DC - 3 WIRE – STANDARD Brass, Nickel Plated (BN), Cylindrical, Threaded, 10-30V DC, 200mA, 1 LED for Output Energized

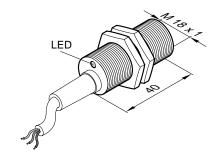
- Most complete range of Fixed Cable and Quick Disconnect Styles
- Available in normally open (N.O.) and normally closed (N.C.) output configuration
- Industry standard 10-30V DC operating voltage and 200mA output current
- Carries (€ mark

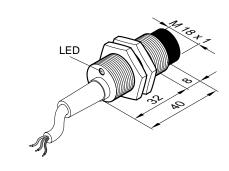
- IEC(529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Short Circuit Protection
- Overload Protection
- Reverse Polarity Protection
- Wire Break Resistance
- Temperature Range:
 -25 to 70°C (-13 to 158°F)

| | M18 Flush Mount | | | M18 Non-Flush Mount | | |
|-----------------------------------|-----------------|-----------------|-----------------|---------------------|------------------|------------------|
| Sensing Distance | 5mm (.20 in.) | | | 8mm (.31 in.) | | |
| Cable or Connector Style Cat. No. | Cable | 63 | 65 | Cable | 63 | 65 |
| PNP Normally Open | 9964-4000 | 9964-4063 | 9964-4065 | 9964-4200 | 9964-4263 | 9964-4265 |
| Normally Closed \ | 9964-4400 | | 9964-4465 | 9964-4600 | | 9964-4665 |
| NPN Normally Open | 9964-4100 | 9964-4163 | 9964-4165 | 9964-4300 | 9964-4363 | 9964-4365 |
| Normally Closed _ | 9964-4500 | | 9964-4565 | 9964-4700 | | 9964-4765 |
| Ripple Voltage | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% |
| Voltage Range | 10V - 30V | 10V - 30V | 10V - 30V | 10V - 30V | 10V - 30V | 10V - 30V |
| Supply Current | ≤10 mA | ≤10 mA | ≤10 mA | ≤10 mA | ≤10 mA | ≤10 mA |
| Max. Load Current | 200 mA | 200 mA | 200 mA | 200 mA | 200 mA | 200 mA |
| Voltage Drop Across Sensor | ≤2.4V | ≤2.4V | ≤2.4V | ≤2.4V | ≤2.4V | ≤2.4V |
| Max. Leakage Currrent | ≤10 µA | ≤10 µA | ≤10 µA | ≤10 µA | ≤10 µA | ≤10 µA |
| Switching Frequency | 1000 Hz | 1000 Hz | 1000 Hz | 500 Hz | 500 Hz | 500 Hz |
| Hysterisis | ≤15% | ≤15% | ≤15% | ≤15% | ≤15% | ≤15% |
| Temperature Drift | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | ≤10% |
| Repeatability | .25mm (.01 in.) | .25mm (.01 in.) | .25mm (.01 in.) | .40mm (.016 in.) | .40mm (.016 in.) | .40mm (.016 in.) |
| Front Cap Material | PBTP | PBTP | PBTP | РВТВ | PBTB | РВТВ |

Fixed Cable

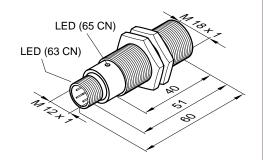
PVC 2m (6ft. 6in.). For 5m (16 ft. 5 in.) cable length, change the last two digits of the part number to 02. For other cable lengths and/or PUR cable, please consult Altech. Supplied with Brass, Nickel Plated (BN) locknuts.

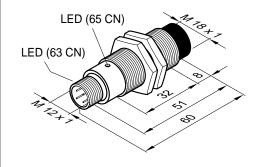




63 and 65 Style Connectors

4-pin, Micro style, 12mm (.47 in.) supplied with Brass, Nickel Plated (BN) locknuts. The 63 Connector is clear, offering 360° LED viewing.







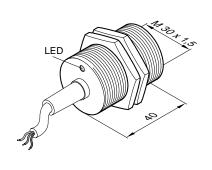
Metric/in. Conversion Table

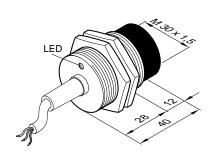
| 1.5 mm = .06 in. | 23.0 mm = .91 in. |
|-------------------|----------------------|
| 2.0 mm = .08 in. | 28.0 mm = 1.10 in |
| 4.0 mm = .16 in | 30.0 mm = 1.18 in. |
| 5.0 mm = .20 in. | 32.0 mm = 1.26 in. |
| 6.0 mm = .23 in. | 34.0 mm = 1.34 in. |
| 8.0 mm = .31 in. | 40.0 mm = 1.57 in. |
| 10.0 mm = .39 in. | 50.0 mm = 1.97 in. |
| 12.0 mm = .47 in. | 51.0 mm = 2.01 in. |
| 15.0 mm = .59 in. | 60.0 mm = 2.36 in. |
| 18.0 mm = .70 in. | 80.0 mm = 3.12 in. |
| | |

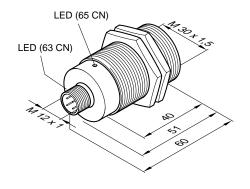
 $\begin{array}{lll} m = 1.18 \text{ in.} \\ m = 1.26 \text{ in.} \\ m = 1.34 \text{ in.} \\ m = 1.57 \text{ in.} \\ m = 1.97 \text{ in.} \\ m = 2.01 \text{ in.} \end{array}$

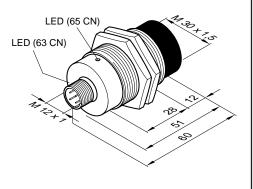
| M30 Flush Mount | | | M30 Non-Flush Mount | | | |
|-----------------|--|--|---|--|--|--|
| 10mm (.39 in.) | | | 15mm (.59 in.) | | | |
| 63 | 65 | Cable | 63 | 65 | | |
| 966-4063 | 9966-4065 | 9966-4200 | 9966-4263 | 9966-4265 | | |
| | 9966-4465 | 9966-4600 | | 9966-4665 | | |
| 966-4163 | 9966-4165 | 9966-4300 | | 9966-4365 | | |
| | 9966-4565 | 9966- 4700 | | 9966-4765 | | |
| ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | | |
| 10V - 30V | 10V - 30V | 10V - 30V | 10V - 30V | 10V - 30V | | |
| ≤10 mA | ≤10 mA | ≤10 mA | ≤10 mA | ≤10 mA | | |
| 200 mA | 200 mA | 200 mA | 200 mA | 200 mA | | |
| ≤2.4V | ≤2.4V | ≤2.4V | ≤2.4V | ≤2.4V | | |
| ≥10 µA | ≥10 µA | ≥10µA | ≥10µA | ≥10µA | | |
| 500 Hz | 500 Hz | 300 Hz | 300 Hz | 300 Hz | | |
| ≤15% | ≤15% | ≤15% | ≤15% | ≤15% | | |
| ≤10% | ≤10% | ≤10% | ≤10% | ≤10% | | |
| mm (.02 in.) | .50mm (.02 in.) | .75mm (.03 in.) | .75mm (.03 in.) | .75mm (.03 in.) | | |
| PBTB | PBTB | PBTB | РВТВ | PBTB | | |
| | 63 1966-4063 19966-4160 19966-4160 199660 199660 199660 199660 199660 199660 199660 199660 199660 199660 199660 199660 199600 1996 | 63 65 966-4063 9966-4065 9966-4163 9966-4165 9966-4163 9966-4165 9966-4565 ≤10% ≤10% 10V - 30V 10V - 30V ≤10 mA ≤10 mA 200 mA ≤2.4V ≤2.4V ≥10 μA ≤10 μA 500 Hz 500 Hz ≤15% ≤15% ≤10% cmm (.02 in.) | nm (.39 in.) 1 63 65 Cable 9966-4063 9966-4065 9966-4200 9966-4465 9966-4600 9966-4600 9966-4163 9966-4165 9966-4300 9966-4565 9966-4700 ≤10% ≤10% ≤10% ≤10% 10V - 30V 10V - 30V 10V - 30V ≤10 mA ≤10 mA ≤00 mA 200 mA 200 mA 200 mA ≤2.4V ≤2.4V ≤2.4V ≥10 μA ≥10 μA ≥10 μA 500 Hz 300 Hz ≤15% ≤15% ≤15% ≤15% ≤10% ≤10% ≤10% mm (.02 in.) .50mm (.02 in.) .75mm (.03 in.) | nm (.39 in.) 15mm (.59 in.) 63 65 Cable 63 9966-4063 9966-4065 9966-4200 9966-4263 9966-4465 9966-4600 9966-4263 9966-4163 9966-4165 9966-4300 9966-4565 9966-4700 ≤10% ≤10% ≤10% ≤10% ≤10 mA ≤10 mA ≤10 mA ≥00 mA ≥10 mA ≤10 mA ≥2.4V ≤2.4V ≤2.4V ≥10 μA ≥10 μA ≥10 μA ≥10 μA ≥10 μA ≥10 μA ≥15% ≤15% ≤15% ≤15% ≤15% ≤15% ≤10% ≤10% ≤10% mm (.02 in.) .50mm (.02 in.) .75mm (.03 in.) .75mm (.03 in.) | | |

Note: Sensor dimensions in mm.









Accessories

2 meter (6 ft. 6 in.) DC Cable Assemblies for Quick Disconnect Sensors

63/65 Connectors, 4 PIN - 3 Wire cable (PIN 1, 3, 4):

63/65 Connector 8000-5110 PVC, Straight

63/65 Connector 8000-5120 PVC, Right Angle 63/65 Connector 8000-5150 PVC, Right Angle, 2LED, NPN

63/65 Connector 8000-5160 PVC, Right Angle, 2LED, PNP 63/65 Connectors, 4PIN – 4 Wire cable (PIN 1, 2, 3, 4):

63/65 Connectors 8000-5280 PVC, Right Angle

Change last digit of connector number to 5 for 5 meter cable

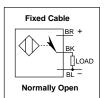
Refer to pages 116-121 for more cable information

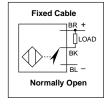
Mounting Brackets - see Pages 114-115

Wiring Diagrams

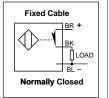
Note: Wire colors are applicable to cable purchased from Altech

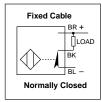
PNP

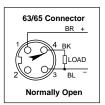


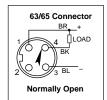


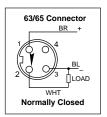
NPN

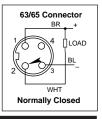












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