

**AC - 2 WIRE - EXTENDED  
VOLTAGE RANGE – Brass, Nickel  
Plated (BN), and TROGAMID T  
Cylindrical, Threaded,  
20-250V AC, 500 mA,  
1 LED for Output Energized**

- **Higher Current Rating**
- **Wider Voltage Range**
- **Carries  $\zeta$  mark**

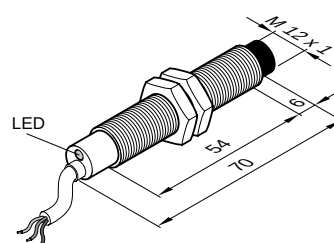
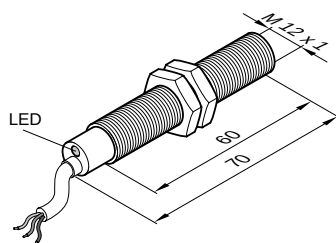
- IEC (529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Temperature Range:  
-25 to 70°C (-13 to 158°F)

| M12 Flush Mount                                                                                   |                     |                  |                     | M12 Non-Flush Mount |                  |                     |
|---------------------------------------------------------------------------------------------------|---------------------|------------------|---------------------|---------------------|------------------|---------------------|
| Sensing Distance<br>2mm (.08 in.)                                                                 |                     |                  |                     | 4mm (.16 in.)       |                  |                     |
| Cable or Connector Style Cat. No.                                                                 | Cable               | Cable            | 68                  | Cable               | Cable            | 68                  |
| Normally Open    | 9924-0500           | 9924-1100        | 9924-0568           | 9924-0700           | 9924-1000        | 9924-0768           |
| Normally Closed  | 9924-0400           | 9924-1300        | 9924-0468           | 9924-0900           | 9924-1200        | 9924-0968           |
| Voltage Range                                                                                     | 20V-250V            | 20V - 250V       | 20V - 250V          | 20V - 250V          | 20V - 250V       | 20V - 250V          |
| Operating Frequency                                                                               | 50/60Hz             | 50/60Hz          | 50/60Hz             | 50/60Hz             | 50/60Hz          | 50/60Hz             |
| Supply Current                                                                                    | 2 mA                | 2 mA             | 2 mA                | 2 mA                | 2 mA             | 2 mA                |
| Max. Load Current                                                                                 | 300 mA              | 300 mA           | 300 mA              | 300 mA              | 300 mA           | 300 mA              |
| Voltage Drop Across Sensor                                                                        | ≤5V                 | ≤5V              | ≤5V                 | ≤5V                 | ≤5V              | ≤5V                 |
| Max. Leakage Current                                                                              | ≤2mA                | ≤2mA             | ≤2mA                | ≤2mA                | ≤2mA             | ≤2mA                |
| Short Term Current (20 ms, 1Hz)                                                                   | 2A                  | 2A               | 2A                  | 2A                  | 2A               | 2A                  |
| Switching Frequency                                                                               | 15Hz                | 15Hz             | 15Hz                | 15Hz                | 15Hz             | 15Hz                |
| Hysteresis                                                                                        | ≤15%                | ≤15%             | ≤15%                | ≤15%                | ≤15%             | ≤15%                |
| Temperature Drift                                                                                 | ≤10%                | ≤10%             | ≤10%                | ≤10%                | ≤10%             | ≤10%                |
| Repeatability                                                                                     | .20mm (.008 in.)    | .20mm (.008 in.) | .20mm (.008 in.)    | .40mm (.016 in.)    | .40mm (.016 in.) | .40mm (.016 in.)    |
| Front Cap Material                                                                                | PBTP                | PBTP             | PBTP                | PBTB                | PBTB             | PBTB                |
| Housing Material                                                                                  | Nickel Plated Brass | Trogamid T       | Nickel Plated Brass | Nickel Plated Brass | Trogamid T       | Nickel Plated Brass |

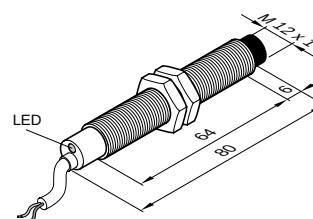
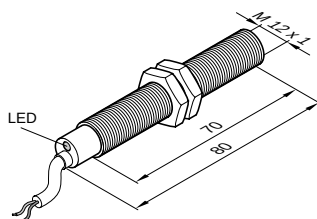
#### Nickel Plated Brass Housings

##### 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 non-metallic locknuts for Trogamid T housings and Nickel Plated (BN) locknuts for Nickel Plated Brass housings.

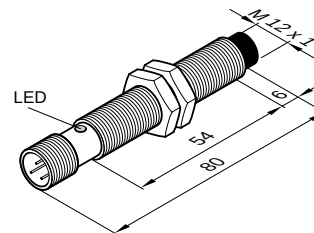
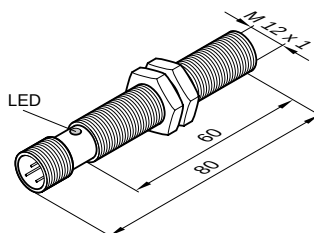


#### Trogamid T Housings



##### 68 Style Connectors

3-pin, Micro style, 12mm (.47 in.) supplied with Brass, Nickel Plated (BN) locknuts.



## Metric/in. Conversion Table

|                    |                    |
|--------------------|--------------------|
| 1.0 mm = .04 in.   | 60.0 mm = 2.36 in. |
| 6.0 mm = .23 in.   | 64.0 mm = 2.52 in. |
| 8.0 mm = .31 in.   | 70.0 mm = 2.75 in. |
| 12.0 mm = .47 in.  | 80.0 mm = 3.15 in. |
| 54.0 mm = 2.12 in. |                    |

This table converts millimeters to inches in reference to the illustrations included on these pages

## Accessories

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

68 Connector 8000-5130 PVC Straight  
68 Connector 8000-5140 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

## M18 Flush Mount

5mm (0.2 in.)

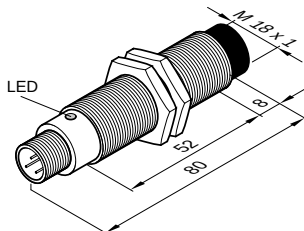
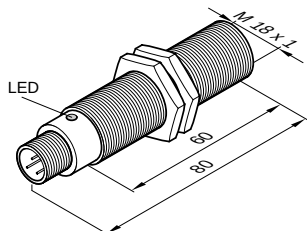
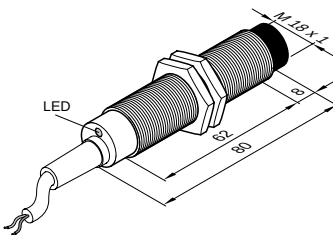
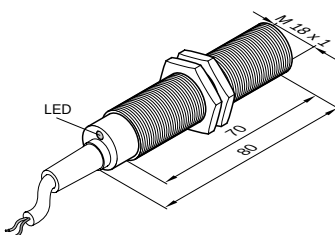
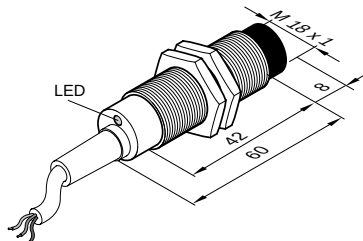
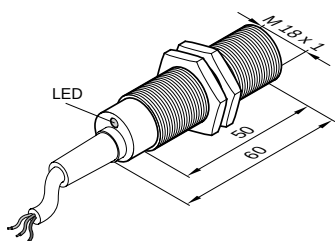
| Cable               | Cable           | 68                  |
|---------------------|-----------------|---------------------|
| 9921-1200           | 9921-2000       | 9921-1268           |
| 9921-1300           | 9921-2100       | 9921-1368           |
| 20V - 250V          | 20V - 250V      | 20V - 250V          |
| 50/60Hz             | 50/60Hz         | 50/60Hz             |
| 2 mA                | 2 mA            | 2 mA                |
| 500 mA              | 500 mA          | 500 mA              |
| ≤5V                 | ≤5V             | ≤5V                 |
| ≤2mA                | ≤2mA            | ≤2mA                |
| 8A                  | 8A              | 8A                  |
| 15Hz                | 15Hz            | 15Hz                |
| ≤15%                | ≤15%            | ≤15%                |
| ≤10%                | ≤10%            | ≤10%                |
| .50mm (.02 in.)     | .50mm (.02 in.) | .50mm (.02 in.)     |
| PBTB                | PBTB            | PBTB                |
| Nickel Plated Brass | Trogamid T      | Nickel Plated Brass |

## M18 Non-Flush Mount

8mm (0.3 in.)

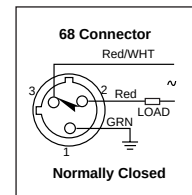
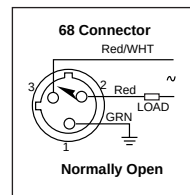
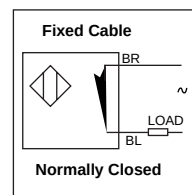
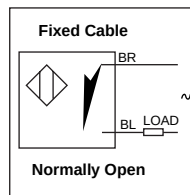
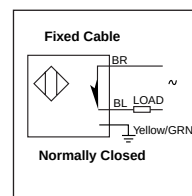
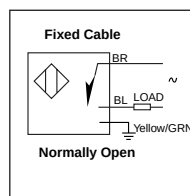
| Cable               | Cable           | 68                  |
|---------------------|-----------------|---------------------|
| 9921-1500           | 9921-2200       | 9921-1568           |
| 9921-1700           | 9921-2300       | 9921-1768           |
| 20V - 250V          | 20V - 250V      | 20V - 250V          |
| 50/60Hz             | 50/60Hz         | 50/60Hz             |
| 2 mA                | 2 mA            | 2 mA                |
| 500 mA              | 500 mA          | 500 mA              |
| ≤5V                 | ≤5V             | ≤5V                 |
| ≤2mA                | ≤2mA            | ≤2mA                |
| 8A                  | 8A              | 8A                  |
| 15Hz                | 15Hz            | 15Hz                |
| ≤15%                | ≤15%            | ≤15%                |
| ≤10%                | ≤10%            | ≤10%                |
| .8mm (.039 in.)     | .8mm (.039 in.) | .8mm (.039 in.)     |
| PBTB                | PBTB            | PBTB                |
| Nickel Plated Brass | Trogamid T      | Nickel Plated Brass |

Note: Sensor dimensions in mm.



## Wiring Diagrams

Note: Wire colors are applicable to cable purchased from Altech



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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