mm ² Connector type: M5x 0.5 3pin connector, M5 snap in 3pin connector, M8(pico-style) 3pin connector | |
| Weight | Cable type: 66g approx. (emitter & receiver), Connector type: 6g approx. (emitter & receiver) | Cable type: 35g approx. Connector type: 3g approx. |

M5 & $\phi 4$ SERIES

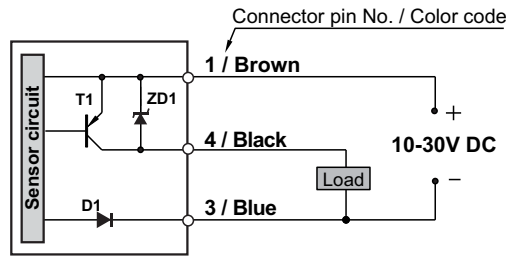
Connection Diagrams & Response Curve

A: M5 & $\phi 4$ SERIES

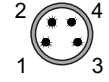
NPN output type



PNP output type

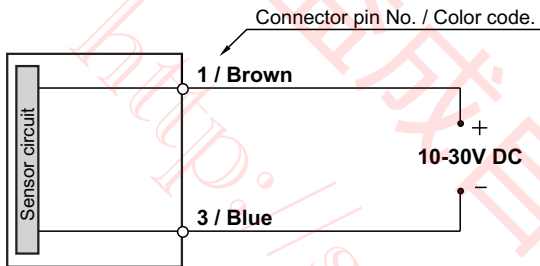


Connector face view Pico-Style

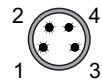


- 1. Brown (+)
- 2. Not used
- 3. Blue (-)
- 4. Black (Output A)

Emitter of Thru-beam Mode

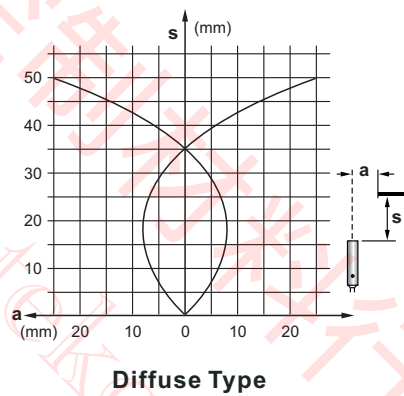
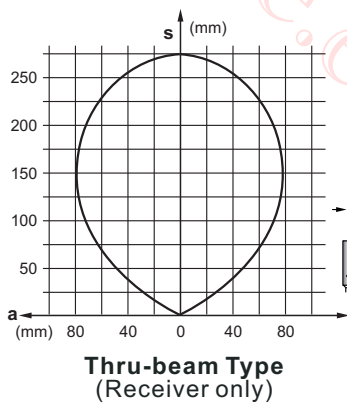


Connector face view Pico-Style



- 1. Brown (+)
- 2. Not used
- 3. Blue (-)
- 4. Not used

Response Curve



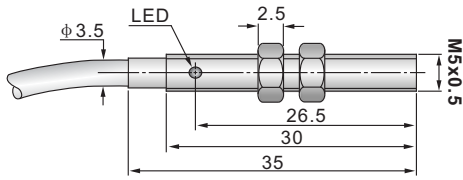
M5 & $\phi 4$ SERIES

A: M5 & $\phi 4$ SERIES

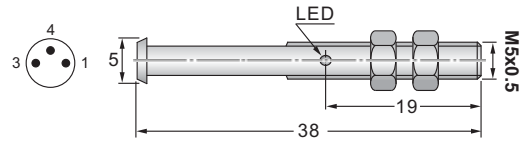
Dimensions (Unit: mm)

M5 Series

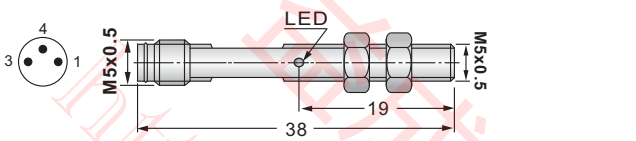
Cable type



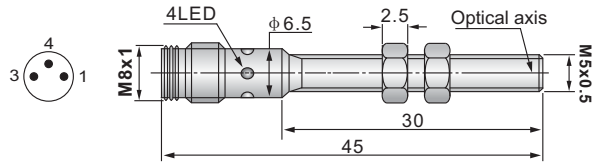
M5 snap-in connector type



M5 connector type

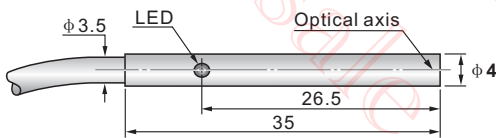


M8 connector type

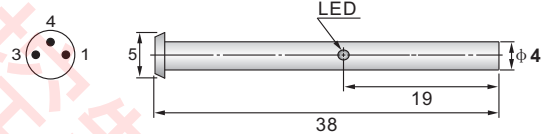


$\phi 4$ Series

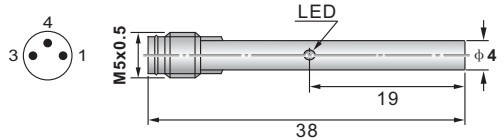
Cable type



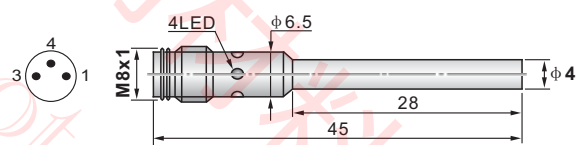
M5 snap-in connector type



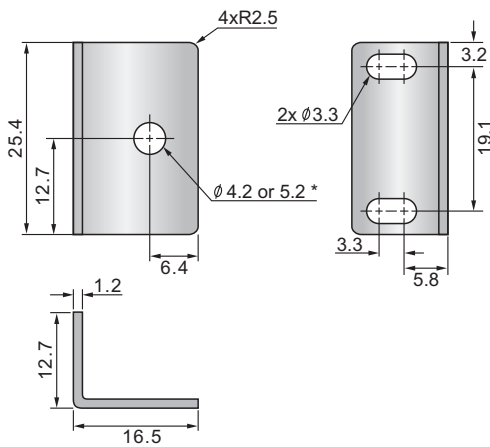
M5 connector type



M8 connector type



MB-2516 (Mounting bracket-optional)











*: 4.2 for D4 Series, 5.2 or M5 Series.

M8 SERIES

Thru-beam Mode (Red Light)








B: M8 SERIES

| Sensing Mode | Housing material | Connection | Output Mode | Part Number |
|---|---|--|---------------------------|---------------------------|
| <p>Light Source: Red Light 660nm</p>  <p>2m</p> <p>↑</p>  <p>Thru-beam mode Sensing distance: 2 m</p> | Stainless Steel |  <p>2m Cable</p> <p>CE</p> | Emitter | <u>M8S-T2000D-EX6C2L2</u> |
| | | | NPN Light-ON | <u>M8S-T2000N-LX6C3U2</u> |
| | | | NPN Dark-ON | <u>M8S-T2000N-DX6C3U2</u> |
| | | | PNP Light-ON | <u>M8S-T2000P-LX6C3U2</u> |
| | | | PNP Dark-ON | <u>M8S-T2000P-DX6C3U2</u> |
| | |  <p>Quick Disconnect (M8)</p> <p>CE</p> | Emitter | <u>M8S-T2000D-EX6Q4LP</u> |
| | | | NPN Light-ON | <u>M8S-T2000N-LX6Q4UP</u> |
| | | | NPN Dark-ON | <u>M8S-T2000N-DX6Q4UP</u> |
| | | | PNP Light-ON | <u>M8S-T2000P-LX6Q4UP</u> |
| |  <p>4 Pins 6" Pig tail (M8)</p> <p>CE</p> | Emitter | <u>M8S-T2000D-EX6P4LP</u> | |
| | | NPN Light-ON | <u>M8S-T2000N-LX6P4UP</u> | |
| | | NPN Dark-ON | <u>M8S-T2000N-DX6P4UP</u> | |
| | | PNP Light-ON | <u>M8S-T2000P-LX6P4UP</u> | |
| | | PNP Dark-ON | <u>M8S-T2000P-DX6P4UP</u> | |
| | Brass |  <p>2m Cable</p> <p>CE</p> | Emitter | <u>M8B-T2000D-EX6C2L2</u> |
| | | | NPN Light-ON | <u>M8B-T2000N-LX6C3U2</u> |
| | | | NPN Dark-ON | <u>M8B-T2000N-DX6C3U2</u> |
| | | | PNP Light-ON | <u>M8B-T2000P-LX6C3U2</u> |
| PNP Dark-ON | | | <u>M8B-T2000P-DX6C3U2</u> | |
|  <p>Quick Disconnect (M8)</p> <p>CE</p> | | Emitter | <u>M8B-T2000D-EX6Q4LP</u> | |
| | | NPN Light-ON | <u>M8B-T2000N-LX6Q4UP</u> | |
| | | NPN Dark-ON | <u>M8B-T2000N-DX6Q4UP</u> | |
| | | PNP Light-ON | <u>M8B-T2000P-LX6Q4UP</u> | |
|  <p>4 Pins 6" Pig tail (M8)</p> <p>CE</p> | | Emitter | <u>M8B-T2000D-EX6P4LP</u> | |
| | | NPN Light-ON | <u>M8B-T2000N-LX6P4UP</u> | |
| | | NPN Dark-ON | <u>M8B-T2000N-DX6P4UP</u> | |
| | | PNP Light-ON | <u>M8B-T2000P-LX6P4UP</u> | |
| | | PNP Dark-ON | <u>M8B-T2000P-DX6P4UP</u> | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M8 SERIES

Thru-beam Mode (Infrared Light)

| Sensing Mode | Housing material | Connection | Output Mode | Part Number | |
|---|---------------------|--|---|---------------------|---------------------|
| <p>Light Source: Infrared 880nm</p>  <p>2 m</p> <p>Thru-beam Mode Sensing distance: 2 m</p> | Stainless Steel |  2m Cable CE | Emitter | -M8S-T2000D-EX9C2L2 | |
| | | | NPN Light-ON | -M8S-T2000N-LX9C3U2 | |
| | | | NPN Dark-ON | -M8S-T2000N-DX9C3U2 | |
| | | | PNP Light-ON | -M8S-T2000P-LX9C3U2 | |
| | | | PNP Dark-ON | -M8S-T2000P-DX9C3U2 | |
| | | | Emitter | -M8S-T2000D-EX9Q4LP | |
| | |  Quick Disconnect (M8) CE | NPN Light-ON | -M8S-T2000N-LX9Q4UP | |
| | | | NPN Dark-ON | -M8S-T2000N-DX9Q4UP | |
| | | | PNP Light-ON | -M8S-T2000P-LX9Q4UP | |
| | | | PNP Dark-ON | -M8S-T2000P-DX9Q4UP | |
| | | |  4 Pins 6" Pig tail (M8) CE | Emitter | -M8S-T2000D-EX9P4LP |
| | | | | NPN Light-ON | -M8S-T2000N-LX9P4UP |
| | NPN Dark-ON | -M8S-T2000N-DX9P4UP | | | |
| | PNP Light-ON | -M8S-T2000P-LX9P4UP | | | |
| | PNP Dark-ON | -M8S-T2000P-DX9P4UP | | | |
| | Brass |  2m Cable CE | | Emitter | -M8B-T2000D-EX9C2L2 |
| | | | NPN Light-ON | -M8B-T2000N-LX9C3U2 | |
| | | | NPN Dark-ON | -M8B-T2000N-DX9C3U2 | |
| PNP Light-ON | | | -M8B-T2000P-LX9C3U2 | | |
| PNP Dark-ON | | | -M8B-T2000P-DX9C3U2 | | |
|  Quick Disconnect (M8) CE | | | Emitter | -M8B-T2000D-EX9Q4LP | |
| | | NPN Light-ON | -M8B-T2000N-LX9Q4UP | | |
| | | NPN Dark-ON | -M8B-T2000N-DX9Q4UP | | |
| | | PNP Light-ON | -M8B-T2000P-LX9Q4UP | | |
| | | PNP Dark-ON | -M8B-T2000P-DX9Q4UP | | |
| | |  4 Pins 6" Pig tail (M8) CE | Emitter | -M8B-T2000D-EX9P4LP | |
| NPN Light-ON | | | -M8B-T2000N-LX9P4UP | | |
| NPN Dark-ON | -M8B-T2000N-DX9P4UP | | | | |
| PNP Light-ON | -M8B-T2000P-LX9P4UP | | | | |
| PNP Dark-ON | -M8B-T2000P-DX9P4UP | | | | |

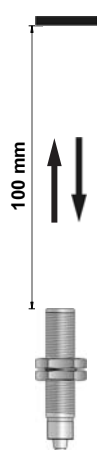


Note:
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 In Preparation: Part numbers with a line through the middle

B : M8 SERIES

M8 SERIES

Diffuse Mode (Red Light)

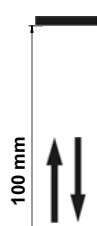






B: M8 SERIES

| Sensing Mode | Housing material | Connection | Output Mode | Part Number |
|--|------------------|---|---------------------------|---------------------------|
| <p>Light Source: Red Light 660nm</p>  <p>100 mm</p> <p>Diffuse Mode Sensing Distance: 100 mm</p> | Stainless Steel |  2m Cable CE | NPN Light-ON | <u>M8S-D0100N-LX6C3U2</u> |
| | | | NPN Dark-ON | <u>M8S-D0100N-DX6C3U2</u> |
| | | | PNP Light-ON | <u>M8S-D0100P-LX6C3U2</u> |
| | | | PNP Dark-ON | <u>M8S-D0100P-DX6C3U2</u> |
| | | _____ | _____ | |
| | | NPN Dark-ON | <u>M8S-D0100N-DX6Q4UP</u> | |
| | | PNP Light-ON | <u>M8S-D0100P-LX6Q4UP</u> | |
| | | PNP Dark-ON | <u>M8S-D0100P-DX6Q4UP</u> | |
| | | _____ | _____ | |
| | | NPN Dark-ON | <u>M8S-D0100N-DX6P4UP</u> | |
| | | PNP Light-ON | <u>M8S-D0100P-LX6P4UP</u> | |
| | | PNP Dark-ON | <u>M8S-D0100P-DX6P4UP</u> | |
| | _____ | _____ | | |
| | Brass |  2m Cable CE | NPN Light-ON | <u>M8B-D0100N-LX6C3U2</u> |
| | | | NPN Dark-ON | <u>M8B-D0100N-DX6C3U2</u> |
| | | | PNP Light-ON | <u>M8B-D0100P-LX6C3U2</u> |
| | | | PNP Dark-ON | <u>M8B-D0100P-DX6C3U2</u> |
| | | _____ | _____ | |
| | | NPN Dark-ON | <u>M8B-D0100N-DX6Q4UP</u> | |
| | | PNP Light-ON | <u>M8B-D0100P-LX6Q4UP</u> | |
| PNP Dark-ON | | <u>M8B-D0100P-DX6Q4UP</u> | | |
| _____ | | _____ | | |
| NPN Dark-ON | | <u>M8B-D0100N-DX6P4UP</u> | | |
| PNP Light-ON | | <u>M8B-D0100P-LX6P4UP</u> | | |
| PNP Dark-ON | | <u>M8B-D0100P-DX6P4UP</u> | | |
| _____ | _____ | | | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M8 SERIES

Diffuse Mode (Infrared Light)

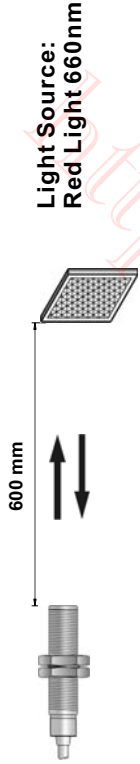






| Sensing Mode | Housing material | Connection | Output Mode | Part Number |
|--|------------------|---|---------------------------|---------------------------|
| Light Source: Infrared 880nm  100 mm Diffuse Mode Sensing Distance: 100 mm | Stainless Steel |  2m Cable | NPN Light-ON | <u>M8S-D0100N-LX9C3U2</u> |
| | | | NPN Dark-ON | <u>M8S-D0100N-DX9C3U2</u> |
| | | | PNP Light-ON | <u>M8S-D0100P-LX9C3U2</u> |
| | | | PNP Dark-ON | <u>M8S-D0100P-DX9C3U2</u> |
| | | — | — | |
| | |  Quick Disconnect (M8) | NPN Light-ON | <u>M8S-D0100N-LX9Q4UP</u> |
| | | | NPN Dark-ON | <u>M8S-D0100N-DX9Q4UP</u> |
| | | | PNP Light-ON | <u>M8S-D0100P-LX9Q4UP</u> |
| | | | PNP Dark-ON | <u>M8S-D0100P-DX9Q4UP</u> |
| | | — | — | |
| | |  4 Pins 6" Pig tail (M8) | NPN Light-ON | <u>M8S-D0100N-LX9P4UP</u> |
| | | | NPN Dark-ON | <u>M8S-D0100N-DX9P4UP</u> |
| | PNP Light-ON | | <u>M8S-D0100P-LX9P4UP</u> | |
| | PNP Dark-ON | | <u>M8S-D0100P-DX9P4UP</u> | |
| | — | — | | |
| | Brass |  2m Cable | NPN Light-ON | <u>M8B-D0100N-LX9C3U2</u> |
| | | | NPN Dark-ON | <u>M8B-D0100N-DX9C3U2</u> |
| | | | PNP Light-ON | <u>M8B-D0100P-LX9C3U2</u> |
| | | | PNP Dark-ON | <u>M8B-D0100P-DX9C3U2</u> |
| | | — | — | |
|  Quick Disconnect (M8) | | NPN Light-ON | <u>M8B-D0100N-LX9Q4UP</u> | |
| | | NPN Dark-ON | <u>M8B-D0100N-DX9Q4UP</u> | |
| | | PNP Light-ON | <u>M8B-D0100P-LX9Q4UP</u> | |
| | | PNP Dark-ON | <u>M8B-D0100P-DX9Q4UP</u> | |
| — | | — | | |
|  4 Pins 6" Pig tail (M8) | | NPN Light-ON | <u>M8B-D0100N-LX9P4UP</u> | |
| | | NPN Dark-ON | <u>M8B-D0100N-DX9P4UP</u> | |
| | PNP Light-ON | <u>M8B-D0100P-LX9P4UP</u> | | |
| | PNP Dark-ON | <u>M8B-D0100P-DX9P4UP</u> | | |
| — | — | | | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M8 SERIES

Retroreflective Mode (Red Light)

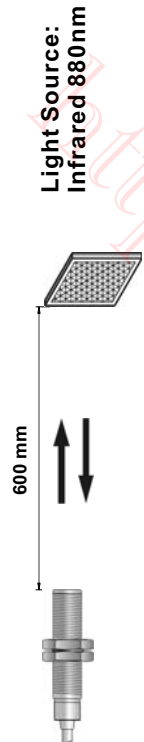


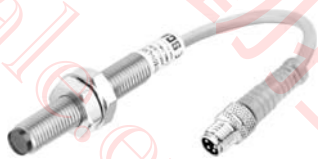



B: M8 SERIES

| Sensing Mode | Housing material | Connection | Output Mode | Part Number |
|---|------------------|---|----------------------|----------------------|
| Retroreflective Mode Light Source: Red Light 660nm  Sensing Distance: 600 mm (Note) | Stainless Steel |  2m Cable | NPN Light-ON | -M8S-L0600N-LX6C3U2- |
| | | | NPN Dark-ON | -M8S-L0600N-DX6C3U2- |
| | | | PNP Light-ON | -M8S-L0600P-LX6C3U2- |
| | | | PNP Dark-ON | -M8S-L0600P-DX6C3U2- |
| | | — | — | |
| | |  Quick Disconnect (M8) | NPN Light-ON | -M8S-L0600N-LX6Q4UP- |
| | | | NPN Dark-ON | -M8S-L0600N-DX6Q4UP- |
| | | | PNP Light-ON | -M8S-L0600P-LX6Q4UP- |
| | | | PNP Dark-ON | -M8S-L0600P-DX6Q4UP- |
| | | — | — | |
| | |  4 Pins 6" Pig tail (M8) | NPN Light-ON | -M8S-L0600N-LX6P4UP- |
| | | | NPN Dark-ON | -M8S-L0600N-DX6P4UP- |
| | PNP Light-ON | | -M8S-L0600P-LX6P4UP- | |
| | PNP Dark-ON | | -M8S-L0600P-DX6P4UP- | |
| | — | — | | |
| | Brass |  2m Cable | NPN Light-ON | -M8B-L0600N-LX6C3U2- |
| | | | NPN Dark-ON | -M8B-L0600N-DX6C3U2- |
| | | | PNP Light-ON | -M8B-L0600P-LX6C3U2- |
| | | | PNP Dark-ON | -M8B-L0600P-DX6C3U2- |
| | | — | — | |
| | |  Quick Disconnect (M8) | NPN Light-ON | -M8B-L0600N-LX6Q4UP- |
| | | | NPN Dark-ON | -M8B-L0600N-DX6Q4UP- |
| | | | PNP Light-ON | -M8B-L0600P-LX6Q4UP- |
| | | | PNP Dark-ON | -M8B-L0600P-DX6Q4UP- |
| — | | — | | |
|  4 Pins 6" Pig tail (M8) | | NPN Light-ON | -M8B-L0600N-LX6P4UP- | |
| | | NPN Dark-ON | -M8B-L0600N-DX6P4UP- | |
| | PNP Light-ON | -M8B-L0600P-LX6P4UP- | | |
| | PNP Dark-ON | -M8B-L0600P-DX6P4UP- | | |
| — | — | | | |

Note:
 Used with RE-4235 (supplied with sensor) reflector.
 In Preparation: Part numbers with a line through the middle

M8 SERIES

Retroreflective Mode (Infrared Light)

| Sensing Mode | Housing material | Connection | Output Mode | Part Number |
|--|------------------|---|--------------------|--------------------|
| <p>Retroreflective Mode</p> <p>Light Source: Infrared 880nm</p>  <p>600 mm</p> <p>Sensing Distance: 600 mm (Note)</p> | Stainless Steel |  2m Cable | NPN Light-ON | M8S-L0600N-LX9C3U2 |
| | | | NPN Dark-ON | M8S-L0600N-DX9C3U2 |
| | | | PNP Light-ON | M8S-L0600P-LX9C3U2 |
| | | | PNP Dark-ON | M8S-L0600P-DX9C3U2 |
| | | — | — | |
| | |  Quick Disconnect (M8) | NPN Light-ON | M8S-L0600N-LX9Q4UP |
| | | | NPN Dark-ON | M8S-L0600N-DX9Q4UP |
| | | | PNP Light-ON | M8S-L0600P-LX9Q4UP |
| | | | PNP Dark-ON | M8S-L0600P-DX9Q4UP |
| | | — | — | |
| | |  4 Pins 6" Pig tail (M8) | NPN Light-ON | M8S-L0600N-LX9P4UP |
| | | | NPN Dark-ON | M8S-L0600N-DX9P4UP |
| | PNP Light-ON | | M8S-L0600P-LX9P4UP | |
| | PNP Dark-ON | | M8S-L0600P-DX9P4UP | |
| | — | — | | |
| | Brass |  2m Cable | NPN Light-ON | M8B-L0600N-LX9C3U2 |
| | | | NPN Dark-ON | M8B-L0600N-DX9C3U2 |
| | | | PNP Light-ON | M8B-L0600P-LX9C3U2 |
| | | | PNP Dark-ON | M8B-L0600P-DX9C3U2 |
| | | — | — | |
|  Quick Disconnect (M8) | | NPN Light-ON | M8B-L0600N-LX9Q4UP | |
| | | NPN Dark-ON | M8B-L0600N-DX9Q4UP | |
| | | PNP Light-ON | M8B-L0600P-LX9Q4UP | |
| | | PNP Dark-ON | M8B-L0600P-DX9Q4UP | |
| — | | — | | |
|  4 Pins 6" Pig tail (M8) | | NPN Light-ON | M8B-L0600N-LX9P4UP | |
| | | NPN Dark-ON | M8B-L0600N-DX9P4UP | |
| | PNP Light-ON | M8B-L0600P-LX9P4UP | | |
| | PNP Dark-ON | M8B-L0600P-DX9P4UP | | |
| — | — | | | |

Note:

Used with RE-4235 (supplied with sensor) reflector.

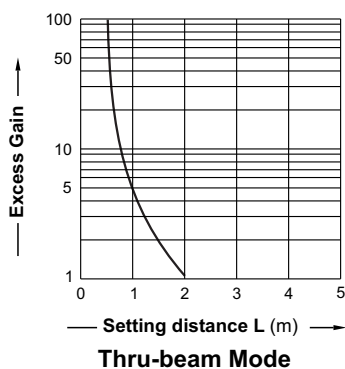
In Preparation: Part numbers with a line through the middle

Specifications

| Item \ Type | Thru-beam Mode | Diffuse Mode | Retroreflective Mode |
|-----------------------------|---|----------------------------|---|
| Sensing range | 2 m | 100 mm | 600 mm (Note) |
| Sensing object | ———— | on white paper (100x100mm) | 3-way mirror |
| Light Source | Red Light 660nm or Infrared Light 880nm | | |
| Supply Voltage | 10 to 30V DC Ripple P-P 10% or less | | |
| Current consumption | 30mA or less | | |
| Output | <NPN> output type NPN open-collector transistor <ul style="list-style-type: none"> • Applied voltage: 30V DC or less • Maximum sink current: 150mA • Voltage drop: 2.5V or less | | <PNP> output type PNP open-collector transistor <ul style="list-style-type: none"> • Applied voltage: 30V DC or less • Maximum source current: 150mA • Voltage drop: 2.5V or less |
| Output operation | Light-ON or Dark-ON (by type number) | | |
| Short-circuit protection | Yes | | |
| Reverse polarity protection | Yes | | |
| Overload current protection | Yes | | |
| Response time | 0.1ms | | |
| Operation indicator | Receiver: Red LED light up when the output is activated, Emitter: Red LED light up when the power is on. | | |
| Protection | IP67(IEC) | | |
| Ambient temperature | -20 to 70°C | | |
| Ambient humidity | 35 to 85% RH, Storage: 35 to 85% RH | | |
| EMC | IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m (in 30-1000MHz), EFT>1KV, ESD>4KV (contact) | | |
| Voltage Withstand Ability | IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure | | |
| Insulation Resistance | >20M Ω , with 1500V AC megger between all supply terminals connected together and enclosure | | |
| Vibration Resistance | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x, y and z directions for 30 min | | |
| Shock Resistance | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each | | |
| Housing Material | Stainless steel or Nickel-plated Brass | | |
| Connections | Cable type: 2m long with three conductors, Connector type: M8(pico-style) connector, Pigtail type: see Pigtail Series or our Cables & Connectors catalogue. | | |

Note: Used with RE-4235 (supplied with sensor) reflector.

Sensing Characteristics (Typical)

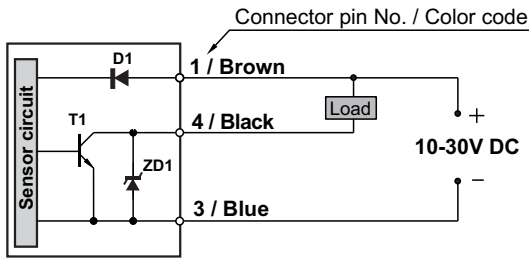


M8 SERIES

Connection Diagrams & Dimensions

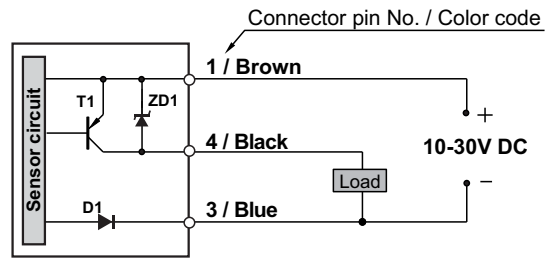
B: M8 SERIES

NPN output type



Symbol **D1**: Reverse polarity protection diode
ZD1: Surge absorption zener diode
T1: NPN output transistor

PNP output type



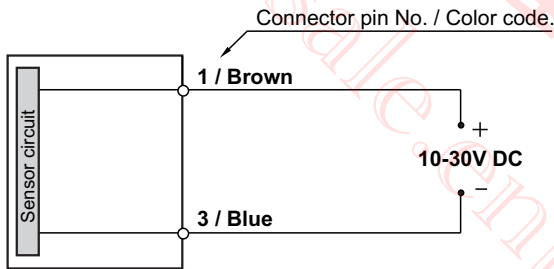
Symbol **D1**: Reverse polarity protection diode
ZD1: Surge absorption zener diode
T1: PNP output transistor

Connector face view Pico-Style



- 1. Brown (+)
- 2. Not used
- 3. Blue (-)
- 4. Black (Output)

Emitter of Thru-beam Mode



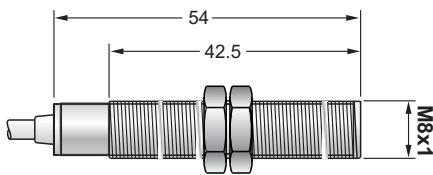
Connector face view Pico-Style



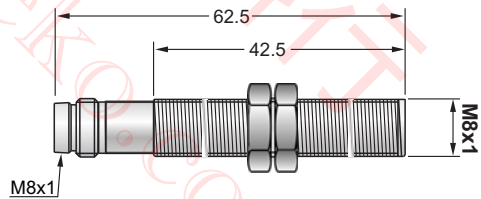
- 1. Brown (+)
- 2. Not used
- 3. Blue (-)
- 4. Not used

Dimensions (Unit: mm)

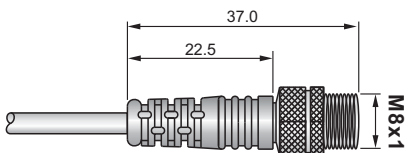
Cable Type Sensor



M8 (Pico-style) Type Sensor

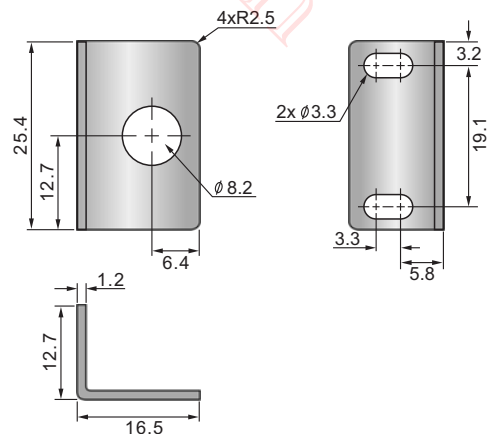


Pigtail* Type



*: Please see **Pigtail Series** or our **Cables & Connectors** catalogue for more information.












MB-2516 (mounting bracket-optional)



M12 SERIES








Thru-beam Mode (Standard shape)

C: M12 SERIES

| Sensing Mode | Housing Material | Connection | Supply Voltage | Output Mode | Part Number | | |
|--|-----------------------------|--|--|--|---------------------|---------------------|---------------------|
| <p>Light Source: Infrared 880nm</p>  <p>Thru-beam Mode Sensing distance: 5.2 m</p> | Plastic Housing | 2m Cable  | 10-30V DC | Emitter | M12P-T5200D-EX9C3L2 | | |
| | | Quick Disconnect (Pico-style)  | | NPN L.O./D.O. | M12P-T5200N-CX9C4U2 | | |
| | | | | PNP L.O./D.O. | M12P-T5200P-CX9C4U2 | | |
| | | | Quick Disconnect (Euro-style)  | 10-30V DC | Emitter | M12P-T5200D-EX9Q4LP | |
| | | Quick Disconnect (Euro-style)  | NPN L.O./D.O. | | M12P-T5200N-CX9Q4UP | | |
| | | | PNP L.O./D.O. | | M12P-T5200P-CX9Q4UP | | |
| | | 6" Pig tail (Euro-style)  | 10-30V DC CE | Emitter | M12P-T5200D-EX9Q4LE | | |
| | | | | NPN L.O./D.O. | M12P-T5200N-CX9Q4UE | | |
| | | | | PNP L.O./D.O. | M12P-T5200P-CX9Q4UE | | |
| | | | | Cable  | 10-30V DC CE | Emitter | M12P-T5200D-EX9P3LE |
| | | | | | | NPN L.O./D.O. | M12P-T5200N-CX9P4UE |
| | | | | | | PNP L.O./D.O. | M12P-T5200P-CX9P4UE |
| | Nickel-plated Brass Housing | Cable  | 10-30V DC CE | Emitter | M12B-T5200D-EX9C3L2 | | |
| | | | | NPN L.O./D.O. | M12B-T5200N-CX9C4U2 | | |
| | | | | PNP L.O./D.O. | M12B-T5200P-CX9C4U2 | | |
| | | | | Quick Disconnect (Pico-style)  | 10-30V DC CE | Emitter | M12B-T5200D-EX9Q4LP |
| NPN L.O./D.O. | | | | | | M12B-T5200N-CX9Q4UP | |
| PNP L.O./D.O. | | | | | | M12B-T5200P-CX9Q4UP | |
| Quick Disconnect (Euro-style)  | | 10-30V DC CE | Emitter | M12B-T5200D-EX9Q4LE | | | |
| | | | NPN L.O./D.O. | M12B-T5200N-CX9Q4UE | | | |
| | | | PNP L.O./D.O. | M12B-T5200P-CX9Q4UE | | | |
| 6" Pig tail (Euro-style)  | | 10-30V DC CE | Emitter | M12B-T5200D-EX9P4LE | | | |
| | | | NPN L.O./D.O. | M12B-T5200N-CX9P4UE | | | |
| | | | PNP L.O./D.O. | M12B-T5200P-CX9P4UE | | | |

M12 SERIES

Diffuse Mode (Standard shape)


















| Sensing Mode | Housing Material | Connection | Supply Voltage | Output Mode | Part Number |
|--|--|--|---------------------|---------------------|---------------------|
| Light Source: Infrared 880nm 200mm Diffuse Mode Sensing Distance: 200 mm | Plastic Housing | 2m Cable  CE | 10-30V DC | NPN L.O./D.O. | M12P-D0200N-CX9C4U2 |
| | | | | PNP L.O./D.O. | M12P-D0200P-CX9C4U2 |
| | | | | — | — |
| | | Quick Disconnect (Pico-style)  CE | 10-30V DC | NPN L.O./D.O. | M12P-D0200N-CX9Q4UP |
| | | | | PNP L.O./D.O. | M12P-D0200P-CX9Q4UP |
| | | | | — | — |
| | Quick Disconnect (Euro-style)  CE | 10-30V DC | NPN L.O./D.O. | M12P-D0200N-CX9Q4UE | |
| | | | PNP L.O./D.O. | M12P-D0200P-CX9Q4UE | |
| | | | — | — | |
| | Nickel-plated Brass Housing | 2m Cable  CE | 10-30V DC | NPN L.O./D.O. | M12B-D0200N-CX9C4U2 |
| | | | | PNP L.O./D.O. | M12B-D0200P-CX9C4U2 |
| | | | | — | — |
| Quick Disconnect (Pico-style)  CE | | 10-30V DC | NPN L.O./D.O. | M12B-D0200N-CX9Q4UP | |
| | | | PNP L.O./D.O. | M12B-D0200P-CX9Q4UP | |
| | | | — | — | |
| Quick Disconnect (Euro-style)  CE | 10-30V DC | NPN L.O./D.O. | M12B-D0200N-CX9Q4UE | | |
| | | PNP L.O./D.O. | M12B-D0200P-CX9Q4UE | | |
| | | — | — | | |
| 6" Pig tail (Euro-style)  CE | 10-30V DC | NPN L.O./D.O. | M12B-D0200N-CX9P4UE | | |
| | | PNP L.O./D.O. | M12B-D0200P-CX9P4UE | | |
| | | — | — | | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M12 SERIES

Retroreflective Mode (Standard shape)

C: M12 SERIES

| Sensing Mode | Housing Material | Connection | Supply Voltage | Output Mode | Part Number |
|--|--|--|---------------------|---------------------|---------------------|
| Retro-reflective mode Sensing distance: 2 m (Note) | Plastic Housing Light Source: Infrared 880nm  | 2m Cable  | 10-30V DC | NPN L.O./D.O. | M12P-L2000N-CX9C4U2 |
| | |  | | PNP L.O./D.O. | M12P-L2000P-CX9C4U2 |
| | | | | — | — |
| | | Quick Disconnect (Pico-style)  | 10-30V DC | NPN L.O./D.O. | M12P-L2000N-CX9Q4UP |
| | |  | | PNP L.O./D.O. | M12P-L2000P-CX9Q4UP |
| | | | | — | — |
| | | Quick Disconnect (Euro-style)  | 10-30V DC | NPN L.O./D.O. | M12P-L2000N-CX9Q4UE |
| | |  | | PNP L.O./D.O. | M12P-L2000P-CX9Q4UE |
| | — | | | — | |
| | 6" Pig tail (Euro-style)  | 10-30V DC | NPN L.O./D.O. | M12P-L2000N-CX9P4UE | |
| |  | | PNP L.O./D.O. | M12P-L2000P-CX9P4UE | |
| | | | — | — | |
| | Nickel-plated Brass Housing | 2m Cable  | 10-30V DC | NPN L.O./D.O. | M12B-L2000N-CX9C4U2 |
| | |  | | PNP L.O./D.O. | M12B-L2000P-CX9C4U2 |
| | | | | — | — |
| | | Quick Disconnect (Pico-style)  | 10-30V DC | NPN L.O./D.O. | M12B-L2000N-CX9Q4UP |
|  | | PNP L.O./D.O. | | M12B-L2000P-CX9Q4UP | |
| | | — | | — | |
| Quick Disconnect (Euro-style)  | | 10-30V DC | NPN L.O./D.O. | M12B-L2000N-CX9Q4UE | |
|  | | | PNP L.O./D.O. | M12B-L2000P-CX9Q4UE | |
| | — | | — | | |
| 6" Pig tail (Euro-style)  | 10-30V DC | NPN L.O./D.O. | M12B-L2000N-CX9P4UE | | |
|  | | PNP L.O./D.O. | M12B-L2000P-CX9P4UE | | |
| | | — | — | | |

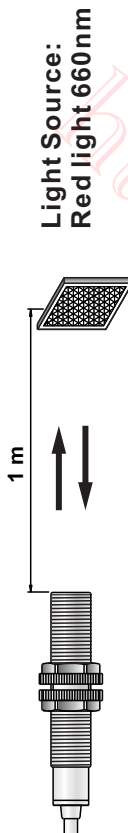








Note:

Used with RE-6152 (supplied with sensor) reflector.

In Preparation: Part numbers with a line through the middle

M12 SERIES

Retroreflective Mode with Polarizing Filter (Standard shape)

| Sensing Mode | Housing Material | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|---|------------------------|------------------------|------------------------|
| <p>Retro-reflective Mode (with polarizing filter) Sensing distance: 1 m (Note)</p>  <p>Light Source: Red light 660nm</p> <p>1 m</p> | Plastic Housing | 2m Cable | 10-30V DC | NPN L.O./D.O. | M12P-L1000N-CX6C4U2-PF |
| | |  <p>CE</p> | | PNP L.O./D.O. | M12P-L1000P-CX6C4U2-PF |
| | | | | — | — |
| | | Quick Disconnect (Pico-style) | 10-30V DC | NPN L.O./D.O. | M12P-L1000N-CX6Q4UP-PF |
| | |  <p>CE</p> | | PNP L.O./D.O. | M12P-L1000P-CX6Q4UP-PF |
| | | | | — | — |
| | | Quick Disconnect (Euro-style) | 10-30V DC | NPN L.O./D.O. | M12P-L1000N-CX6Q4UE-PF |
| | |  <p>CE</p> | | PNP L.O./D.O. | M12P-L1000P-CX6Q4UE-PF |
| | — | | | — | |
| | 6" Pig tail (Euro-style) | 10-30V DC | NPN L.O./D.O. | M12P-L1000N-CX6P4UE-PF | |
| |  <p>CE</p> | | PNP L.O./D.O. | M12P-L1000P-CX6P4UE-PF | |
| | | | — | — | |
| | Nickel-plated Brass Housing | 2m Cable | 10-30V DC | NPN L.O./D.O. | M12B-L1000N-CX6C4U2-PF |
| | |  <p>CE</p> | | PNP L.O./D.O. | M12B-L1000P-CX6C4U2-PF |
| | | | | — | — |
| | | Quick Disconnect (Pico-style) | 10-30V DC | NPN L.O./D.O. | M12B-L1000N-CX6Q4UP-PF |
|  <p>CE</p> | | PNP L.O./D.O. | | M12B-L1000P-CX6Q4UP-PF | |
| | | — | | — | |
| Quick Disconnect (Euro-style) | | 10-30V DC | NPN L.O./D.O. | M12B-L1000N-CX6Q4UE-PF | |
|  <p>CE</p> | | | PNP L.O./D.O. | M12B-L1000P-CX6Q4UE-PF | |
| | — | | — | | |
| 6" Pig tail (Euro-style) | 10-30V DC | NPN L.O./D.O. | M12B-L1000N-CX6P4UE-PF | | |
|  <p>CE</p> | | PNP L.O./D.O. | M12B-L1000P-CX6P4UE-PF | | |
| | | — | — | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

C: M12 SERIES

M12 SERIES

Specifications

C: M12 SERIES

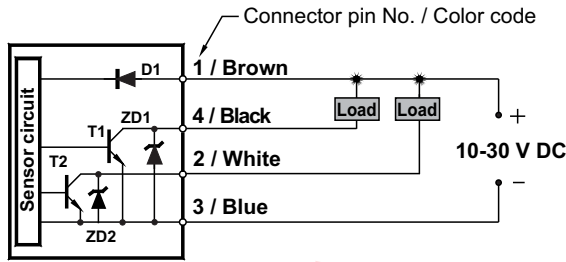
| Item | Type Model No. | Retroreflective | | Diffuse reflective | |
|-----------------------------|-------------------|---|--------------------------|---|-----------------------------------|
| | | Thru-beam | | | With polarizing filters |
| | | M12x-T5200x-xxxxxx | M12x-L2000x-xxxxxx | M12x-L1000x-xxxxxx-PF | M12x-D0200x-xxxxxx |
| Sensing range | | 5.2m | 2.0m (Note) | 1 m (Note) | 200mm |
| Sensing object | | Opaque object of 8mm or more | 3-way mirror | 3-way mirror | White paper |
| Hysteresis | | | | | 20% or less of operation distance |
| Supply Voltage | | 10 to 30V DC Ripple P-P 10% or less | | | |
| Current consumption | | 30mA or less | | | |
| Output | | <NPN> output type NPN open-collector transistor <ul style="list-style-type: none"> Applied voltage: 30V DC or less Maximum sink current: 150mA Voltage drop: 2.5V or less | | <PNP> output type PNP open-collector transistor <ul style="list-style-type: none"> Applied voltage: 30V DC or less Maximum source current: 150mA Voltage drop: 2.5V or less | |
| Output operation | | Light/ dark changeover by the A. load or B. Load | | | |
| Short-circuit protection | | Yes | | | |
| Reverse polarity protection | | Yes | | | |
| Overload current protection | | Yes | | | |
| Response time | | 1ms | | | |
| Operation indicator | | Red LED (light up when the output is activated) | | | |
| Pollution degree | | 3(Industrial environment) | | | |
| Protection | | IP67(IEC) | | | |
| Ambient temperature | | -25 to 70°C | | | |
| Ambient humidity | | 35 to 85% RH, Storage: 35 to 85% RH | | | |
| EMC | | IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact) | | | |
| Voltage Withstand Ability | | IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure | | | |
| Insulation Resistance | | >20M ^Ω , with 1500V AC megger between all supply terminals connected together and enclosure | | | |
| Vibration Resistance | | IEC 60947-5-2, Part 7.4.2 or 10-55Hz, 1.0mm amplitude in x, y and z directions for 30 min | | | |
| Shock Resistance | | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each | | | |
| Emitting element | | Infrared LED (modulated) | Infrared LED (modulated) | Red LED (modulated) | Infrared LED (modulated) |
| Material | | Plastic Housing: PBT; Metal Housing: Nickel-plated Brass | | | |
| Cable | | Cable 2m long with 4 conductors (Emitter of thru-beam mode with 3 conductors) | | | |
| Pigtail type | | See Pigtail Series or our Cables & Connectors catalogue. | | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

M12 SERIES

Connection & Sensing Characteristics

NPN output type



Connector pin position

Euro-style



- 1. Brown (+)
- 2. White (Output B)
- 3. Blue (-)
- 4. Black (Output A)

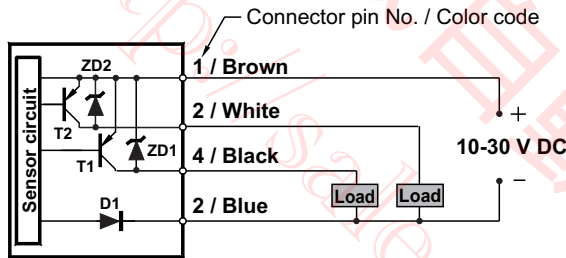
Pico-Style



- 1. Brown (+)
- 2. White (Output B)
- 3. Blue (-)
- 4. Black (Output A)

Symbol D1: Reverse polarity protection diode
 ZD1, ZD2: Surge absorption zener diode
 T1, T2: NPN output transistor

PNP output type



Connector pin position

Euro-style



- 1. Brown (+)
- 2. White (Output B)
- 3. Blue (-)
- 4. Black (Output A)

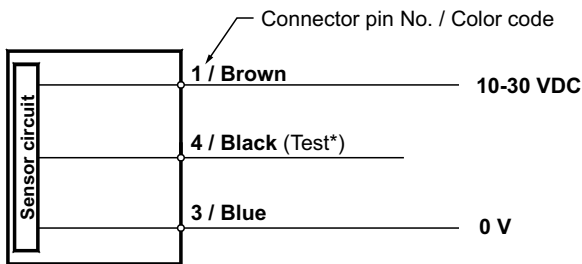
Pico-Style



- 1. Brown (+)
- 2. White (Output B)
- 3. Blue (-)
- 4. Black (Output A)

Symbol D1: Reverse polarity protection diode
 ZD1: Surge absorption zener diode
 T1: PNP output transistor

Emitter of Thru-beam Mode



Connector pin position

Euro-style



- 1. Brown (+)
- 2. Not used
- 3. Blue (-)
- 4. Black (Test in)

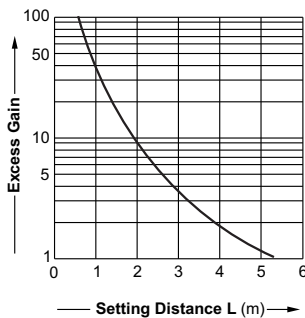
Pico-Style



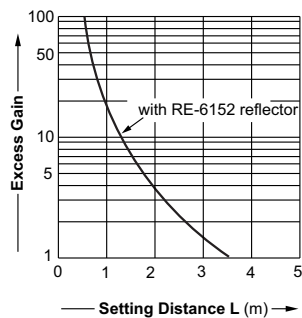
- 1. Brown (+)
- 2. Not used
- 3. Blue (-)
- 4. Black (Test in)

*: Test (black wire) = 0V, Emitter Off.

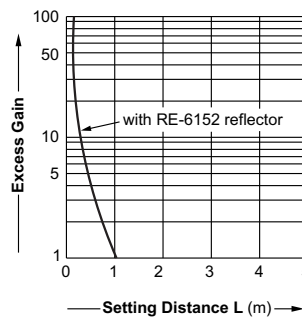
Sensing Characteristics (Typical)



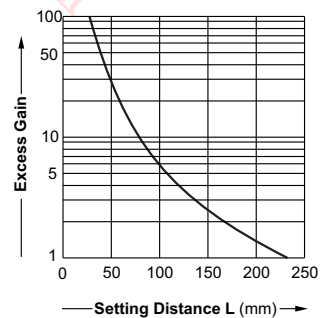
Thru-beam Sensor



Retro-reflective Sensor (Sn=2m)



Retro-reflective Sensor (Sn=1m, with polarizing filter)



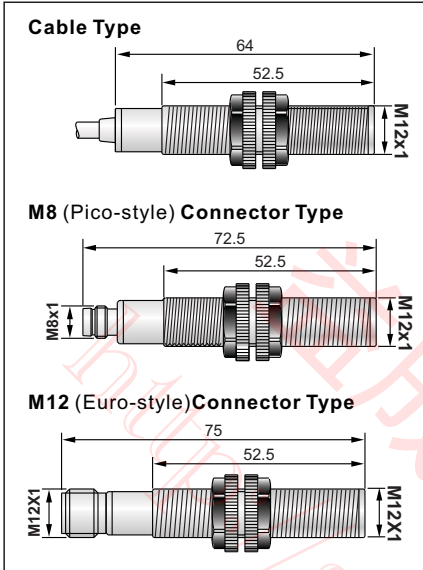
Diffuse Sensor

M12 SERIES

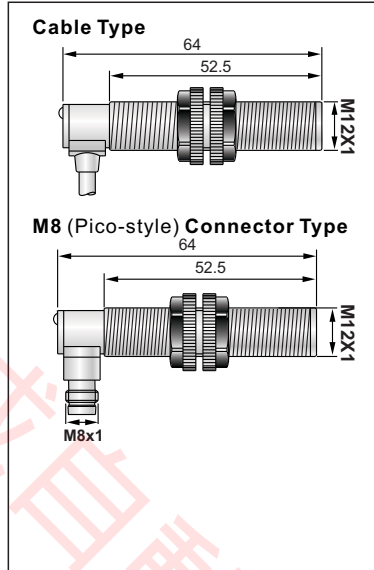
Dimensions (Unit: mm)

Plastic Housing Type Sensor

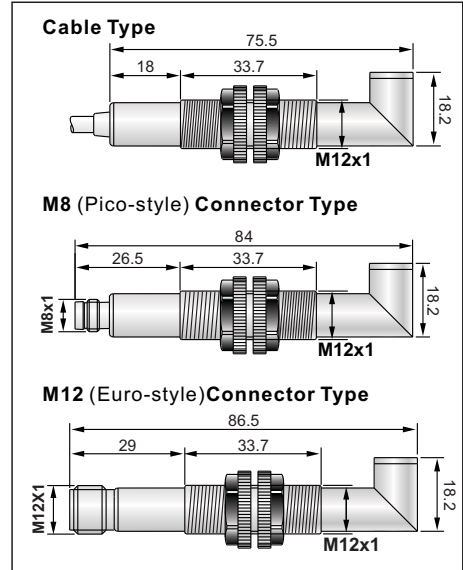
Standard Shape (X shape)



Y-Shape

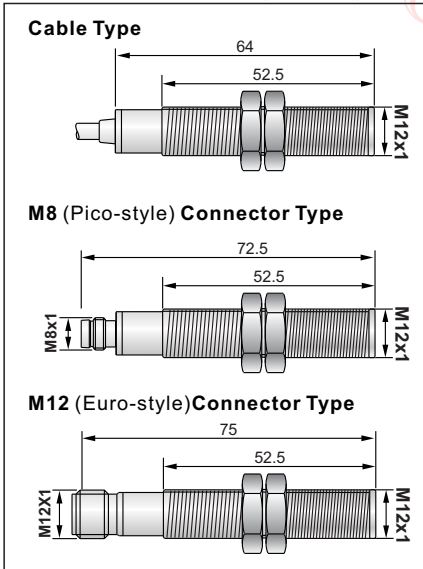


Z-Shape

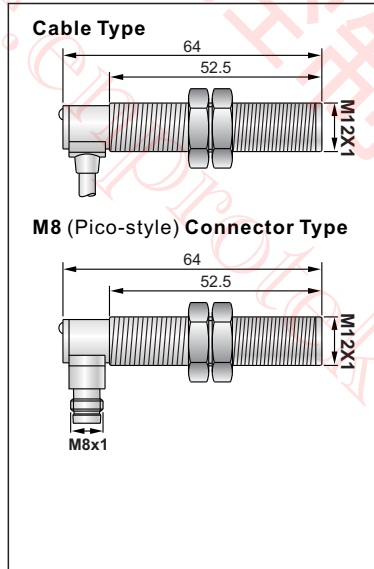


Brass Housing Type Sensor

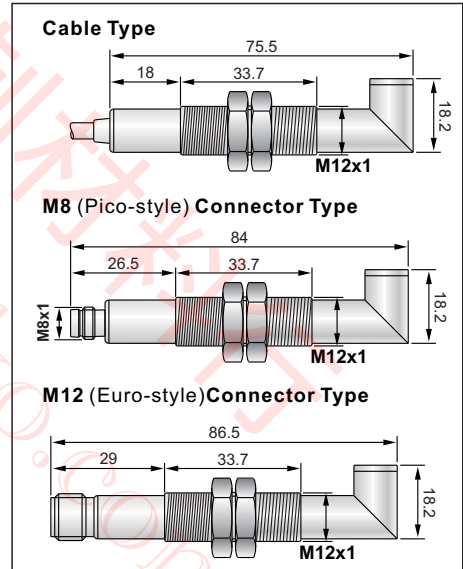
Standard Shape (X shape)



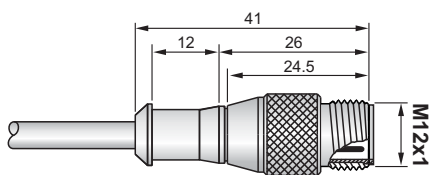
Y-Shape



Z-Shape

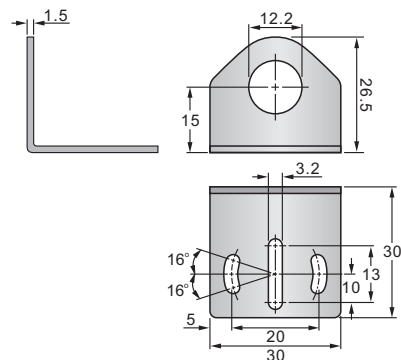


Pigtail* Type



*: Please see **Pigtail Series** or our **Cables & Connectors** catalogue for more information.

MB-3026 (Mounting Bracket*-optional)



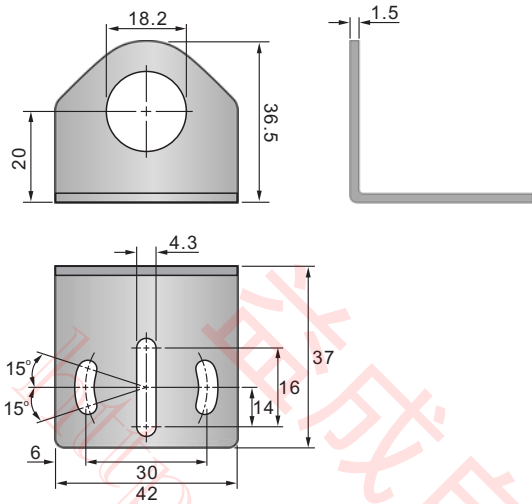
*: Please see **Accessories** (Universal Mounting Brackets Series).

M18 SERIES

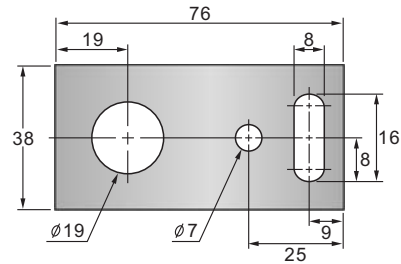
Mounting Bracket's* Dimensions (Unit: mm)

D : M18 SERIES

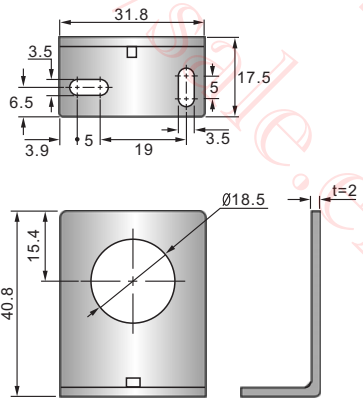
MB-4237 (optional)



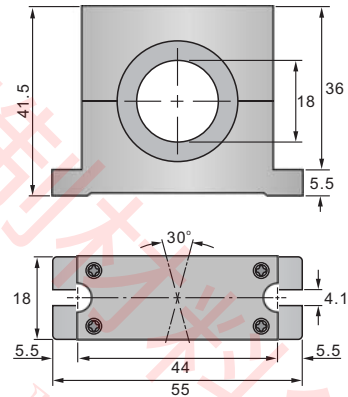
MB-7638 (optional)



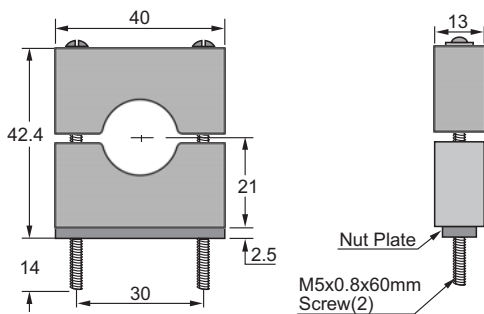
MB-4032 (optional)



MB-5542 (optional)

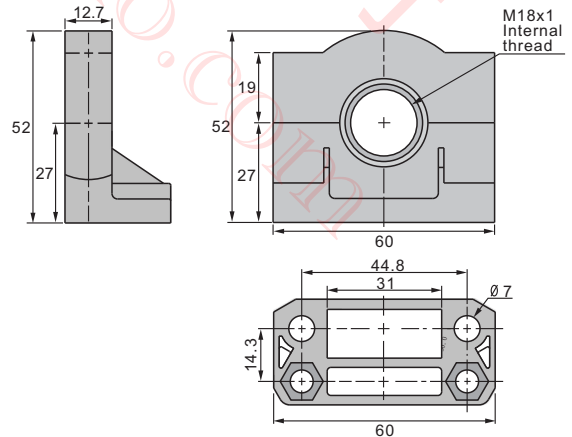


MB-4240 (optional)



18mm split clamp bracket
Black reinforced thermoplastic polyester

MB-6052 (optional)



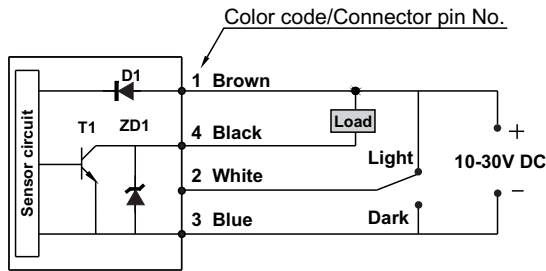
Mounting Bracket to Provide 360° Rotation

*: Please see **Accessories** (Universal Mounting Brackets Series).

M18 SERIES

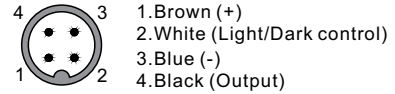
Circuit Diagrams (DC)

NPN output type



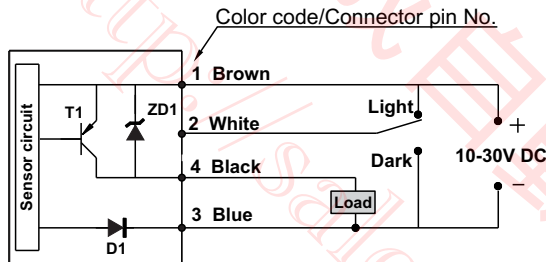
Connector pin position

Euro-style



Symbol D1: Reverse polarity protection diode
ZD1: Surge absorption zener diode
T1: NPN output transistor

PNP output type



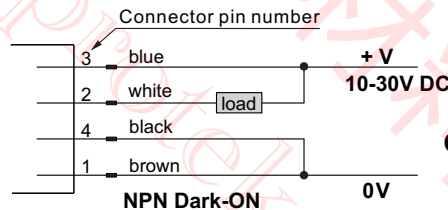
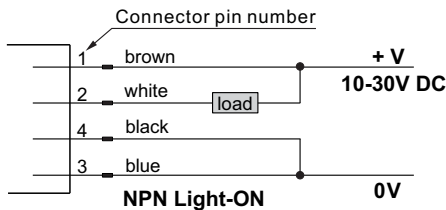
Connector pin position

Euro-style



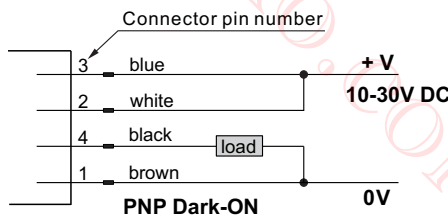
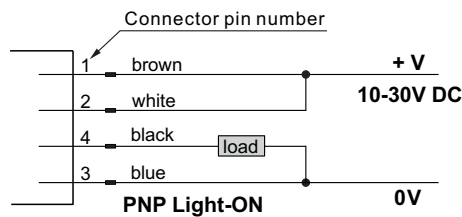
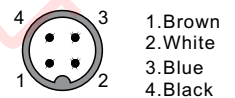
Symbol D1: Reverse polarity protection diode
ZD1: Surge absorption zener diode
T1: PNP output transistor

NPN/PNP output type

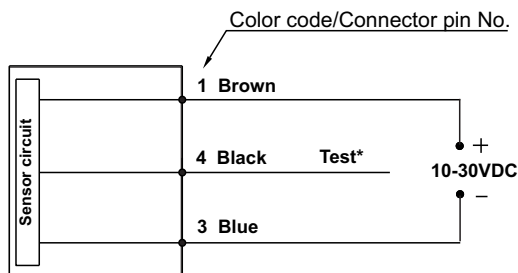


Connector pin position

Euro-style



Emitter of Thru-beam Mode



Connector pin position

Euro-style



*: Test (black wire) = 0V, Emitter Off.

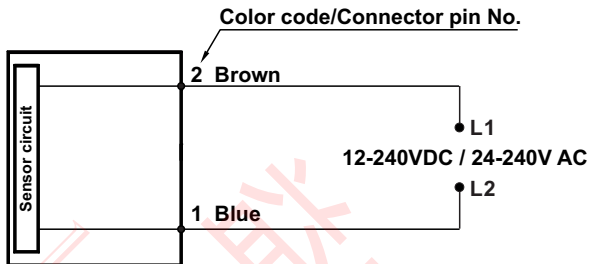
D: M18 SERIES

M18 SERIES

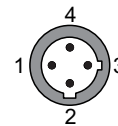
Circuit Diagrams (AC/DC) & Sensing Characteristics

Emitter of Thru-beam Mode

I/O circuit diagram



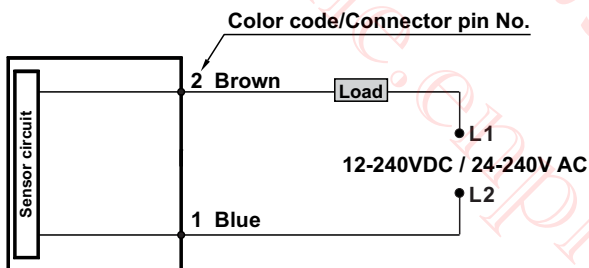
Connector pin position (Micro-style)



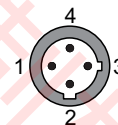
- 1. Blue(L2)
- 2. Brown (L1)
- 3. Black (Not used)
- 4. White (Not used)

Receiver of thru-beam mode, retroreflective & diffuse reflective sensor

I/O circuit diagram

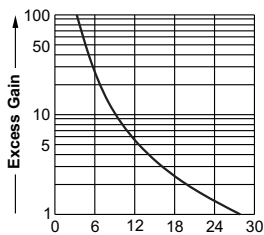


Connector pin position (Micro-style)

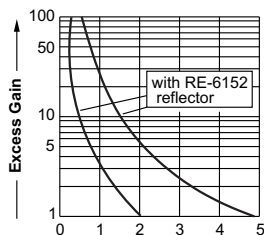


- 1. Blue(L2)
- 2. Brown (L1)
- 3. Black (Not used)
- 4. White (Not used)

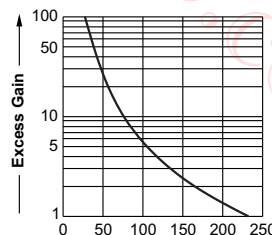
Sensing Characteristics (Typical)



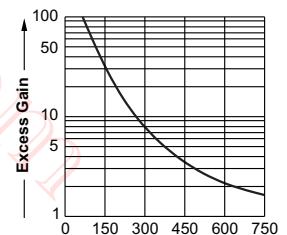
Setting Distance →
Thru-beam Mode



Setting Distance →
Retro-reflective Mode



Setting Distance →
Diffuse Mode
(Sn=150mm)



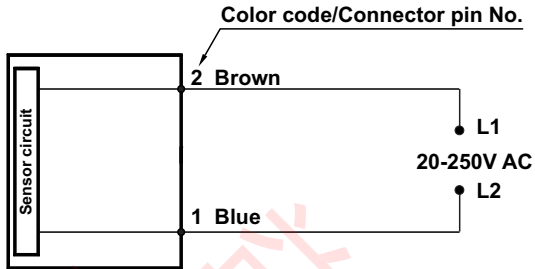
Setting Distance →
Diffuse Mode
(Sn=500mm)

M18 SERIES

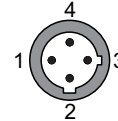
Circuit Diagrams (AC)

Emitter of Thru-beam Mode

I/O circuit diagram



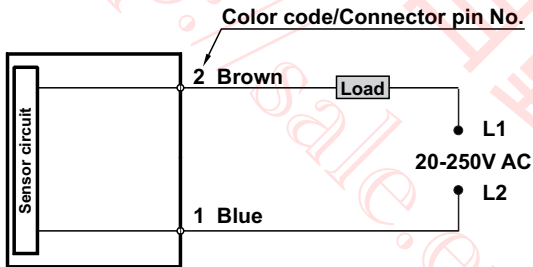
Connector pin position (Micro-style)



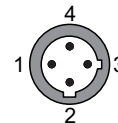
- 1. Blue(L2)
- 2. Brown (L1)
- 3. Black (Not used)
- 4. White (Not used)

Receiver of thru-beam mode, retroreflective & diffuse reflective sensor (2-wire)

I/O circuit diagram



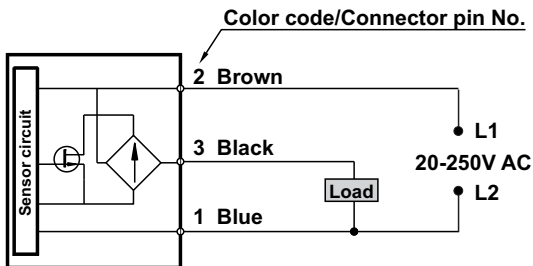
Connector pin position (Micro-style)



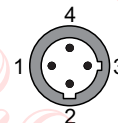
- 1. Blue(L2)
- 2. Brown (L1)
- 3. Black (Not used)
- 4. White (Not used)

Receiver of thru-beam mode, retroreflective & diffuse reflective sensor (3-wire)

I/O circuit diagram



Connector pin position (Micro-style)






- 1. Blue(L2)
- 2. Brown (L1)
- 3. Black (Output)
- 4. White (Not used)

D : M18 SERIES

M18 SERIES





Long Range Diffuse Mode (Plastic Housing, Standard shape)

D: M18 SERIES

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|---|---------------------|---------------------|
| Infrared LED 500mm Diffuse Mode Sensing Distance: 500mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | M18P-D0500N-CX9C4U2 |
| | | | PNP L.O./D.O. | M18P-D0500P-CX9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18P-D0500A-LX9C3U2 |
| | | Dark-ON (3-wire) | M18P-D0500A-DX9C3U2 | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | Quick Disconnect  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18P-D0500N-CX9Q4UE |
| | | | PNP L.O./D.O. | M18P-D0500P-CX9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18P-D0500A-LX9Q4UM |
| | | Dark-ON (3-wire) | M18P-D0500A-DX9Q4UM | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| 6" Pig tail  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18P-D0500N-CX9P4UE | |
| | | PNP L.O./D.O. | M18P-D0500P-CX9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | M18P-D0500A-LX9P4UM | |
| | Dark-ON (3-wire) | M18P-D0500A-DX9P4UM | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

M18 SERIES




Standard Diffuse Mode (Brass Housing, Y shape)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|--|---------------------|---------------------|
| <p>Infrared LED</p>  <p>150 mm</p> <p>Diffuse Mode</p> <p>Sensing Distance: 150 mm</p> | <p>2m Cable</p>  | 10-30V DC | NPN L.O./D.O. | M18B-D0150N-CY9C4U2 |
| | | | PNP L.O./D.O. | M18B-D0150P-CY9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC | Dark-ON (3-wire) | |
| | | | Light-ON (2-wire) | |
| | | Dark-ON (2-wire) | | |
| | <p>Quick Disconnect</p>  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-D0150N-CY9Q4UE |
| | | | PNP L.O./D.O. | M18B-D0150P-CY9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | |
| | | | Light-ON (2-wire) | |
| | | Dark-ON (2-wire) | | |
| <p>6" Pig tail</p>  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-D0150N-CY9P4UE | |
| | | PNP L.O./D.O. | M18B-D0150P-CY9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | | |
| | | Light-ON (2-wire) | | |
| | Dark-ON (2-wire) | | | |

D : M18 SERIES

M18 SERIES

Standard Diffuse Mode (Brass Housing, Standard shape)




| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|---|---------------------|---------------------|
| Infrared LED 150 mm Diffuse Mode Sensing Distance: 150 mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | M18B-D0150N-CX9C4U2 |
| | | | PNP L.O./D.O. | M18B-D0150P-CX9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18B-D0150A-LX9C3U2 |
| | | Dark-ON (3-wire) | M18B-D0150A-DX9C3U2 | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | Quick Disconnect  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-D0150N-CX9Q4UE |
| | | | PNP L.O./D.O. | M18B-D0150P-CX9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18B-D0150A-LX9Q4UM |
| | | Dark-ON (3-wire) | M18B-D0150A-DX9Q4UM | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| 6" Pig tail  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-D0150N-CX9P4UE | |
| | | PNP L.O./D.O. | M18B-D0150P-CX9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | M18B-D0150A-LX9P4UM | |
| | Dark-ON (3-wire) | M18B-D0150A-DX9P4UM | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

D : M18 SERIES

M18 SERIES




Standard Diffuse Mode (Plastic Housing, Standard shape)

D: M18 SERIES

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|--|---------------------|---------------------|
| Infrared LED 150 mm Diffuse Mode Sensing Distance: 150mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | M18P-D0150N-CX9C4U2 |
| | | | PNP L.O./D.O. | M18P-D0150P-CX9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18P-D0150A-LX9C3U2 |
| | | Dark-ON (3-wire) | M18P-D0150A-DX9C3U2 | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | Quick Disconnect  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18P-D0150N-CX9Q4UE |
| | | | PNP L.O./D.O. | M18P-D0150P-CX9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18P-D0150A-LX9Q4UM |
| | | Dark-ON (3-wire) | M18P-D0150A-DX9Q4UM | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| 6" Pig tail  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18P-D0150N-CX9P4UE | |
| | | PNP L.O./D.O. | M18P-D0150P-CX9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | M18P-D0150A-LX9P4UM | |
| | Dark-ON (3-wire) | M18P-D0150A-DX9P4UM | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

M18 SERIES




Long Range Diffuse Mode (Brass Housing, Z shape)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|--|---|---|---------------------------|---------------------|---------------------|
| Infrared LED | 2m Cable  | 10-30V DC | NPN L.O./D.O. | M18B-D0150N-CZ9C4U2 | |
| | | | PNP L.O./D.O. | M18B-D0150P-CZ9C4U2 | |
| | | | NPN/PNP L.O./D.O. | | |
| | | 20-250V AC | Light-ON (2-wire) | | |
| | | | Dark-ON (2-wire) | | |
| | | | Light-ON (3-wire) | | |
| | | 12-240V DC/ 24-240V AC | Dark-ON (3-wire) | | |
| | | | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | | |
| | | | | | |
| | Diffuse Mode Sensing Distance: 150mm | Quick Disconnect  150 mm | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-D0150N-CZ9Q4UE |
| | | | | PNP L.O./D.O. | M18B-D0150P-CZ9Q4UE |
| NPN/PNP L.O./D.O. | | | | | |
| 20-250V AC (Micro-style) | | | Light-ON (2-wire) | | |
| | | | Dark-ON (2-wire) | | |
| | | | Light-ON (3-wire) | | |
| 12-240V DC/ 24-240V AC (Micro-style) | | | Dark-ON (3-wire) | | |
| | | | Light-ON (2-wire) | | |
| Dark-ON (2-wire) | | | | | |
| | | | | | |
| Diffuse Mode Sensing Distance: 150mm | | 6" Pig tail  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-D0150N-CZ9P4UE |
| | | | | PNP L.O./D.O. | M18B-D0150P-CZ9P4UE |
| | NPN/PNP L.O./D.O. | | | | |
| | 20-250V AC (Micro-style) | | Light-ON (2-wire) | | |
| | | | Dark-ON (2-wire) | | |
| | | | Light-ON (3-wire) | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | | Dark-ON (3-wire) | | |
| | | | Light-ON (2-wire) | | |
| | Dark-ON (2-wire) | | | | |
| | | | | | |

D : M18 SERIES

M18 SERIES

Long Range Diffuse Mode (Brass Housing, Standard shape)

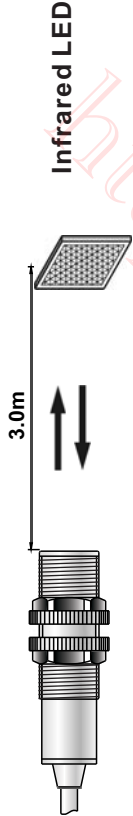



| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|---|---------------------|---------------------|
| Infrared LED 500mm Diffuse Mode Sensing Distance: 500mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | M18B-D0500N-CX9C4U2 |
| | | | PNP L.O./D.O. | M18B-D0500P-CX9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18B-D0500A-LX9C3U2 |
| | | Dark-ON (3-wire) | M18B-D0500A-DX9C3U2 | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | Quick Disconnect  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-D0500N-CX9Q4UE |
| | | | PNP L.O./D.O. | M18B-D0500P-CX9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18B-D0500A-LX9Q4UM |
| | | Dark-ON (3-wire) | M18B-D0500A-DX9Q4UM | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| 6" Pig tail  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-D0500N-CX9P4UE | |
| | | PNP L.O./D.O. | M18B-D0500P-CX9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | M18B-D0500A-LX9P4UM | |
| | Dark-ON (3-wire) | M18B-D0500A-DX9P4UM | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

D : M18 SERIES

M18 SERIES

Retroreflective Mode (Plastic Housing, Standard shape)

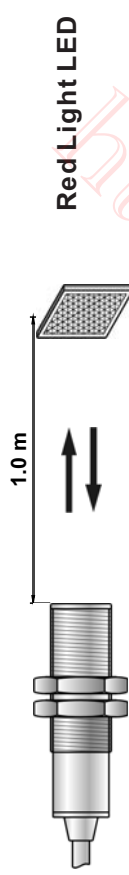



D: M18 SERIES

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|--|---------------------|---------------------|
| <p>Retro-reflective Mode Sensing Distance: 3m (Note)</p>  <p>Infrared LED</p> <p>3.0m</p> <p>CE</p> | <p>2m Cable</p>  | 10-30V DC | NPN L.O./D.O. | M18P-L3000N-CX9C4U2 |
| | | | PNP L.O./D.O. | M18P-L3000P-CX9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18P-L3000A-LX9C3U2 |
| | | Dark-ON (3-wire) | M18P-L3000A-DX9C3U2 | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | <p>Quick Disconnect</p>  <p>CE</p> | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18P-L3000N-CX9Q4UE |
| | | | PNP L.O./D.O. | M18P-L3000P-CX9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18P-L3000A-LX9Q4UM |
| | | Dark-ON (3-wire) | M18P-L3000A-DX9Q4UM | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| <p>6" Pig tail</p>  <p>CE</p> | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18P-L3000N-CX9P4UE | |
| | | PNP L.O./D.O. | M18P-L3000P-CX9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | M18P-L3000A-LX9P4UM | |
| | Dark-ON (3-wire) | M18P-L3000A-DX9P4UM | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

M18 SERIES

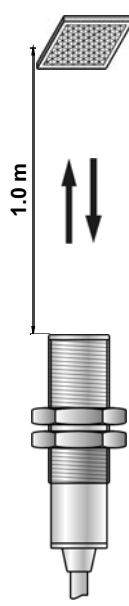



Retroreflective Mode with Polarizing Filter (Brass Housing, Y shape)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|--|------------------------|------------------------|
| <p>Red Light LED</p>  <p>1.0 m</p> <p>Retro-reflective Mode with Polarizing Filter Sensing Distance: 1m (Note)</p> | <p>2m Cable</p>  <p>CE</p> | 10-30V DC | NPN L.O./D.O. | M18B-L1000N-CY6C4U2-PF |
| | | | PNP L.O./D.O. | M18B-L1000P-CY6C4U2-PF |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | | Dark-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | <p>Quick Disconnect</p>  <p>CE</p> | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-L1000N-CY6Q4UE-PF |
| | | | PNP L.O./D.O. | M18B-L1000P-CY6Q4UE-PF |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | |
| | | | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| <p>6" Pig tail</p>  <p>CE</p> | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-L1000N-CY6P4UE-PF | |
| | | PNP L.O./D.O. | M18B-L1000P-CY6P4UE-PF | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | | |
| | | Dark-ON (3-wire) | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

M18 SERIES

Retroreflective Mode with Polarizing Filter (Brass Housing, Standard shape)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|---|------------------------|------------------------|
| <p>Red Light LED</p>  <p>1.0 m</p> <p>Retro-reflective Mode with Polarizing Filter Sensing Distance: 1m (Note)</p> | <p>2m Cable</p>  | 10-30V DC | NPN L.O./D.O. | M18B-L1000N-CX6C4U2-PF |
| | | | PNP L.O./D.O. | M18B-L1000P-CX6C4U2-PF |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | | Dark-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | <p>Quick Disconnect</p>  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-L1000N-CX6Q4UE-PF |
| | | | PNP L.O./D.O. | M18B-L1000P-CX6Q4UE-PF |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | |
| | | | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| <p>6" Pig tail</p>  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-L1000N-CX6P4UE-PF | |
| | | PNP L.O./D.O. | M18B-L1000P-CX6P4UE-PF | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | | |
| | | Dark-ON (3-wire) | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |




Note: Used with RE-6152 (supplied with sensor) reflector.

D: M18 SERIES

M18 SERIES

Retroreflective Mode with Polarizing Filter (Plastic Housing, Standard shape)

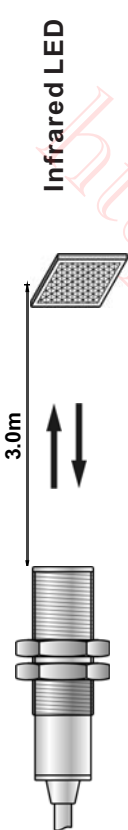



D: M18 SERIES

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|---|------------------------|------------------------|
| Retro-reflective Mode with Polarizing Filter Sensing Distance: 1m (Note) | 2m Cable  CE | 10-30V DC | NPN L.O./D.O. | M18P-L1000N-CX6C4U2-PF |
| | | | PNP L.O./D.O. | M18P-L1000P-CX6C4U2-PF |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | | Dark-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | Quick Disconnect  CE | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18P-L1000N-CX6Q4UE-PF |
| | | | PNP L.O./D.O. | M18P-L1000P-CX6Q4UE-PF |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | | Dark-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| 6" Pig tail  CE | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18P-L1000N-CX6P4UE-PF | |
| | | PNP L.O./D.O. | M18P-L1000P-CX6P4UE-PF | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | | |
| | | Dark-ON (3-wire) | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

M18 SERIES

Retroreflective Mode (Brass Housing, Y shape)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|---|---------------------|---------------------|
| Infrared LED  Retro-reflective Mode Sensing Distance: 3m (Note) | 2m Cable  CE | 10-30V DC | NPN L.O./D.O. | M18B-L3000N-CY9C4U2 |
| | | | PNP L.O./D.O. | M18B-L3000P-CY9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC | Dark-ON (3-wire) | |
| | | | Light-ON (2-wire) | |
| | | Dark-ON (2-wire) | | |
| | Quick Disconnect  CE | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-L3000N-CY9Q4UE |
| | | | PNP L.O./D.O. | M18B-L3000P-CY9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | |
| | | | Light-ON (2-wire) | |
| | | Dark-ON (2-wire) | | |
| 6" Pig tail  CE | 10-30V DC (Euro-style) | NPN L.O./D.O. | M18B-L3000N-CY9P4UE | |
| | | PNP L.O./D.O. | M18B-L3000P-CY9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | | |
| | | Light-ON (2-wire) | | |
| | Dark-ON (2-wire) | | | |

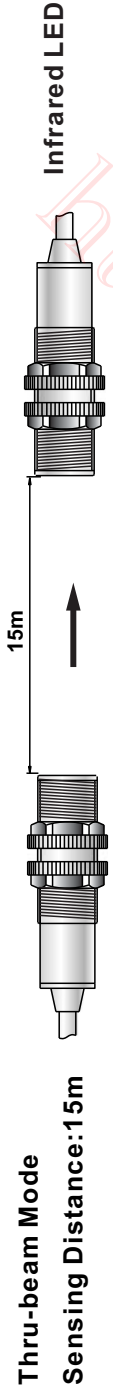



Note: Used with RE-6152 (supplied with sensor) reflector.

D : M18 SERIES

M18 SERIES

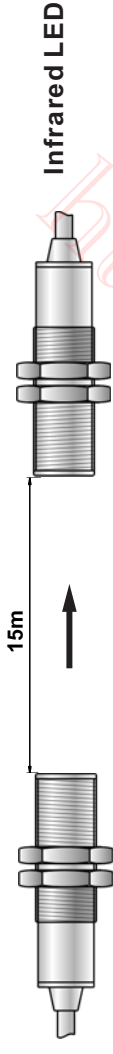



Thru-beam Mode (Plastic Housing, Standard shape)

D: M18 SERIES

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|---|--|-------------------------------------|---------------------|---------------------|
|  <p>Infrared LED</p> <p>15m</p> <p>Thru-beam Mode Sensing Distance: 15m</p> | 2m Cable  | 10-30V DC | Emitter | M18P-T015MD-EX9C3L2 |
| | | | NPN L.O./D.O. | M18P-T015MN-CX9C4U2 |
| | | | PNP L.O./D.O. | M18P-T015MP-CX9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Emitter (2-wire) | M18P-T015MA-EX9C2L2 |
| | | | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18P-T015MA-LX9C3U2 |
| | | | Dark-ON (3-wire) | M18P-T015MA-DX9C3U2 |
| | 12-240V DC/ 24-240V AC | Emitter (2-wire) | | |
| | | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | Quick Disconnect  | 10-30V DC (Euro-style) | Emitter | M18P-T015MD-EX9Q4LE |
| | | | NPN L.O./D.O. | M18P-T015MN-CX9Q4UE |
| | | | PNP L.O./D.O. | M18P-T015MP-CX9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Emitter (2-wire) | M18P-T015MA-EX9Q4LM |
| | | | Light-ON (2-wire) | |
| Dark-ON (2-wire) | | | | |
| Light-ON (3-wire) | | | M18P-T015MA-LX9Q4UM | |
| Dark-ON (3-wire) | | | M18P-T015MA-DX9Q4UM | |
| 12-240V DC/ 24-240V AC (Micro-style) | Emitter (2-wire) | | | |
| | Light-ON (2-wire) | | | |
| | Dark-ON (2-wire) | | | |
| 6" Pig tail  | 10-30V DC (Euro-style) | Emitter | M18P-T015MD-EX9P4LE | |
| | | NPN L.O./D.O. | M18P-T015MN-CX9P4UE | |
| | | PNP L.O./D.O. | M18P-T015MP-CX9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Emitter (2-wire) | M18P-T015MA-EX9P4LM | |
| | | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | M18P-T015MA-LX9P4UM | |
| | | Dark-ON (3-wire) | M18P-T015MA-DX9P4UM | |
| 12-240V DC/ 24-240V AC (Micro-style) | Emitter (2-wire) | | | |
| | Light-ON (2-wire) | | | |
| | Dark-ON (2-wire) | | | |

M18 SERIES

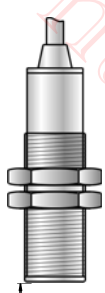
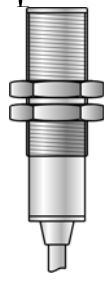
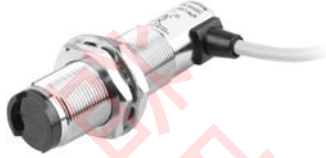


Thru-beam Mode (Brass Housing, Standard shape)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|---|--|---|---------------------|---------------------|
|  <p>Infrared LED</p> <p>15m</p> <p>Thru-beam Mode Sensing Distance: 15m</p> | 2m Cable  | 10-30V DC CE | Emitter | M18B-T015MD-EX9C4U2 |
| | | | NPN L.O./D.O. | M18B-T015MN-CX9C4U2 |
| | | | PNP L.O./D.O. | M18B-T015MP-CX9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Emitter (2-wire) | M18B-T015MA-EX9C2L2 |
| | | | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18B-T015MA-LX9C3U2 |
| | | 12-240V DC/ 24-240V AC | Dark-ON (3-wire) | M18B-T015MA-DX9C3U2 |
| | | | Emitter (2-wire) | |
| | | | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | Quick Disconnect  | 10-30V DC (Euro-style) | Emitter | M18B-T015MD-EX9Q4LE |
| | | | NPN L.O./D.O. | M18B-T015MN-CX9Q4UE |
| | | | PNP L.O./D.O. | M18B-T015MP-CX9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Emitter (2-wire) | M18B-T015MA-EX9Q4LM |
| | | | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18B-T015MA-LX9Q4UM |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | M18B-T015MA-DX9Q4UM |
| | | | Emitter (2-wire) | |
| | | | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| 6" Pig tail  | 10-30V DC (Euro-style) | Emitter | M18B-T015MD-EX9P4LE | |
| | | NPN L.O./D.O. | M18B-T015MN-CX9P4UE | |
| | | PNP L.O./D.O. | M18B-T015MP-CX9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Emitter (2-wire) | M18B-T015MA-EX9P4LM | |
| | | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | M18B-T015MA-LX9P4UM | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | M18B-T015MA-DX9P4UM | |
| | | Emitter (2-wire) | | |
| | | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

D : M18 SERIES

M18 SERIES

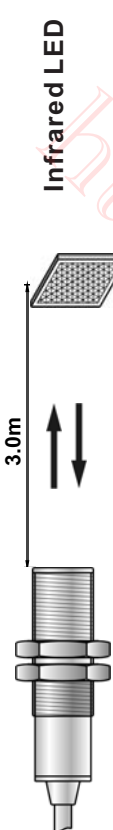



Thru-beam Mode (Brass Housing, Y shape)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|-----------------------------|---------------------|---------------------|
| <p>Infrared LED</p>  <p>15m</p> <p>↑</p>  <p>15m</p> <p>Thru-beam Mode</p> <p>Sensing Distance: 15m</p> | <p>2m Cable</p>  | 10-30V DC | Emitter | M18B-T015MD-EY9C3L2 |
| | | | NPN L.O./D.O. | M18B-T015MN-CY9C4U2 |
| | | | PNP L.O./D.O. | M18B-T015MP-CY9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC | Emitter (2-wire) | |
| | | | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | |
| | | 12-240V DC/ 24-240V AC | Dark-ON (3-wire) | |
| | Emitter (2-wire) | | | |
| | Light-ON (2-wire) | | | |
| | Dark-ON (2-wire) | | | |
| | <p>Quick Disconnect</p>  | 10-30V DC (Euro-style) | Emitter | M18B-T015MD-EY9Q4LE |
| | | | NPN L.O./D.O. | M18B-T015MN-CY9Q4UE |
| | | | PNP L.O./D.O. | M18B-T015MP-CY9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | 20-250V AC (Micro-style) | Emitter (2-wire) | |
| | | | Light-ON (2-wire) | |
| Dark-ON (2-wire) | | | | |
| Light-ON (3-wire) | | | | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Dark-ON (3-wire) | | |
| | Emitter (2-wire) | | | |
| | Light-ON (2-wire) | | | |
| | Dark-ON (2-wire) | | | |
| <p>6" Pig tail</p>  | 10-30V DC (Euro-style) | Emitter | M18B-T015MD-EY9P4LE | |
| | | NPN L.O./D.O. | M18B-T015MN-CY9P4UE | |
| | | PNP L.O./D.O. | M18B-T015MP-CY9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | 20-250V AC (Micro-style) | Emitter (2-wire) | | |
| | | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark-ON (3-wire) | | |
| | | Emitter (2-wire) | | |
| | | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

D : M18 SERIES

M18 SERIES

Retroreflective Mode (Brass Housing, Standard shape)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|--|---|---------------------|---------------------|
| <p>Retro-reflective Mode Sensing Distance: 3m (Note)</p>  <p>Infrared LED</p> <p>3.0m</p> | <p>2m Cable</p>  | <p>10-30V DC</p> | NPN L.O./D.O. | M18B-L3000N-CX9C4U2 |
| | | | PNP L.O./D.O. | M18B-L3000P-CX9C4U2 |
| | | | NPN/PNP L.O./D.O. | |
| | | <p>20-250V AC</p> | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18B-L3000A-LX9C3U2 |
| | | Dark-ON (3-wire) | M18B-L3000A-DX9C3U2 | |
| | | <p>12-240V DC/ 24-240V AC</p> | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | <p>Quick Disconnect</p>  | <p>10-30V DC (Euro-style)</p> | NPN L.O./D.O. | M18B-L3000N-CX9Q4UE |
| | | | PNP L.O./D.O. | M18B-L3000P-CX9Q4UE |
| | | | NPN/PNP L.O./D.O. | |
| | | <p>20-250V AC (Micro-style)</p> | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| | | | Light-ON (3-wire) | M18B-L3000A-LX9Q4UM |
| | | Dark-ON (3-wire) | M18B-L3000A-DX9Q4UM | |
| | | <p>12-240V DC/ 24-240V AC (Micro-style)</p> | Light-ON (2-wire) | |
| | | | Dark-ON (2-wire) | |
| <p>6" Pig tail</p>  | <p>10-30V DC (Euro-style)</p> | NPN L.O./D.O. | M18B-L3000N-CX9P4UE | |
| | | PNP L.O./D.O. | M18B-L3000P-CX9P4UE | |
| | | NPN/PNP L.O./D.O. | | |
| | <p>20-250V AC (Micro-style)</p> | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |
| | | Light-ON (3-wire) | M18B-L3000A-LX9P4UM | |
| | Dark-ON (3-wire) | M18B-L3000A-DX9P4UM | | |
| | <p>12-240V DC/ 24-240V AC (Micro-style)</p> | Light-ON (2-wire) | | |
| | | Dark-ON (2-wire) | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

D : M18 SERIES

M18 SERIES

Specifications (DC)

| Type Model No. | Thru-beam | Retroreflective | | Diffuse Reflective | |
|-----------------------------|---|---------------------|---|-----------------------------------|--------------------|
| | M18x-T015Mx-xxxxxx | M18x-L3000x-xxxxxx | with polarizing filters | | M18x-D0150x-xxxxxx |
| Item | M18x-T015Mx-xxxxxx | M18x-L3000x-xxxxxx | M18x-L1000x-xxxxxx-PF | M18x-D0150x-xxxxxx | M18x-D0500x-xxxxxx |
| Sensing Range | 15m | 3m (Note) | 1m (Note) | 150mm | 500mm |
| Sensing Object | Opaque object of ϕ 8mm or more | 3-way mirror | 3-way mirror | White paper | |
| Hysteresis | — | | | 20% or less of operation distance | |
| Supply Voltage | 10 to 30V DC, Ripple P-P 10% or less | | | | |
| Current Consumption | 30mA or less | | | | |
| Output | <NPN> output type NPN open-collector transistor <ul style="list-style-type: none"> Applied voltage: 30V DC or less Maximum sink current: 200mA Voltage drop: 2.5V or less | | <PNP> output type PNP open-collector transistor <ul style="list-style-type: none"> Applied voltage: 30V DC or less Maximum source current: 200mA Voltage drop: 2.5V or less | | |
| Output Operation | Selectable either Light-ON Dark-ON by the control input wire | | | | |
| Short-circuit Protection | Yes | | | | |
| Reverse Polarity Protection | Yes | | | | |
| Overload Current Protection | Yes | | | | |
| Response Time | 1.5ms | | | | |
| Operation Indicator | Red LED (light up when the output is activated), Thru-beam sensor is provided it on the receiver | | | | |
| Pollution Degree | 3(Industrial environment) | | | | |
| Protection | IP67(IEC) | | | | |
| Ambient Temperature | -25°C to +55°C | | | | |
| Ambient Humidity | 35 to 85% RH, Storage: 35 to 85% RH | | | | |
| EMC | IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact) | | | | |
| Voltage Withstand Ability | IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure | | | | |
| Insulation Resistance | >20M Ω , with 1500V AC megger between all supply terminals connected together and enclosure | | | | |
| Vibration Resistance | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x, y and z directions for 30 min | | | | |
| Shock Resistance | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each | | | | |
| Emitting Element | Infrared LED (modulated) | Red LED (modulated) | Infrared LED (modulated) | | |
| Housing Material | Plastic Housing: PBT; Metal Housing: Nickel-plated Brass | | | | |
| Cable | 2m or 9m 5.8 ϕ (Plastic Housing: 4 ϕ) 4X0.5 (Emitter :3X0.5) PVC. | | | | |
| Pigtail Type | See Pigtail Series or our Cables & Connectors catalogue. | | | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

M18 SERIES

Specifications (AC)

| Item | Type | Thru-beam | Retroreflective | | Diffuse Reflective | |
|-----------------------------|-----------|--|--------------------|-------------------------|-----------------------------------|--------------------|
| | Model No. | | | with polarizing filters | | |
| | | M18x-T015MA-xxxxxx | M18x-L3000A-xxxxxx | M18x-L1000A-xxxxxx-PF | M18x-D0150A-xxxxxx | M18x-D0500A-xxxxxx |
| Sensing Range | | 15m | 3m (Note) | 1m (Note) | 150mm | 500mm |
| Sensing Object | | Opaque object of 8mm or more | 3-way mirror | 3-way mirror | White paper | |
| Hysteresis | | — | | | 20% or less of operation distance | |
| Supply Voltage | | 20 to 250V AC | | | | |
| Current Consumption | | Emitter: 30mA or less Receiver: 5mA or less | 5mA or less | | | |
| Output | | AC non-contact (thyristor output) <ul style="list-style-type: none"> • Applied voltage: 20 to 250V AC • Max. Load current: 300mA • Voltage drop: 10V AC or less | | | | |
| Output Operation | | Selectable either Light-ON Dark-ON by type number | | | | |
| Overload Current Protection | | Yes | | | | |
| Response Time | | 15ms | | | | |
| Operation Indicator | | Red LED (light up when the output is activated), Thru-beam sensor is provided it on the receiver | | | | |
| Pollution Degree | | 3(Industrial environment) | | | | |
| Protection | | IP67(IEC) | | | | |
| Ambient Temperature | | -25°C to +55°C | | | | |
| Ambient Humidity | | 35 to 85% RH, Storage: 35 to 85% RH | | | | |
| EMC | | IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact) | | | | |
| Voltage Withstand Ability | | IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure | | | | |
| Insulation Resistance | | >20M Ω , with 1500V AC megger between all supply terminals connected together and enclosure | | | | |
| Vibration Resistance | | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x, y and z directions for 30 min | | | | |
| Shock Resistance | | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each | | | | |
| Emitting Element | | Infrared LED (modulated) | | Red LED (modulated) | Infrared LED (modulated) | |
| Material | | Plastic Housing: PBT; Metal Housing: Nickel-plated Brass | | | | |
| Cable | | 2m or 9m 5.8 ϕ (Plastic Housing: 4 ϕ) 4X0.5 (Emitter :3X0.5) PVC. | | | | |
| Pig tail Type | | See Pigtail Series or our Cables & Connectors catalogue. | | | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

M18 SERIES






Specifications (AC/DC)

| Item | Type | Retroreflective | | Diffuse Reflective | | |
|-----------------------------|-----------|--|--------------------|-------------------------|-----------------------------------|--------------------|
| | Model No. | Thru-beam | | with polarizing filters | | |
| | | M18x-T015MC-xxxxxx | M18x-L3000C-xxxxxx | M18x-L1000C-xxxxxx-PF | M18x-D0150C-xxxxxx | M18x-D0500C-xxxxxx |
| Sensing Range | | 15m | 3m (Note) | 1m (Note) | 150mm | 500mm |
| Sensing Object | | Opaque object of 8mm or more | 3-way mirror | 3-way mirror | White paper | |
| Hysteresis | | — | | | 20% or less of operation distance | |
| Supply Voltage | | 12-240V DC / 24-240V AC | | | | |
| Current Consumption | | Emitter: 30mA or less Receiver: 5mA or less | 30mA or less | | | |
| Output | | AC/DC non-contact (thyristor output) • Applied voltage: 12 to 240V DC or 24 to 240V AC • Max. Load current: 300mA • Voltage drop: 10V at AC or 2.5V at DC or less | | | | |
| Output Operation | | Selectable either Light-ON Dark-ON by type number | | | | |
| Overload Current Protection | | Yes | | | | |
| Response Time | | 15ms | | | | |
| Operation Indicator | | Red LED (light up when the output is activated), Thru-beam sensor is provided on the receiver | | | | |
| Pollution Degree | | 3(Industrial environment) | | | | |
| Protection | | IP67(IEC) | | | | |
| Ambient Temperature | | -25°C to +55°C | | | | |
| Ambient Humidity | | 35 to 85% RH, Storage: 35 to 85% RH | | | | |
| EMC | | IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact) | | | | |
| Voltage Withstand Ability | | IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure | | | | |
| Insulation Resistance | | >20M ^Ω , with 1500V AC megger between all supply terminals connected together and enclosure | | | | |
| Vibration Resistance | | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x, y and z directions for 30 min | | | | |
| Shock Resistance | | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each | | | | |
| Emitting Element | | Infrared LED (modulated) | | Red LED (modulated) | Infrared LED (modulated) | |
| Material | | Plastic Housing: PBT; Metal Housing: Nickel-plated Brass | | | | |
| Cable | | 2m or 9m 5.8φ (Plastic Housing: 4φ) 4X0.5 (Emitter :3X0.5) PVC. | | | | |
| Pigtail Type | | See Pigtail Series or our Cables & Connectors catalogue. | | | | |

Note: Used with RE-6152 (supplied with sensor) reflector.

M30 SERIES

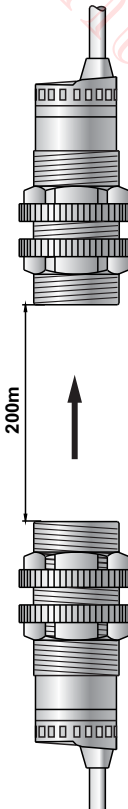




Thru-beam Mode (Plastic Housing)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|--|---------------------------|------------------------------|----------------------------|
| Infrared: 950 nm  Thru-beam Mode Sensing Distance: 200m | 2m Cable  | 10-30V DC | Emitter | <u>M30P-T200MD-EX9C2L2</u> |
| | | | NPN L.O./D.O. | <u>M30P-T200MN-CX9C4U2</u> |
| | | | PNP L.O./D.O. | <u>M30P-T200MP-CX9C4U2</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30P-T200MD-CX9C4U2</u> |
| | | 20-250V AC | Emitter (2-wire) | <u>M30P-T200MA-EX9C2L2</u> |
| | | | Light Operate (2-wire) | <u>M30P-T200MA-LX9C2U2</u> |
| | | | Dark Operate (2-wire) | <u>M30P-T200MA-DX9C2U2</u> |
| | | | Light Operate (3-wire) | <u>M30P-T200MA-LX9C3U2</u> |
| | | 12-240V DC/ 24-240V AC | Dark Operate (3-wire) | <u>M30P-T200MA-DX9C3U2</u> |
| | | | Emitter (2-wire) | <u>M30P-T200MC-EX9C2L2</u> |
| | | | Light Operate (2-wire) | <u>M30P-T200MC-LX9C2U2</u> |
| | | | Dark Operate (2-wire) | <u>M30P-T200MC-DX9C2U2</u> |
| | 9m Cable  | 10-30V DC | Emitter | <u>M30P-T200MD-EX9C2L9</u> |
| | | | NPN L.O./D.O. | <u>M30P-T200MN-CX9C4U9</u> |
| | | | PNP L.O./D.O. | <u>M30P-T200MP-CX9C4U9</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30P-T200MD-CX9C4U9</u> |
| | | 20-250V AC | Emitter (2-wire) | <u>M30P-T200MA-EX9C2L9</u> |
| | | | Light Operate (2-wire) | <u>M30P-T200MA-LX9C2U9</u> |
| | | | Dark Operate (2-wire) | <u>M30P-T200MA-DX9C2U9</u> |
| | | | Light Operate (3-wire) | <u>M30P-T200MA-LX9C3U9</u> |
| | | 12-240V DC/ 24-240V AC | Dark Operate (3-wire) | <u>M30P-T200MA-DX9C3U9</u> |
| | | | Emitter (2-wire) | <u>M30P-T200MC-EX9C2L9</u> |
| | | | Light Operate (2-wire) | <u>M30P-T200MC-LX9C2U9</u> |
| | | | Dark Operate (2-wire) | <u>M30P-T200MC-DX9C2U9</u> |
| Quick Disconnect  | 10-30V DC (Euro-style) | Emitter | <u>M30P-T200MD-EX9Q4LE</u> | |
| | | NPN L.O./D.O. | <u>M30P-T200MN-CX9Q4UE</u> | |
| | | PNP L.O./D.O. | <u>M30P-T200MP-CX9Q4UE</u> | |
| | | NPN/PNP L.O./D.O. | <u>M30P-T200MD-CX9Q4UE</u> | |
| | 20-250V AC (Micro-style) | Emitter (2-wire) | <u>M30P-T200MA-EX9Q4LM</u> | |
| | | Light Operate (2-wire) | <u>M30P-T200MA-LX9Q4/2UM</u> | |
| | | Dark Operate (2-wire) | <u>M30P-T200MA-DX9Q4/2UM</u> | |
| | | Light Operate (3-wire) | <u>M30P-T200MA-LX9Q4UM</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark Operate (3-wire) | <u>M30P-T200MA-DX9Q4UM</u> | |
| | | Emitter (2-wire) | <u>M30P-T200MC-EX9Q4LM</u> | |
| | | Light Operate (2-wire) | <u>M30P-T200MC-LX9Q4UM</u> | |
| | | Dark Operate (2-wire) | <u>M30P-T200MC-DX9Q4UM</u> | |
| 6" Pigtail  | 10-30V DC (Euro-style) | Emitter | <u>M30P-T200MD-EX9P4LE</u> | |
| | | NPN L.O./D.O. | <u>M30P-T200MN-CX9P4UE</u> | |
| | | PNP L.O./D.O. | <u>M30P-T200MP-CX9P4UE</u> | |
| | | NPN/PNP L.O./D.O. | <u>M30P-T200MD-CX9P4UE</u> | |
| | 20-250V AC (Micro-style) | Emitter (2-wire) | <u>M30P-T200MA-EX9P4LM</u> | |
| | | Light Operate (2-wire) | <u>M30P-T200MA-LX9P4/2UM</u> | |
| | | Dark Operate (2-wire) | <u>M30P-T200MA-DX9P4/2UM</u> | |
| | | Light Operate (3-wire) | <u>M30P-T200MA-LX9P4UM</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark Operate (3-wire) | <u>M30P-T200MA-DX9P4UM</u> | |
| | | Emitter (2-wire) | <u>M30P-T200MC-EX9P4LM</u> | |
| | | Light Operate (2-wire) | <u>M30P-T200MC-LX9P4UM</u> | |
| | | Dark Operate (2-wire) | <u>M30P-T200MC-DX9P4UM</u> | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M30 SERIES

Thru-beam Mode (Brass Housing)

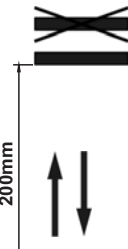




| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|--|---------------------------|-----------------------------|----------------------------|
| Infrared: 950 nm  Thru-beam Mode Sensing Distance: 200m | 2m Cable  | 10-30V DC | Emitter | <u>M30B-T200MD-EX9C2L2</u> |
| | | | NPN L.O./D.O. | <u>M30B-T200MN-CX9C4U2</u> |
| | | | PNP L.O./D.O. | <u>M30B-T200MP-CX9C4U2</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30B-T200MD-CX9C4U2</u> |
| | | 20-250V AC | Emitter (2-wire) | <u>M30B-T200MA-EX9C2L2</u> |
| | | | Light Operate (2-wire) | <u>M30B-T200MA-LX9C2U2</u> |
| | | | Dark Operate (2-wire) | <u>M30B-T200MA-DX9C2U2</u> |
| | | | Light Operate (3-wire) | <u>M30B-T200MA-LX9C3U2</u> |
| | | 12-240V DC/ 24-240V AC | Dark Operate (3-wire) | <u>M30B-T200MA-DX9C3U2</u> |
| | | | Emitter (2-wire) | <u>M30B-T200MC-EX9C2L2</u> |
| | | | Light Operate (2-wire) | <u>M30B-T200MC-LX9C2U2</u> |
| | | | Dark Operate (2-wire) | <u>M30B-T200MC-DX9C2U2</u> |
| | 9m Cable  | 10-30V DC | Emitter | <u>M30B-T200MD-EX9C2L9</u> |
| | | | NPN L.O./D.O. | <u>M30B-T200MN-CX9C4U9</u> |
| | | | PNP L.O./D.O. | <u>M30B-T200MP-CX9C4U9</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30B-T200MD-CX9C4U9</u> |
| | | 20-250V AC | Emitter (2-wire) | <u>M30B-T200MA-EX9C2L9</u> |
| | | | Light Operate (2-wire) | <u>M30B-T200MA-LX9C2U9</u> |
| | | | Dark Operate (2-wire) | <u>M30B-T200MA-DX9C2U9</u> |
| | | | Light Operate (3-wire) | <u>M30B-T200MA-LX9C3U9</u> |
| | | 12-240V DC/ 24-240V AC | Dark Operate (3-wire) | <u>M30B-T200MA-DX9C3U9</u> |
| | | | Emitter (2-wire) | <u>M30B-T200MC-EX9C2L9</u> |
| | | | Light Operate (2-wire) | <u>M30B-T200MC-LX9C2U9</u> |
| | | | Dark Operate (2-wire) | <u>M30B-T200MC-DX9C2U9</u> |
| Quick Disconnect  | 10-30V DC (Euro-style) | Emitter | <u>M30B-T200MD-EX9Q4LE</u> | |
| | | NPN L.O./D.O. | <u>M30B-T200MN-CX9Q4UE</u> | |
| | | PNP L.O./D.O. | <u>M30B-T200MP-CX9Q4UE</u> | |
| | | NPN/PNP L.O./D.O. | <u>M30B-T200MD-CX9Q4UE</u> | |
| | 20-250V AC (Micro-style) | Emitter (2-wire) | <u>M30B-T200MA-EX9Q4LM</u> | |
| | | Light Operate (2-wire) | <u>M30B-T200MA-LX9Q42UM</u> | |
| | | Dark Operate (2-wire) | <u>M30B-T200MA-DX9Q42UM</u> | |
| | | Light Operate (3-wire) | <u>M30B-T200MA-LX9Q4UM</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark Operate (3-wire) | <u>M30B-T200MA-DX9Q4UM</u> | |
| | | Emitter (2-wire) | <u>M30B-T200MC-EX9Q4LM</u> | |
| | | Light Operate (2-wire) | <u>M30B-T200MC-LX9Q4UM</u> | |
| | | Dark Operate (2-wire) | <u>M30B-T200MC-DX9Q4UM</u> | |
| 6" Pigtail  | 10-30V DC (Euro-style) | Emitter | <u>M30B-T200MD-EX9P4LE</u> | |
| | | NPN L.O./D.O. | <u>M30B-T200MN-CX9P4UE</u> | |
| | | PNP L.O./D.O. | <u>M30B-T200MP-CX9P4UE</u> | |
| | | NPN/PNP L.O./D.O. | <u>M30B-T200MD-CX9P4UE</u> | |
| | 20-250V AC (Micro-style) | Emitter (2-wire) | <u>M30B-T200MA-EX9P4LM</u> | |
| | | Light Operate (2-wire) | <u>M30B-T200MA-LX9P42UM</u> | |
| | | Dark Operate (2-wire) | <u>M30B-T200MA-DX9P42UM</u> | |
| | | Light Operate (3-wire) | <u>M30B-T200MA-LX9P4UM</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark Operate (3-wire) | <u>M30B-T200MA-DX9P4UM</u> | |
| | | Emitter (2-wire) | <u>M30B-T200MC-EX9P4LM</u> | |
| | | Light Operate (2-wire) | <u>M30B-T200MC-LX9P4UM</u> | |
| | | Dark Operate (2-wire) | <u>M30B-T200MC-DX9P4UM</u> | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

I : M30 SERIES

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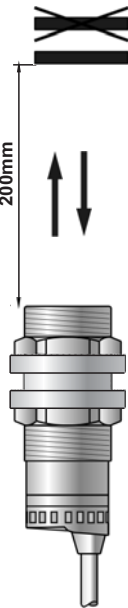

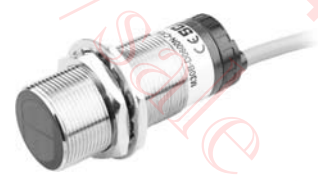


Diffuse Mode with Background Suppression (Sn=200mm, Plastic Housing)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|-----------------------------|---------------------------------|---------------------------------|
| Infrared: 880 nm  200mm Diffuse Mode with Background Suppression Sensing Distance: 200mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30P-D0200N-CX9C4U2-BS</u> |
| | | | PNP L.O./D.O. | <u>M30P-D0200P-CX9C4U2-BS</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30P-D0200D-CX9C4U2-BS</u> |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30P-D0200A-LX9C2U2-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30P-D0200A-DX9C2U2-BS</u> |
| | | | Light Operate (3-wire) | <u>M30P-D0200A-LX9C3U2-BS</u> |
| | | | Dark Operate (3-wire) | <u>M30P-D0200A-DX9C3U2-BS</u> |
| | | 12-240V DC/ 24-240V AC | Light Operate (2-wire) | <u>M30P-D0200C-LX9C2U2-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30P-D0200C-DX9C2U2-BS</u> |
| | 9m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30P-D0200N-CX9C4U9-BS</u> |
| | | | PNP L.O./D.O. | <u>M30P-D0200P-CX9C4U9-BS</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30P-D0200D-CX9C4U9-BS</u> |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30P-D0200A-LX9C2U9-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30P-D0200A-DX9C2U9-BS</u> |
| | | | Light Operate (3-wire) | <u>M30P-D0200A-LX9C3U9-BS</u> |
| | | | Dark Operate (3-wire) | <u>M30P-D0200A-DX9C3U9-BS</u> |
| | | 12-240V DC/ 24-240V AC | Light Operate (2-wire) | <u>M30P-D0200C-LX9C2U9-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30P-D0200C-DX9C2U9-BS</u> |
| | Quick Disconnect  | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-D0200N-CX9Q4UE-BS</u> |
| | | | PNP L.O./D.O. | <u>M30P-D0200P-CX9Q4UE-BS</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30P-D0200D-CX9Q4UE-BS</u> |
| | | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-D0200A-LX9Q4/2UM-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30P-D0200A-DX9Q4/2UM-BS</u> |
| | | | Light Operate (3-wire) | <u>M30P-D0200A-LX9Q4UM-BS</u> |
| Dark Operate (3-wire) | | | <u>M30P-D0200A-DX9Q4UM-BS</u> | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Light Operate (2-wire) | <u>M30P-D0200C-LX9Q4UM-BS</u> | |
| | | Dark Operate (2-wire) | <u>M30P-D0200C-DX9Q4UM-BS</u> | |
| 6" Pigtail  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-D0200N-CX9P4UE-BS</u> |
| | | | PNP L.O./D.O. | <u>M30P-D0200P-CX9P4UE-BS</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30P-D0200D-CX9P4UE-BS</u> |
| | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-D0200A-LX9P4/2UM-BS</u> | |
| | | Dark Operate (2-wire) | <u>M30P-D0200A-DX9P4/2UM-BS</u> | |
| | | Light Operate (3-wire) | <u>M30P-D0200A-LX9P4UM-BS</u> | |
| | | Dark Operate (3-wire) | <u>M30P-D0200A-DX9P4UM-BS</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-D0200C-LX9P4UM-BS</u> | |
| | | Dark Operate (2-wire) | <u>M30P-D0200C-DX9P4UM-BS</u> | |

Note:
 Coming Soon : Part numbers with underline
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M30 SERIES

Diffuse Mode with Background Suppression (Sn=200mm, Brass Housing)

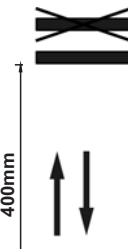
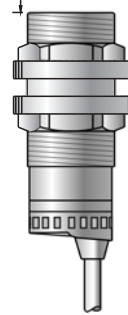




| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|---|---|-----------------------------|---------------------------------|---------------------------------|
| Infrared: 880 nm  Diffuse Mode with Background Suppression Sensing Distance: 200mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30B-D0200N-CX9C4U2-BS</u> |
| | | | PNP L.O./D.O. | <u>M30B-D0200P-CX9C4U2-BS</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30B-D0200D-CX9C4U2-BS</u> |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30B-D0200A-LX9C2U2-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30B-D0200A-DX9C2U2-BS</u> |
| | | | Light Operate (3-wire) | <u>M30B-D0200A-LX9C3U2-BS</u> |
| | | 12-240V DC/ 24-240V AC | Dark Operate (3-wire) | <u>M30B-D0200A-DX9C3U2-BS</u> |
| | | | Light Operate (2-wire) | <u>M30B-D0200C-LX9C2U2-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30B-D0200C-DX9C2U2-BS</u> |
| | 9m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30B-D0200N-CX9C4U9-BS</u> |
| | | | PNP L.O./D.O. | <u>M30B-D0200P-CX9C4U9-BS</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30B-D0200D-CX9C4U9-BS</u> |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30B-D0200A-LX9C2U9-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30B-D0200A-DX9C2U9-BS</u> |
| | | | Light Operate (3-wire) | <u>M30B-D0200A-LX9C3U9-BS</u> |
| | | 12-240V DC/ 24-240V AC | Dark Operate (3-wire) | <u>M30B-D0200A-DX9C3U9-BS</u> |
| | | | Light Operate (2-wire) | <u>M30B-D0200C-LX9C2U9-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30B-D0200C-DX9C2U9-BS</u> |
| | Quick Disconnect  | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-D0200N-CX9Q4UE-BS</u> |
| | | | PNP L.O./D.O. | <u>M30B-D0200P-CX9Q4UE-BS</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30B-D0200D-CX9Q4UE-BS</u> |
| | | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30B-D0200A-LX9Q4/2UM-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30B-D0200A-DX9Q4/2UM-BS</u> |
| | | | Light Operate (3-wire) | <u>M30B-D0200A-LX9Q4UM-BS</u> |
| 12-240V DC/ 24-240V AC (Micro-style) | | Dark Operate (3-wire) | <u>M30B-D0200A-DX9Q4UM-BS</u> | |
| | | Light Operate (2-wire) | <u>M30B-D0200C-LX9Q4UM-BS</u> | |
| | | Dark Operate (2-wire) | <u>M30B-D0200C-DX9Q4UM-BS</u> | |
| 6" Pigtail  | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-D0200N-CX9P4UE-BS</u> | |
| | | PNP L.O./D.O. | <u>M30B-D0200P-CX9P4UE-BS</u> | |
| | | NPN/PNP L.O./D.O. | <u>M30B-D0200D-CX9P4UE-BS</u> | |
| | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30B-D0200A-LX9P4/2UM-BS</u> | |
| | | Dark Operate (2-wire) | <u>M30B-D0200A-DX9P4/2UM-BS</u> | |
| | | Light Operate (3-wire) | <u>M30B-D0200A-LX9P4UM-BS</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark Operate (3-wire) | <u>M30B-D0200A-DX9P4UM-BS</u> | |
| | | Light Operate (2-wire) | <u>M30B-D0200C-LX9P4UM-BS</u> | |
| | | Dark Operate (2-wire) | <u>M30B-D0200C-DX9P4UM-BS</u> | |

I: M30 SERIES

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M30 SERIES

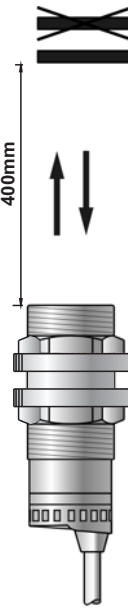

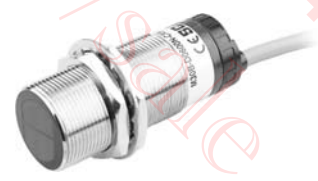


Diffuse Mode with Background Suppression (Sn=400mm, Plastic Housing)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|---|---|--|---------------------------------|---------------------------------|-------------------------------|
| Infrared: 880 nm  400mm  Diffuse Mode with Background Suppression Sensing Distance: 400mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30P-D0400N-CX9C4U2-BS</u> | |
| | | | PNP L.O./D.O. | <u>M30P-D0400P-CX9C4U2-BS</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30P-D0400D-CX9C4U2-BS</u> | |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30P-D0400A-LX9G2U2-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30P-D0400A-DX9G2U2-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30P-D0400A-LX9G3U2-BS</u> | |
| | | | Dark Operate (3-wire) | <u>M30P-D0400A-DX9G3U2-BS</u> | |
| | | 12-240V DC/ 24-240V AC | Light Operate (2-wire) | <u>M30P-D0400G-LX9G2U2-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30P-D0400G-DX9G2U2-BS</u> | |
| | | 9m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30P-D0400N-CX9C4U9-BS</u> |
| | | | | PNP L.O./D.O. | <u>M30P-D0400P-CX9C4U9-BS</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30P-D0400D-CX9C4U9-BS</u> |
| | 20-250V AC | | Light Operate (2-wire) | <u>M30P-D0400A-LX9C2U9-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30P-D0400A-DX9C2U9-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30P-D0400A-LX9C3U9-BS</u> | |
| | | | Dark Operate (3-wire) | <u>M30P-D0400A-DX9C3U9-BS</u> | |
| | 12-240V DC/ 24-240V AC | | Light Operate (2-wire) | <u>M30P-D0400G-LX9C2U9-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30P-D0400G-DX9C2U9-BS</u> | |
| | Quick Disconnect  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-D0400N-CX9Q4UE-BS</u> |
| | | | | PNP L.O./D.O. | <u>M30P-D0400P-CX9Q4UE-BS</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30P-D0400D-CX9Q4UE-BS</u> |
| | | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-D0400A-LX9Q4/2UM-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30P-D0400A-DX9Q4/2UM-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30P-D0400A-LX9Q4UM-BS</u> | |
| Dark Operate (3-wire) | | | <u>M30P-D0400A-DX9Q4UM-BS</u> | | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Light Operate (2-wire) | <u>M30P-D0400G-LX9Q4UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30P-D0400G-DX9Q4UM-BS</u> | | |
| 6" Pigtail  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-D0400N-CX9P4UE-BS</u> | |
| | | | PNP L.O./D.O. | <u>M30P-D0400P-CX9P4UE-BS</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30P-D0400D-CX9P4UE-BS</u> | |
| | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-D0400A-LX9P4/2UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30P-D0400A-DX9P4/2UM-BS</u> | | |
| | | Light Operate (3-wire) | <u>M30P-D0400A-LX9P4UM-BS</u> | | |
| | | Dark Operate (3-wire) | <u>M30P-D0400A-DX9P4UM-BS</u> | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-D0400G-LX9P4UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30P-D0400G-DX9P4UM-BS</u> | | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M30 SERIES

Diffuse Mode with Background Suppression (Sn=400mm, Brass Housing)



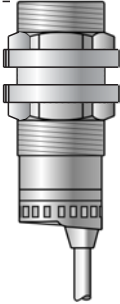




| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|---|---|--|---------------------------------|---------------------------------|-------------------------------|
| Infrared: 880 nm  Diffuse Mode with Background Suppression Sensing Distance: 400mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30B-D0400N-CX9C4U2-BS</u> | |
| | | | PNP L.O./D.O. | <u>M30B-D0400P-CX9C4U2-BS</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30B-D0400D-CX9C4U2-BS</u> | |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30B-D0400A-LX9C2U2-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0400A-DX9C2U2-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30B-D0400A-LX9C3U2-BS</u> | |
| | | | Dark Operate (3-wire) | <u>M30B-D0400A-DX9C3U2-BS</u> | |
| | | 12-240V DC/ 24-240V AC | Light Operate (2-wire) | <u>M30B-D0400C-LX9C2U2-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0400C-DX9C2U2-BS</u> | |
| | | 9m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30B-D0400N-CX9C4U9-BS</u> |
| | | | | PNP L.O./D.O. | <u>M30B-D0400P-CX9C4U9-BS</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30B-D0400D-CX9C4U9-BS</u> |
| | 20-250V AC | | Light Operate (2-wire) | <u>M30B-D0400A-LX9C2U9-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0400A-DX9C2U9-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30B-D0400A-LX9C3U9-BS</u> | |
| | | | Dark Operate (3-wire) | <u>M30B-D0400A-DX9C3U9-BS</u> | |
| | 12-240V DC/ 24-240V AC | | Light Operate (2-wire) | <u>M30B-D0400C-LX9C2U9-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0400C-DX9C2U9-BS</u> | |
| | Quick Disconnect  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-D0400N-CX9Q4UE-BS</u> |
| | | | | PNP L.O./D.O. | <u>M30B-D0400P-CX9Q4UE-BS</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30B-D0400D-CX9Q4UE-BS</u> |
| | | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30B-D0400A-LX9Q4/2UM-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0400A-DX9Q4/2UM-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30B-D0400A-LX9Q4UM-BS</u> | |
| Dark Operate (3-wire) | | | <u>M30B-D0400A-DX9Q4UM-BS</u> | | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Light Operate (2-wire) | <u>M30B-D0400C-LX9Q4UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30B-D0400C-DX9Q4UM-BS</u> | | |
| 6" Pigtail  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-D0400N-CX9P4UE-BS</u> | |
| | | | PNP L.O./D.O. | <u>M30B-D0400P-CX9P4UE-BS</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30B-D0400D-CX9P4UE-BS</u> | |
| | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30B-D0400A-LX9P4/2UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30B-D0400A-DX9P4/2UM-BS</u> | | |
| | | Light Operate (3-wire) | <u>M30B-D0400A-LX9P4UM-BS</u> | | |
| | | Dark Operate (3-wire) | <u>M30B-D0400A-DX9P4UM-BS</u> | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light Operate (2-wire) | <u>M30B-D0400C-LX9P4UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30B-D0400C-DX9P4UM-BS</u> | | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

I: M30 SERIES

M30 SERIES

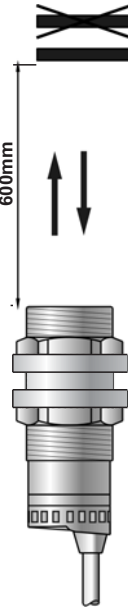

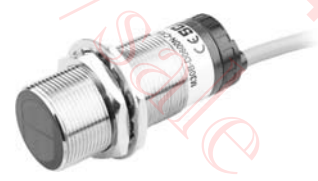


Diffuse Mode with Background Suppression (Sn=600mm, Plastic Housing)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|--|---------------------------------|---------------------------------|
| Infrared: 880 nm  600mm   Diffuse Mode with Background Suppression Sensing Distance: 600mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30P-D0600N-CX9C4U2-BS</u> |
| | | | PNP L.O./D.O. | <u>M30P-D0600P-CX9C4U2-BS</u> |
| | | | NPN/PNP L.O./D.O. | <u>M30P-D0600D-CX9C4U2-BS</u> |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30P-D0600A-LX9C2U2-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30P-D0600A-DX9C2U2-BS</u> |
| | | | Light Operate (3-wire) | <u>M30P-D0600A-LX9C3U2-BS</u> |
| | | 12-240V DC/ 24-240V AC | Dark Operate (3-wire) | <u>M30P-D0600A-DX9C3U2-BS</u> |
| | | | Light Operate (2-wire) | <u>M30P-D0600C-LX9C2U2-BS</u> |
| | | 9m Cable  | 10-30V DC | NPN L.O./D.O. |
| | PNP L.O./D.O. | | | <u>M30P-D0600P-CX9C4U9-BS</u> |
| | NPN/PNP L.O./D.O. | | | <u>M30P-D0600D-CX9C4U9-BS</u> |
| | 20-250V AC | | Light Operate (2-wire) | <u>M30P-D0600A-LX9C2U9-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30P-D0600A-DX9C2U9-BS</u> |
| | | | Light Operate (3-wire) | <u>M30P-D0600A-LX9C3U9-BS</u> |
| | 12-240V DC/ 24-240V AC | | Dark Operate (3-wire) | <u>M30P-D0600A-DX9C3U9-BS</u> |
| | | | Light Operate (2-wire) | <u>M30P-D0600C-LX9C2U9-BS</u> |
| | Quick Disconnect  | | 10-30V DC (Euro-style) | NPN L.O./D.O. |
| | | PNP L.O./D.O. | | <u>M30P-D0600P-CX9Q4UE-BS</u> |
| | | NPN/PNP L.O./D.O. | | <u>M30P-D0600D-CX9Q4UE-BS</u> |
| | | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-D0600A-LX9Q4/2UM-BS</u> |
| | | | Dark Operate (2-wire) | <u>M30P-D0600A-DX9Q4/2UM-BS</u> |
| | | | Light Operate (3-wire) | <u>M30P-D0600A-LX9Q4UM-BS</u> |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Dark Operate (3-wire) | <u>M30P-D0600A-DX9Q4UM-BS</u> |
| | | | Light Operate (2-wire) | <u>M30P-D0600C-LX9Q4UM-BS</u> |
| 6" Pigtail  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-D0600N-CX9P4UE-BS</u> |
| | PNP L.O./D.O. | | <u>M30P-D0600P-CX9P4UE-BS</u> | |
| | NPN/PNP L.O./D.O. | | <u>M30P-D0600D-CX9P4UE-BS</u> | |
| | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-D0600A-LX9P4/2UM-BS</u> | |
| | | Dark Operate (2-wire) | <u>M30P-D0600A-DX9P4/2UM-BS</u> | |
| | | Light Operate (3-wire) | <u>M30P-D0600A-LX9P4UM-BS</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark Operate (3-wire) | <u>M30P-D0600A-DX9P4UM-BS</u> | |
| | | Light Operate (2-wire) | <u>M30P-D0600C-LX9P4UM-BS</u> | |
| | Dark Operate (2-wire) | <u>M30P-D0600C-DX9P4UM-BS</u> | | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M30 SERIES

Diffuse Mode with Background Suppression (Sn=600mm, Brass Housing)

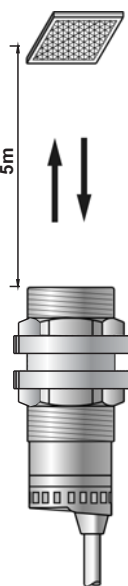




| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|--|---|--|---------------------------------|---------------------------------|-------------------------------|
| Infrared: 880 nm  600mm Diffuse Mode with Background Suppression Sensing Distance: 600mm | 2m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30B-D0600N-CX9C4U2-BS</u> | |
| | | | PNP L.O./D.O. | <u>M30B-D0600P-CX9C4U2-BS</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30B-D0600D-CX9C4U2-BS</u> | |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30B-D0600A-LX9C2U2-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0600A-DX9C2U2-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30B-D0600A-LX9C3U2-BS</u> | |
| | | 12-240V DC/ 24-240V AC | Dark Operate (3-wire) | <u>M30B-D0600A-DX9C3U2-BS</u> | |
| | | | Light Operate (2-wire) | <u>M30B-D0600C-LX9C2U2-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0600C-DX9C2U2-BS</u> | |
| | | 9m Cable  | 10-30V DC | NPN L.O./D.O. | <u>M30B-D0600N-CX9C4U9-BS</u> |
| | | | | PNP L.O./D.O. | <u>M30B-D0600P-CX9C4U9-BS</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30B-D0600D-CX9C4U9-BS</u> |
| | 20-250V AC | | Light Operate (2-wire) | <u>M30B-D0600A-LX9C2U9-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0600A-DX9C2U9-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30B-D0600A-LX9C3U9-BS</u> | |
| | 12-240V DC/ 24-240V AC | | Dark Operate (3-wire) | <u>M30B-D0600A-DX9C3U9-BS</u> | |
| | | | Light Operate (2-wire) | <u>M30B-D0600C-LX9C2U9-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0600C-DX9C2U9-BS</u> | |
| | Quick Disconnect  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-D0600N-CX9Q4UE-BS</u> |
| | | | | PNP L.O./D.O. | <u>M30B-D0600P-CX9Q4UE-BS</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30B-D0600D-CX9Q4UE-BS</u> |
| | | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30B-D0600A-LX9Q4/2UM-BS</u> | |
| | | | Dark Operate (2-wire) | <u>M30B-D0600A-DX9Q4/2UM-BS</u> | |
| | | | Light Operate (3-wire) | <u>M30B-D0600A-LX9Q4UM-BS</u> | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Dark Operate (3-wire) | <u>M30B-D0600A-DX9Q4UM-BS</u> | | |
| | | Light Operate (2-wire) | <u>M30B-D0600C-LX9Q4UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30B-D0600C-DX9Q4UM-BS</u> | | |
| 6" Pigtail  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-D0600N-CX9P4UE-BS</u> | |
| | | | PNP L.O./D.O. | <u>M30B-D0600P-CX9P4UE-BS</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30B-D0600D-CX9P4UE-BS</u> | |
| | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30B-D0600A-LX9P4/2UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30B-D0600A-DX9P4/2UM-BS</u> | | |
| | | Light Operate (3-wire) | <u>M30B-D0600A-LX9P4UM-BS</u> | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Dark Operate (3-wire) | <u>M30B-D0600A-DX9P4UM-BS</u> | | |
| | | Light Operate (2-wire) | <u>M30B-D0600C-LX9P4UM-BS</u> | | |
| | | Dark Operate (2-wire) | <u>M30B-D0600C-DX9P4UM-BS</u> | | |

Note:
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

I: M30 SERIES

M30 SERIES


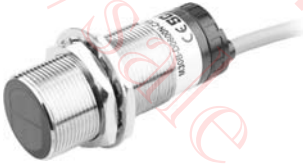


Retroreflective Mode with Polarizing Filter (Plastic Housing)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|---|---|-----------------------------|---------------------------------|---------------------------------|
| <p>Visible red: 680 nm</p>  <p>5m</p> <p>Retro-reflective Mode with Polarizing Filter Sensing Distance: 5m (Note)</p> | <p>2m Cable</p>  | 10-30V DC | NPN L.O./D.O. | M30P-L5000N-CX6C4U2-PF |
| | | | PNP L.O./D.O. | M30P-L5000P-CX6C4U2-PF |
| | | | NPN/PNP L.O./D.O. | M30P-L5000D-CX6C4U2-PF |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30P-L5000A-LX6G2U2-PF</u> |
| | | | Dark Operate (2-wire) | <u>M30P-L5000A-DX6G2U2-PF</u> |
| | | | Light Operate (3-wire) | <u>M30P-L5000A-LX6G3U2-PF</u> |
| | | | Dark Operate (3-wire) | <u>M30P-L5000A-DX6G3U2-PF</u> |
| | | 12-240V DC/ 24-240V AC | Light Operate (2-wire) | <u>M30P-L5000C-LX6G2U2-PF</u> |
| | | | Dark Operate (2-wire) | <u>M30P-L5000C-DX6G2U2-PF</u> |
| | <p>9m Cable</p>  | 10-30V DC | NPN L.O./D.O. | M30P-L5000N-CX6C4U9-PF |
| | | | PNP L.O./D.O. | M30P-L5000P-CX6C4U9-PF |
| | | | NPN/PNP L.O./D.O. | <u>M30P-L5000D-CX6C4U9-PF</u> |
| | | 20-250V AC | Light Operate (2-wire) | <u>M30P-L5000A-LX6G2U9-PF</u> |
| | | | Dark Operate (2-wire) | <u>M30P-L6000A-DX6G2U9-PF</u> |
| | | | Light Operate (3-wire) | <u>M30P-L5000A-LX6G3U9-PF</u> |
| | | | Dark Operate (3-wire) | <u>M30P-L5000A-DX6G3U9-PF</u> |
| | | 12-240V DC/ 24-240V AC | Light Operate (2-wire) | <u>M30P-L5000C-LX6G2U9-PF</u> |
| | | | Dark Operate (2-wire) | <u>M30P-L5000C-DX6G2U9-PF</u> |
| | <p>Quick Disconnect</p>  | 10-30V DC (Euro-style) | NPN L.O./D.O. | M30P-L5000N-CX6Q4UE-PF |
| | | | PNP L.O./D.O. | M30P-L5000P-CX6Q4UE-PF |
| | | | NPN/PNP L.O./D.O. | <u>M30P-L5000D-CX6Q4UE-PF</u> |
| | | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-L5000A-LX6Q4/2UM-PF</u> |
| | | | Dark Operate (2-wire) | <u>M30P-L5000A-DX6Q4/2UM-PF</u> |
| | | | Light Operate (3-wire) | <u>M30P-L5000A-LX6Q4UM-PF</u> |
| Dark Operate (3-wire) | | | <u>M30P-L5000A-DX6Q4UM-PF</u> | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Light Operate (2-wire) | <u>M30P-L5000C-LX6Q4UM-PF</u> | |
| | | Dark Operate (2-wire) | <u>M30P-L5000C-DX6Q4UM-PF</u> | |
| <p>6" Pigtail</p>  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | M30P-L5000N-CX6P4UE-PF |
| | | | PNP L.O./D.O. | M30P-L5000P-CX6P4UE-PF |
| | | | NPN/PNP L.O./D.O. | <u>M30P-L5000D-CX6P4UE-PF</u> |
| | 20-250V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-L5000A-LX6P4/2UM-PF</u> | |
| | | Dark Operate (2-wire) | <u>M30P-L5000A-DX6P4/2UM-PF</u> | |
| | | Light Operate (3-wire) | <u>M30P-L5000A-LX6P4UM-PF</u> | |
| | | Dark Operate (3-wire) | <u>M30P-L5000A-DX6P4UM-PF</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light Operate (2-wire) | <u>M30P-L5000C-LX6P4UM-PF</u> | |
| | | Dark Operate (2-wire) | <u>M30P-L5000C-DX6P4UM-PF</u> | |

Note: Used with RE-D82 (supplied with sensor) reflector.
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

M30 SERIES

Retroreflective Mode with Polarizing Filter (Brass Housing)


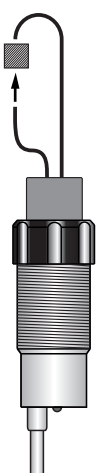




| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|---|---|--|---------------------------|--------------------------|------------------------|
| Retro-reflective Mode with Polarizing Filter Sensing Distance: 5m (Note) | 2m Cable  | 10-30V DC | NPN L.O./D.O. | M30B-L5000N-CX6C4U2-PF | |
| | | | PNP L.O./D.O. | M30B-L5000P-CX6C4U2-PF | |
| | | | NPN/PNP L.O./D.O. | M30B-L5000D-CX6C4U2-PF | |
| | | 20-250V AC | Light Operate (2-wire) | M30B-L5000A-LX6G2U2-PF | |
| | | | Dark Operate (2-wire) | M30B-L5000A-DX6G2U2-PF | |
| | | | Light Operate (3-wire) | M30B-L5000A-LX6G3U2-PF | |
| | | | Dark Operate (3-wire) | M30B-L5000A-DX6G3U2-PF | |
| | | 12-240V DC/ 24-240V AC | Light Operate (2-wire) | M30B-L5000C-LX6G2U2-PF | |
| | | | Dark Operate (2-wire) | M30B-L5000C-DX6G2U2-PF | |
| | | 9m Cable  | 10-30V DC | NPN L.O./D.O. | M30B-L5000N-CX6C4U9-PF |
| | | | | PNP L.O./D.O. | M30B-L5000P-CX6C4U9-PF |
| | | | | NPN/PNP L.O./D.O. | M30B-L5000D-CX6C4U9-PF |
| | 20-250V AC | | Light Operate (2-wire) | M30B-L5000A-LX6C2U9-PF | |
| | | | Dark Operate (2-wire) | M30B-L5000A-DX6C2U9-PF | |
| | | | Light Operate (3-wire) | M30B-L5000A-LX6C3U9-PF | |
| | | | Dark Operate (3-wire) | M30B-L5000A-DX6C3U9-PF | |
| | 12-240V DC/ 24-240V AC | | Light Operate (2-wire) | M30B-L5000C-LX6C2U9-PF | |
| | | | Dark Operate (2-wire) | M30B-L5000C-DX6C2U9-PF | |
| | Quick Disconnect  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | M30B-L5000N-CX6Q4UE-PF |
| | | | | PNP L.O./D.O. | M30B-L5000P-CX6Q4UE-PF |
| | | | | NPN/PNP L.O./D.O. | M30B-L5000D-CX6Q4UE-PF |
| | | 20-250V AC (Micro-style) | Light Operate (2-wire) | M30B-L5000A-LX6Q4/2UM-PF | |
| | | | Dark Operate (2-wire) | M30B-L5000A-DX6Q4/2UM-PF | |
| | | | Light Operate (3-wire) | M30B-L5000A-LX6Q4UM-PF | |
| Dark Operate (3-wire) | | | M30B-L5000A-DX6Q4UM-PF | | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Light Operate (2-wire) | M30B-L5000C-LX6Q4UM-PF | | |
| | | Dark Operate (2-wire) | M30B-L5000C-DX6Q4UM-PF | | |
| 6" Pigtail  | | 10-30V DC (Euro-style) | NPN L.O./D.O. | M30B-L5000N-CX6P4UE-PF | |
| | | | PNP L.O./D.O. | M30B-L5000P-CX6P4UE-PF | |
| | | | NPN/PNP L.O./D.O. | M30B-L5000D-CX6P4UE-PF | |
| | 20-250V AC (Micro-style) | Light Operate (2-wire) | M30B-L5000A-LX6P4/2UM-PF | | |
| | | Dark Operate (2-wire) | M30B-L5000A-DX6P4/2UM-PF | | |
| | | Light Operate (3-wire) | M30B-L5000A-LX6P4UM-PF | | |
| | | Dark Operate (3-wire) | M30B-L5000A-DX6P4UM-PF | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light Operate (2-wire) | M30B-L5000C-LX6P4UM-PF | | |
| | | Dark Operate (2-wire) | M30B-L5000C-DX6P4UM-PF | | |

Note: Used with RE-D82 (supplied with sensor) reflector.
 Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle

I: M30 SERIES

M30 SERIES




Glass Fiber Optic (Thru-beam Mode, Plastic Housing)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|---|--|---|----------------------------|----------------------------|--------------------------|
| Infrared LED  Quick Disconnect  Glass Fiber Optic (Thru-beam Mode) Sensing Distance (Note)  | 2m Cable  CE | 10-30V DC | NPN L.O./D.O. | <u>M30P-TGFN-CX9G4U2</u> | |
| | | | PNP L.O./D.O. | <u>M30P-TGFP-CX9G4U2</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30P-TGFD-CX9G4U2</u> | |
| | | 20-250V AC | Light-ON (2-wire) | <u>M30P-TGFA-LX9G2U2</u> | |
| | | | Dark-ON (2-wire) | <u>M30P-TGFA-DX9G2U2</u> | |
| | | | Light-ON (3-wire) | <u>M30P-TGFA-LX9G3U2</u> | |
| | | | Dark-ON (3-wire) | <u>M30P-TGFA-DX9G3U2</u> | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | <u>M30P-TGFC-LX9G2U2</u> | |
| | | | Dark-ON (2-wire) | <u>M30P-TGFC-DX9G2U2</u> | |
| | CE CE | Quick Disconnect  CE | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-TGFN-CX9Q4UE</u> |
| | | | | PNP L.O./D.O. | <u>M30P-TGFP-CX9Q4UE</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30P-TGFD-CX9Q4UE</u> |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | <u>M30P-TGFA-LX9Q4/2UM</u> | |
| | | | Dark-ON (2-wire) | <u>M30P-TGFA-DX9Q4/2UM</u> | |
| | | | Light-ON (3-wire) | <u>M30P-TGFA-LX9Q4UM</u> | |
| Dark-ON (3-wire) | | | <u>M30P-TGFA-DX9Q4UM</u> | | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Light-ON (2-wire) | <u>M30P-TGFC-LX9Q4UM</u> | | |
| | | Dark-ON (2-wire) | <u>M30P-TGFC-DX9Q4UM</u> | | |
| CE CE | 6" Pig tail  CE | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-TGFN-CX9P4UE</u> | |
| | | | PNP L.O./D.O. | <u>M30P-TGFP-CX9P4UE</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30P-TGFD-CX9P4UE</u> | |
| | 20-250V AC (Micro-style) | Light-ON (2-wire) | <u>M30P-TGFA-LX9P4/2UM</u> | | |
| | | Dark-ON (2-wire) | <u>M30P-TGFA-DX9P4/2UM</u> | | |
| | | Light-ON (3-wire) | <u>M30P-TGFA-LX9P4UM</u> | | |
| | | Dark-ON (3-wire) | <u>M30P-TGFA-DX9P4UM</u> | | |
| | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | <u>M30P-TGFC-LX9P4UM</u> | | |
| | | Dark-ON (2-wire) | <u>M30P-TGFC-DX9P4UM</u> | | |

Note: Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle
 Depends on fiber optic used (Please see our Glass Fiber & Plastic Fiber catalogue for detail information).

M30 SERIES

Glass Fiber Optic (Thru-beam Mode, Brass Housing)








| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | | |
|---|---|---|---|----------------------------|-------------------|--------------------------|
| Infrared LED |  | 10-30V DC | NPN L.O./D.O. | <u>M30B-TGFN-CX9G4U2</u> | | |
| | | | PNP L.O./D.O. | <u>M30B-TGFP-CX9G4U2</u> | | |
| | | | NPN/PNP L.O./D.O. | <u>M30B-TGFD-CX9G4U2</u> | | |
| | | 20-250V AC | Light-ON (2-wire) | <u>M30B-TGFA-LX9G2U2</u> | | |
| | | | Dark-ON (2-wire) | <u>M30B-TGFA-DX9G2U2</u> | | |
| | | | Light-ON (3-wire) | <u>M30B-TGFA-LX9G3U2</u> | | |
| | | | Dark-ON (3-wire) | <u>M30B-TGFA-DX9G3U2</u> | | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | <u>M30B-TGFC-LX9G2U2</u> | | |
| | | | Dark-ON (2-wire) | <u>M30B-TGFC-DX9G2U2</u> | | |
| | | Glass Fiber Optic (Thru-beam Mode) Sensing Distance (Note) |  | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-TGFN-CX9Q4UE</u> |
| | | | | | PNP L.O./D.O. | <u>M30B-TGFP-CX9Q4UE</u> |
| | | | | | NPN/PNP L.O./D.O. | <u>M30B-TGFD-CX9Q4UE</u> |
| 20-250V AC (Micro-style) | Light-ON (2-wire) | | | <u>M30B-TGFA-LX9Q4/2UM</u> | | |
| | Dark-ON (2-wire) | | | <u>M30B-TGFA-DX9Q4/2UM</u> | | |
| | Light-ON (3-wire) | | | <u>M30B-TGFA-LX9Q4UM</u> | | |
| | Dark-ON (3-wire) | | | <u>M30B-TGFA-DX9Q4UM</u> | | |
| 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | | | <u>M30B-TGFC-LX9Q4UM</u> | | |
| | Dark-ON (2-wire) | | | <u>M30B-TGFC-DX9Q4UM</u> | | |
| 6" Pig tail |  | | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-TGFN-CX9P4UE</u> |
| | | | | | PNP L.O./D.O. | <u>M30B-TGFP-CX9P4UE</u> |
| | | | | | NPN/PNP L.O./D.O. | <u>M30B-TGFD-CX9P4UE</u> |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | <u>M30B-TGFA-LX9P4/2UM</u> | | |
| | | | Dark-ON (2-wire) | <u>M30B-TGFA-DX9P4/2UM</u> | | |
| | | | Light-ON (3-wire) | <u>M30B-TGFA-LX9P4UM</u> | | |
| | | | Dark-ON (3-wire) | <u>M30B-TGFA-DX9P4UM</u> | | |
| | | 12-240V DC/ 24-240V AC (Micro-style) | Light-ON (2-wire) | <u>M30B-TGFC-LX9P4UM</u> | | |
| | | | Dark-ON (2-wire) | <u>M30B-TGFC-DX9P4UM</u> | | |

Note: Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle
 Depends on fiber optic used (Please see our Glass Fiber & Plastic Fiber catalogue for detail information).

I: M30 SERIES

M30 SERIES





Glass Fiber Optic (Diffuse Mode, Plastic Housing)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|---|--|---|--------------------------|----------------------------|--------------------------|
| Infrared LED  Glass Fiber Optic (Diffuse Mode) Sensing Distance (Note) | 2m Cable   | 10-30V DC | NPN L.O./D.O. | <u>M30P-DGFN-CX9G4U2</u> | |
| | | | PNP L.O./D.O. | <u>M30P-DGFP-CX9G4U2</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30P-DGFD-CX9G4U2</u> | |
| | | 20-250V AC | Light-ON (2-wire) | <u>M30P-DGFA-LX9G2U2</u> | |
| | | | Dark-ON (2-wire) | <u>M30P-DGFA-DX9G2U2</u> | |
| | | | Light-ON (3-wire) | <u>M30P-DGFA-LX9G3U2</u> | |
| | | | Dark-ON (3-wire) | <u>M30P-DGFA-DX9G3U2</u> | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | <u>M30P-DGFC-LX9G2U2</u> | |
| | | | Dark-ON (2-wire) | <u>M30P-DGFC-DX9G2U2</u> | |
| | | Quick Disconnect   | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-DGFN-CX9Q4UE</u> |
| | | | | PNP L.O./D.O. | <u>M30P-DGFP-CX9Q4UE</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30P-DGFD-CX9Q4UE</u> |
| | 20-250V AC (Micro-style) | | Light-ON (2-wire) | <u>M30P-DGFA-LX9Q4/2UM</u> | |
| | | | Dark-ON (2-wire) | <u>M30P-DGFA-DX9Q4/2UM</u> | |
| | | | Light-ON (3-wire) | <u>M30P-DGFA-LX9Q4UM</u> | |
| | | | Dark-ON (3-wire) | <u>M30P-DGFA-DX9Q4UM</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | | Light-ON (2-wire) | <u>M30P-DGFC-LX9Q4UM</u> | |
| | | | Dark-ON (2-wire) | <u>M30P-DGFC-DX9Q4UM</u> | |
| | 6" Pig tail   | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30P-DGFN-CX9P4UE</u> |
| | | | | PNP L.O./D.O. | <u>M30P-DGFP-CX9P4UE</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30P-DGFD-CX9P4UE</u> |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | <u>M30P-DGFA-LX9P4/2UM</u> | |
| | | | Dark-ON (2-wire) | <u>M30P-DGFA-DX9P4/2UM</u> | |
| | | | Light-ON (3-wire) | <u>M30P-DGFA-LX9P4UM</u> | |
| Dark-ON (3-wire) | | | <u>M30P-DGFA-DX9P4UM</u> | | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Light-ON (2-wire) | <u>M30P-DGFC-LX9P4UM</u> | | |
| | | Dark-ON (2-wire) | <u>M30P-DGFC-DX9P4UM</u> | | |

Note: Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle
 Depends on fiber optic used (Please see our Glass Fiber & Plastic Fiber catalogue for detail information).

M30 SERIES

Glass Fiber Optic (Diffuse Mode, Brass Housing)

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|--|--|---|--------------------------|----------------------------|--------------------------|
| Infrared LED  Glass Fiber Optic (Diffuse Mode) Sensing Distance (Note) | 2m Cable  CE | 10-30V DC | NPN L.O./D.O. | <u>M30B-DGFN-CX9C4U2</u> | |
| | | | PNP L.O./D.O. | <u>M30B-DGFP-CX9C4U2</u> | |
| | | | NPN/PNP L.O./D.O. | <u>M30B-DGFD-CX9C4U2</u> | |
| | | 20-250V AC | Light-ON (2-wire) | <u>M30B-DGFA-LX9C2U2</u> | |
| | | | Dark-ON (2-wire) | <u>M30B-DGFA-DX9C2U2</u> | |
| | | | Light-ON (3-wire) | <u>M30B-DGFA-LX9C3U2</u> | |
| | | | Dark-ON (3-wire) | <u>M30B-DGFA-DX9C3U2</u> | |
| | | 12-240V DC/ 24-240V AC | Light-ON (2-wire) | <u>M30B-DGFC-LX9C2U2</u> | |
| | | | Dark-ON (2-wire) | <u>M30B-DGFC-DX9C2U2</u> | |
| | | Quick Disconnect  CE | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-DGFN-CX9Q4UE</u> |
| | | | | PNP L.O./D.O. | <u>M30B-DGFP-CX9Q4UE</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30B-DGFD-CX9Q4UE</u> |
| | 20-250V AC (Micro-style) | | Light-ON (2-wire) | <u>M30B-DGFA-LX9Q4/2UM</u> | |
| | | | Dark-ON (2-wire) | <u>M30B-DGFA-DX9Q4/2UM</u> | |
| | | | Light-ON (3-wire) | <u>M30B-DGFA-LX9Q4UM</u> | |
| | | | Dark-ON (3-wire) | <u>M30B-DGFA-DX9Q4UM</u> | |
| | 12-240V DC/ 24-240V AC (Micro-style) | | Light-ON (2-wire) | <u>M30B-DGFC-LX9Q4UM</u> | |
| | | | Dark-ON (2-wire) | <u>M30B-DGFC-DX9Q4UM</u> | |
| | 6" Pig tail  CE | | 10-30V DC (Euro-style) | NPN L.O./D.O. | <u>M30B-DGFN-CX9P4UE</u> |
| | | | | PNP L.O./D.O. | <u>M30B-DGFP-CX9P4UE</u> |
| | | | | NPN/PNP L.O./D.O. | <u>M30B-DGFD-CX9P4UE</u> |
| | | 20-250V AC (Micro-style) | Light-ON (2-wire) | <u>M30B-DGFA-LX9P4/2UM</u> | |
| | | | Dark-ON (2-wire) | <u>M30B-DGFA-DX9P4/2UM</u> | |
| | | | Light-ON (3-wire) | <u>M30B-DGFA-LX9P4UM</u> | |
| Dark-ON (3-wire) | | | <u>M30B-DGFA-DX9P4UM</u> | | |
| 12-240V DC/ 24-240V AC (Micro-style) | | Light-ON (2-wire) | <u>M30B-DGFC-LX9P4UM</u> | | |
| | | Dark-ON (2-wire) | <u>M30B-DGFC-DX9P4UM</u> | | |

Note: Coming Soon : Part numbers with underline
 In Preparation: Part numbers with a line through the middle
 Depends on fiber optic used (Please see our Glass Fiber & Plastic Fiber catalogue for detail information).

I: M30 SERIES

M30 SERIES

Specifications (DC)

| | |
|-------------------------------|--|
| Supply Voltage | 10 - 30V DC (10% maximum ripple) |
| Current Consumption (no load) | <30 mA |
| Supply Protection Circuitry | Protected against reverse polarity and transient voltages |
| Output Protection Circuitry | Protected against false pulse on power-up and continuous overload or short circuit of outputs |
| Construction | Housing are thermoplastic polyester; Lenses are acrylic |
| Environmental Rating | IEC IP67 / NEMA 6P |
| Repeatability | Thru-beam: 375 microseconds; Polarized Retro, Non-Polarized Retro, Fixed-field and Diffuse modes: 750 microseconds. |
| Operating Temperature | Temperature: -40° to +70°C Maximum relative humidity: 90% at 50 °C (non-condensing) |
| Output Rating | 150mA max.; When wired for alarm output, the total load may not exceed 150 mA; Off-state leakage current : <1 microamp at 30V DC; On-state saturation voltage: <1V @10 mA DC; <1.5V @ 150 mA DC |
| Output Response Time | Thru-beam: 3 milliseconds "on", 1.5 milliseconds "off"; Polarized Retro, Non-Polarized Retro, Fixed-field and Diffuse: 3 milliseconds "on" and "off" NOTE:100 millisecond delay on power-up; outputs are non-conducting during this time |
| Output Configuration | SPDT (complementary) solid-state dc switch; choose NPN or PNP models. Light Operate: N.O. output conducts when the sensor sees its own modulated light Dark Operate: N.C. output conducts when the sensor sees dark; the N.C. output may be wired as a normally open marginal signal alarm output, depending hookup to the power supply. |
| Indicators | Two LEDs: Green and Yellow GREEN glowing steadily = power to sensor is "on" YELLOW glowing steadily = normally open output is conducting |
| EMC | IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact) |
| Voltage Withstand Ability | IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure |
| Insulation Resistance | >20M Ω , with 1500V AC megger between all supply terminals connected together and enclosure |
| Vibration Resistance | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min |
| Shock Resistance | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each |
| Connections | 2 m (6.5 ft) or 9 m (30 ft) attached cable, or 4-pin Euro-style connector or pig-tail |
| Pigtail Type | See Pigtail Series or our Cables & Connectors catalogue. |

M30 SERIES**Specifications (AC)**

| | |
|------------------------------|--|
| Supply Voltage | 20 - 250V AC(50/60 Hz) |
| Current Consumption(no load) | <1.8 mA |
| Supply Protection Circuitry | Protected against transient voltages |
| Output Protection Circuitry | Protected against false pulse on power-up |
| Construction | Housing are thermoplastic polyester; Lenses are acrylic |
| Environmental Rating | IEC IP67 / NEMA 6P |
| Repeatability | Thru-beam: 2 microseconds; Polarized Retro, Non-Polarized Retro, Fixed-field and Diffuse modes: 4 microseconds. |
| Operating Temperature | Temperature: -40° to +70°C Maximum relative humidity: 90% at 50 °C (non-condensing) |
| Output Response Time | Thru-beam: 16 milliseconds "on", 8 milliseconds "off"; Polarized Retro, Non-Polarized Retro, Fixed-field and Diffuse: 16 milliseconds "on" and "off" NOTE: 100 millisecond delay on power-up |
| Output Configuration | SPST solid-state AC switch; 2-wire hookup; choose light operate or dark operate mode: Light Operate Models: Output conducts when the sensor sees its own (or the emitter's) modulated light Dark Operate Models: Output conducts when sensor sees dark |
| Output Rating | 300mA maximum Fixed-field models: derate 5 mA/°C above +50 °C (122 °C); Inrush capability: 1 amp for 20 milliseconds, non-repetitive Off-state leakage: current<1.8mA On-state voltage drop: 3V @ 300mA AC; 2V @ 15 mA AC |
| Indicators | Two LEDs: Green and Yellow GREEN glowing steadily = power to sensor is "on" GREEN flashing = output is overloaded (dc models only) YELLOW glowing steadily = normally open output is conducting |
| EMC | IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact) |
| Voltage Withstand Ability | IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure |
| Insulation Resistance | >20M Ω, with 1500V AC megger between all supply terminals connected together and enclosure |
| Vibration Resistance | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min |
| Shock Resistance | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each |
| Connections | 2 m (6.5 ft) or 9 m (30 ft) attached cable, or 4-pin micro-style or pig-tail |
| Pigtail Type | See Pigtail Series or our Cables & Connectors catalogue. |

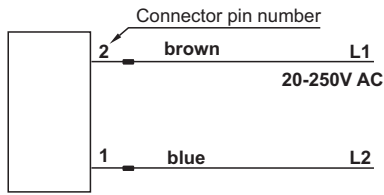
M30 SERIES**Specifications (AC/DC)**

| | |
|------------------------------|--|
| Supply Voltage | 12-240V DC / 24-240V AC |
| Current Consumption(no load) | <1.8 mA @ AC, <30 mA @ DC |
| Supply Protection Circuitry | Protected against transient voltages |
| Output Protection Circuitry | Protected against false pulse on power-up |
| Construction | Housing are thermoplastic polyester; Lenses are acrylic |
| Environmental Rating | IEC IP67 / NEMA 6P |
| Repeatability | Thru-beam: 2 microseconds; Polarized Retro, Non-Polarized Retro, Fixed-field and Diffuse modes: 4 microseconds. |
| Operating Temperature | Temperature: -40° to +70°C Maximum relative humidity: 90% at 50 °C (non-condensing) |
| Output Response Time | Thru-beam: 16 milliseconds "on", 8 milliseconds "off"; Polarized Retro, Non-Polarized Retro, Fixed-field and Diffuse: 16 milliseconds "on" and "off" NOTE: 100 millisecond delay on power-up |
| Output Configuration | SPST solid-state AC switch; 2-wire hookup, choose light operate or dark operate mode; Light Operate Models: Output conducts when the sensor sees its own (or the emitter's) modulated light Dark Operate Models: Output conducts when sensor sees dark |
| Output Rating | 300mA maximum Fixed-field models: derate 5 mA/°C above +50 °C (122 °C); Inrush capability : 1 amp for 20 milliseconds, non-repetitive Off-state leakage current: <1.8mA On-state voltage drop: 3V @ 300mA AC; 2V @ 15mA AC |
| Indicators | Two LEDs: Green and Yellow GREEN glowing steadily = power to sensor is "on" GREEN flashing = output is overloaded (dc models only) YELLOW glowing steadily = normally open output is conducting |
| EMC | IEC 60947-5-2, Parts 7.2.6.1. 2. 3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact) |
| Voltage Withstand Ability | IEC 60947-5-2, Part 8.3.3.4 or 1500VAC for one min, between all supply terminals connected together and enclosure |
| Insulation Resistance | >20MΩ, with 1500V AC megger between all supply terminals connected together and enclosure |
| Vibration Resistance | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min |
| Shock Resistance | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each |
| Connections | 2 m (6.5 ft) or 9 m (30 ft) attached cable, or 4-pin micro-style or pig-tail |
| Pig tail Type | See Pigtail Series or our Cables & Connectors catalogue. |

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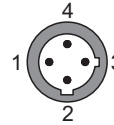
Connection Diagrams (AC & AC/DC)

Emitter of Thru-beam Mode (AC)



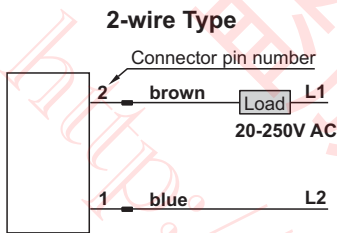
Connector pin position

Micro-style

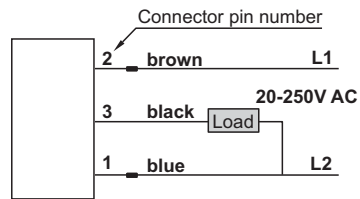


- 1. Blue(L2)
- 2. Brown (L1)
- 3. Not used
- 4. Not used

Receiver of Thru-beam Mode & other mode sensors (AC)

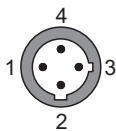


3-wire Type



Connector pin position

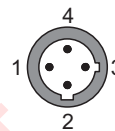
Micro-style



- 1. Blue(L2)
- 2. Brown (L1)
- 3. Not used
- 4. Not used

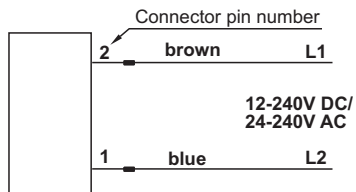
Connector pin position

Micro-style



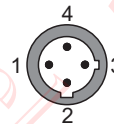
- 1. Blue(L2)
- 2. Brown (L1)
- 3. Black (Output for 3-wire)
- 4. Not used

Emitter of Thru-beam Mode (AC/DC)



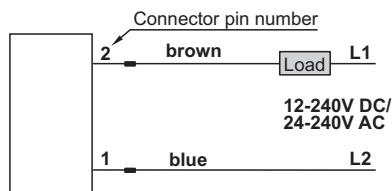
Connector pin position

Micro-style



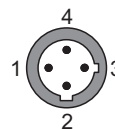
- 1. Blue(L2)
- 2. Brown (L1)
- 3. Not used
- 4. Not used

Receiver of Thru-beam Mode & other mode sensors (AC/DC)



Connector pin position

Micro-style



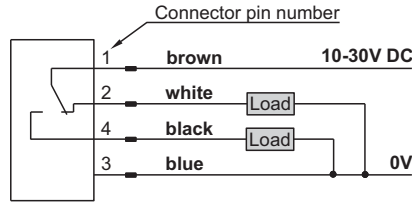
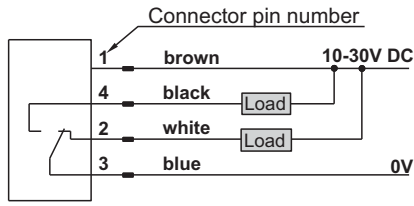
- 1. Blue(L2)
- 2. Brown (L1)
- 3. Not used
- 4. Not used

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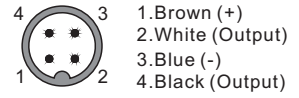
Connection Diagrams (DC)

Standard NPN output Standard PNP output

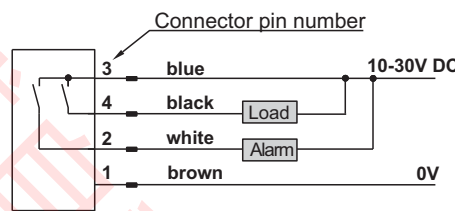
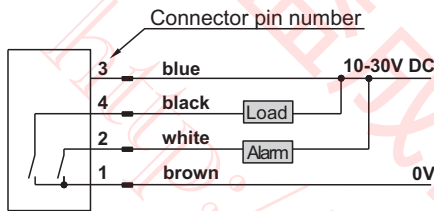


Connector pin position

Euro-style

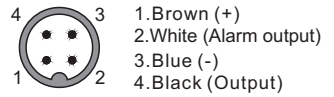


NPN output with Alarm output PNP output with Alarm output

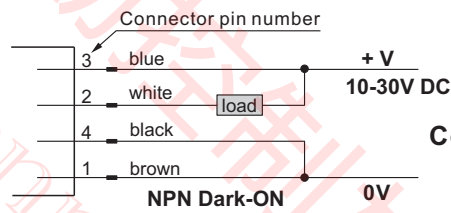
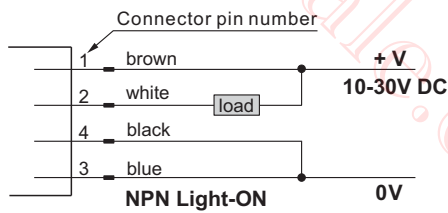


Connector pin position

Euro-style

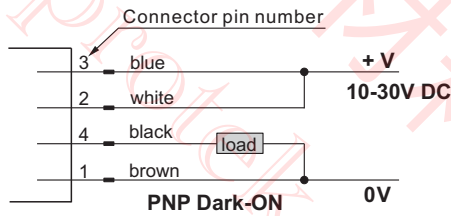
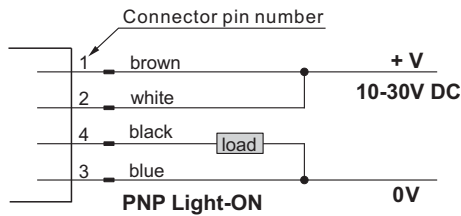
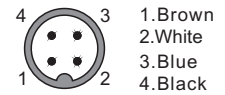


NPN/PNP output type

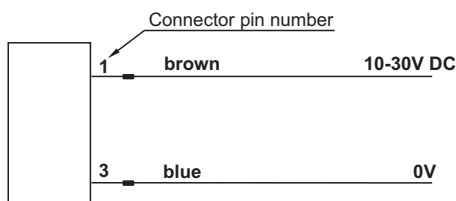


Connector pin position

Euro-style



Emitter of Thru-beam Mode



Connector pin position

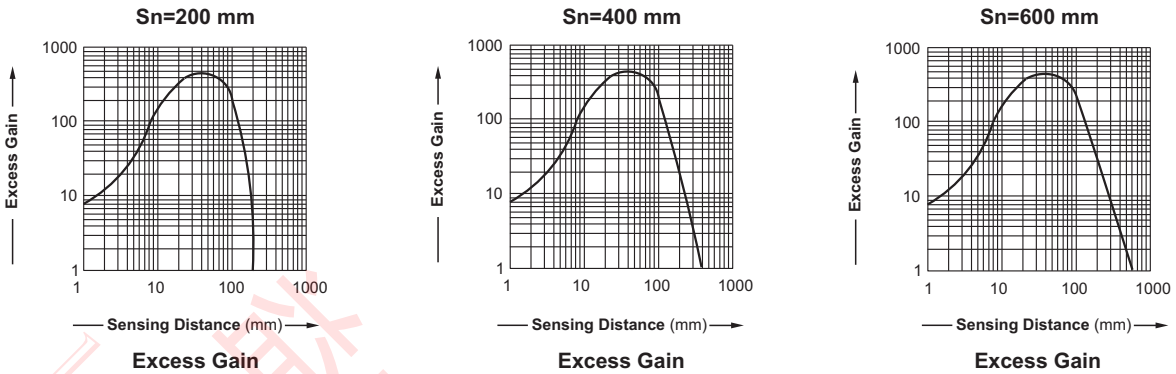
Euro-style



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Sensing Characteristics (Typical)

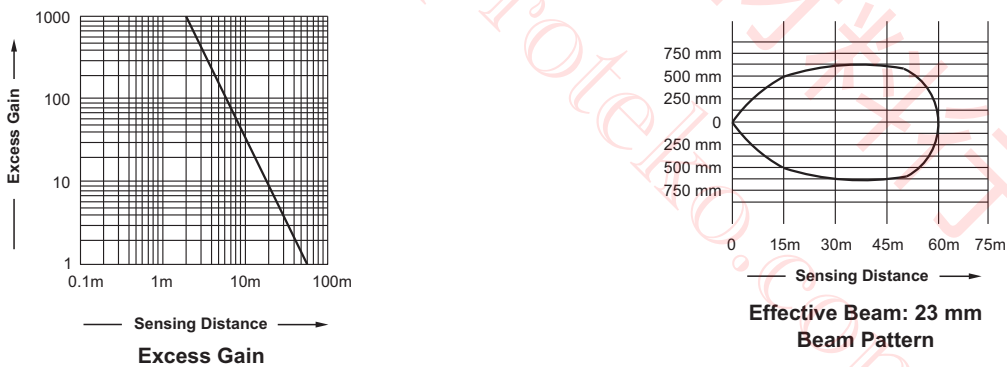
Diffuse Mode (with background suppression)



Retroreflective Mode (with polarizing filter)



Thru-beam Mode



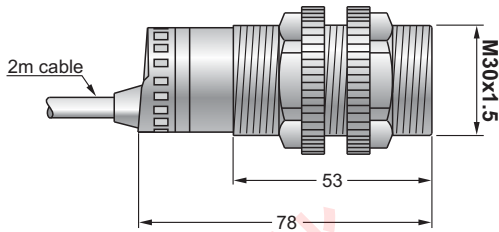
I: M30 SERIES

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Dimensions (Unit: mm)

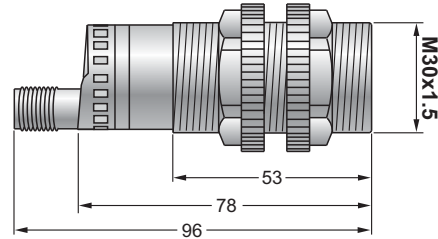
Sensor Type

Cable Type

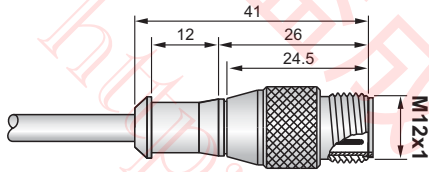


Connector Type

(DC: Euro style; AC: Micro style)



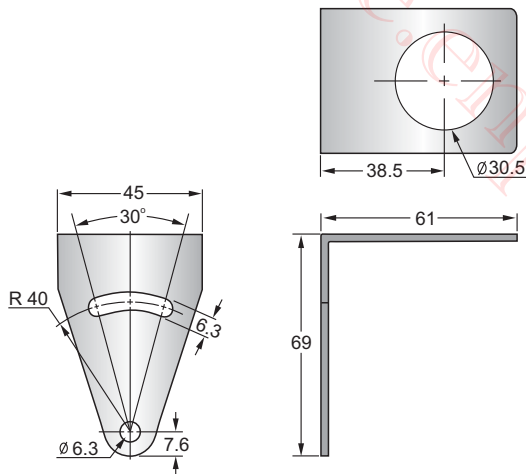
Pigtail* Type



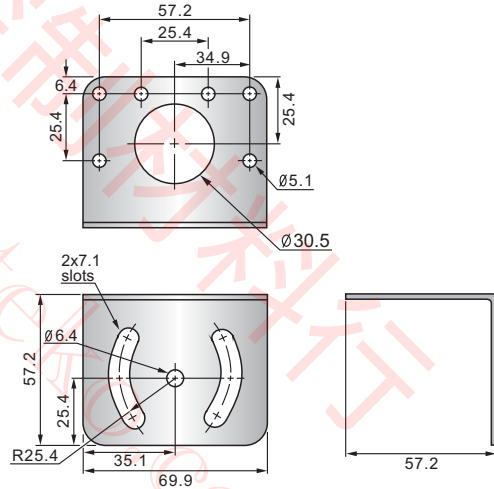
*: Please see **Pigtail Series** or our **Cables & Connectors** catalogue for more information.

Mounting Bracket *

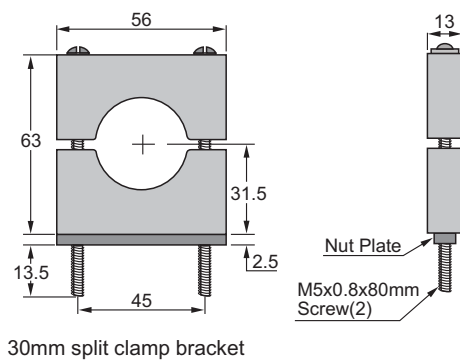
MB-6961 (optional)



MB-7057 (optional)

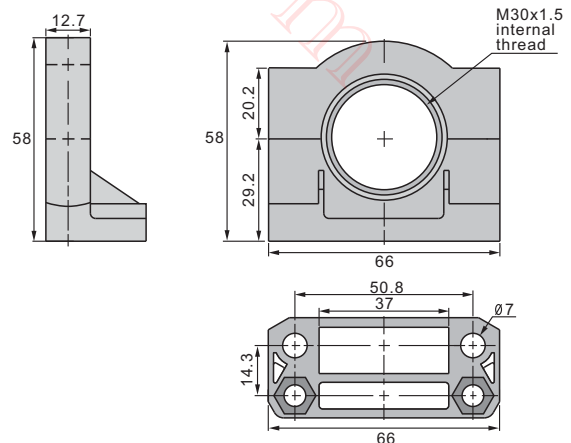


MB-6356 (optional)



30mm split clamp bracket

MB-6658 (optional)



Mounting Bracket to Provide 360° Rotation

*: Please see **Accessories** (Universal Mounting Brackets Series).

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