

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

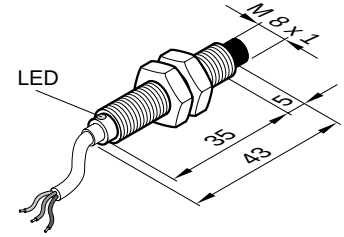
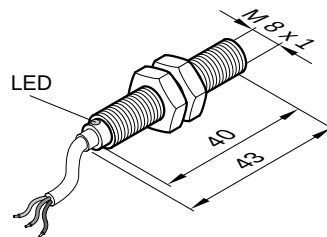
- **Most complete range of Fixed Cable and Quick Disconnect Styles**
- **Available in normally open (N.O.) and normally closed (N.C.) output configuration**
- **Industry standard 10-30V DC operating voltage and 200mA output current**
- **Carries $\text{C}\epsilon$ mark**

- 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)

M8 Flush Mount					M8 Non-Flush Mount					
Sensing Distance		1.5mm (.06 in.)			2mm (.08 in.)					
Cable or Connector Style Cat. No.			Cable	63	64	65	Cable	63	64	65
PNP	Normally Open		9961-0200	9961-0263	9961-0264	9961-0265	9961-0400	9961-0463	9961-0464	9961-0465
	Normally Closed		9961-4400		9961-4464	9961-4465	9961-4600		9961-4664	9961-4665
NPN	Normally Open		9961-0300	9961-0363	9961-0364	9961-0365	9961-0500	9961-0563	9961-0564	9961-0565
	Normally Closed		9961-4500		9961-4564	9961-4565	9961-4700		9961-4764	9961-4765
Ripple Voltage			≤10%	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Voltage Range			10V-30V	10V - 30V	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	≤10 mA	≤10 mA
Max. Load Current			200 mA	200 mA	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	≤2.4V	≤2.4V
Max. Leakage Current			≤10 μA	≤10 μA	≤10 μA	≤10 μA	≤10 μA	≤10 μA	≤10 μA	≤10 μA
Switching Frequency			2000 Hz	2000 Hz	2000 Hz	2000 Hz	2000 Hz	2000 Hz	2000 Hz	2000 Hz
Hysteresis			≤15%	≤15%	≤15%	≤15%	≤15%	≤15%	≤15%	≤15%
Temperature Drift			≤10%	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Repeatability			.15mm (.006 in.)	.15mm (.006 in.)	.15mm (.006 in.)	.15mm (.006 in.)	.20mm (.008 in.)	.20mm (.008 in.)	.20mm (.008 in.)	.20mm (.008 in.)
Front Cap Material			PBTP	PBTP	PBTP	PBTP	PBTP	PBTP	PBTP	PBTP

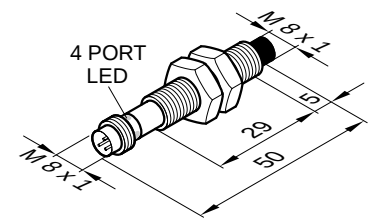
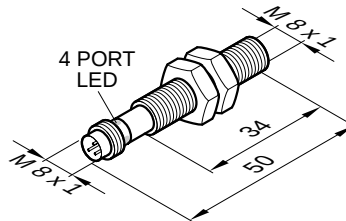
Fixed Cable

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. Non-metallic locknuts for M8 and Brass, Nickel Plated (BN) locknuts for M12 through M30.



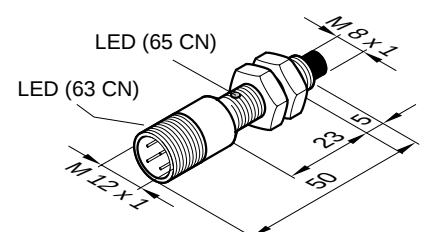
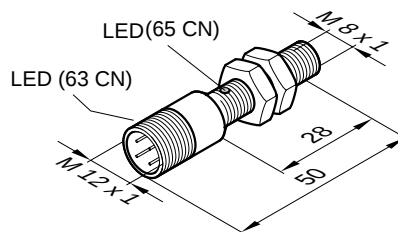
64 Style Connector

3-pin, Pico style, 8mm (.31 in.) supplied with non-metallic locknuts for M8 and Brass, Nickel Plated (BN) locknuts for M12 through M30.



63 and 65 Style Connectors

4-pin, Micro style, 12mm (.47 in.) supplied with Non-metallic locknuts for M8 and Brass, Nickel Plated (BN) locknuts for M12 through M30. The 63 Connector is clear, offering 360° LED viewing.



Metric/in. Conversion Table

1.0 mm = .04 in.	29.0 mm = 1.14 in.
5.0 mm = .20 in.	34.0 mm = 1.34 in.
6.0 mm = .23 in.	35.0 mm = 1.37 in.
8.0 mm = .31 in.	40.0 mm = 1.57 in.
12.0 mm = .47 in.	43.0 mm = 1.69 in.
23.0 mm = .90 in.	50.0 mm = 1.47 in.
28.0 mm = 1.10 in.	60.0 mm = 2.36 in.

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

M12 Flush Mount

2mm (.08 in.)

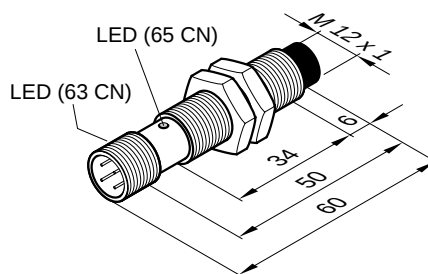
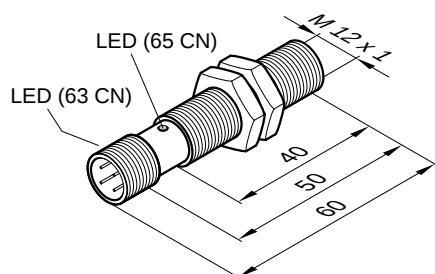
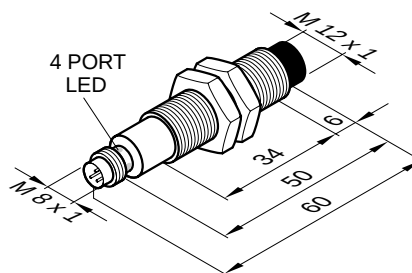
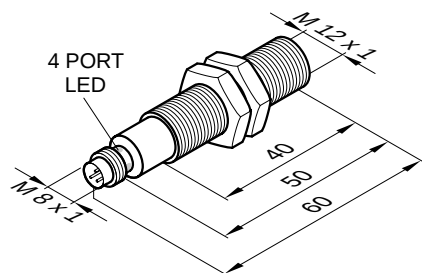
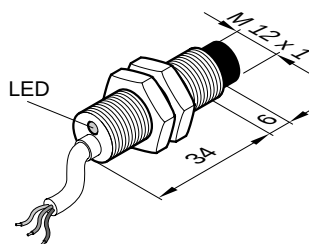
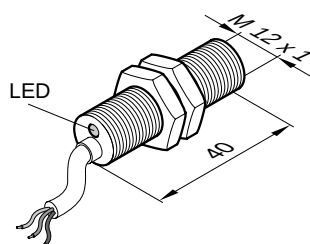
Cable	63	64	65
9962-4000	9962-4063	9962-4064	9962-4065
9962-4400		9962-4464	9962-4465
9962-4100	9962-4163	9962-4164	9962-4165
9962-4500		9962-4564	9962-4565
≤10%	≤10%	≤10%	≤10%
10V - 30V	10V - 30V	10V - 30V	10V - 30V
≤10 mA	≤10 mA	≤10 mA	≤10 mA
200 mA	200 mA	200 mA	200 mA
≤2.4V	≤2.4V	≤2.4V	≤2.4V
≤10 μA	≤10 μA	≤10 μA	≤10 μA
2000 Hz	2000 Hz	2000 Hz	2000 Hz
≤15%	≤15%	≤15%	≤15%
≤10%	≤10%	≤10%	≤10%
.20mm (.008in.)	.20mm (.008in.)	.20mm (.008in.)	.20mm (.008in.)
PBTB	PBTB	PBTB	PBTB

M12 Non-Flush Mount

4mm (.16 in.)

Cable	63	64	65
9962-4200	9962-4263	9962-4264	9962-4265
9962-4600		9962-4664	9962-4665
9962-4300	9961-4363	9962-4364	9962-4365
9962-4700		9962-4764	9962-4765
≤10%	≤10%	≤10%	≤10%
10V - 30V	10V - 30V	10V - 30V	10V - 30V
≤10 mA	≤10 mA	≤10 mA	≤10 mA
200 mA	200 mA	200 mA	200 mA
≤2.4V	≤2.4V	≤2.4V	≤2.4V
≤10 μA	≤10 μA	≤10 μA	≤10 μA
1000 Hz	1000 Hz	1000 Hz	1000 Hz
≤15%	≤15%	≤15%	≤15%
≤10%	≤10%	≤10%	≤10%
.40mm (.016in.)	.40mm (.016in.)	.40mm (.016in.)	.40mm (.016in.)
PBTB	PBTB	PBTB	PBTB

Note: Sensor dimensions in mm.



Accessories

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

64 Connector	8000-5220	PVC, Straight
64 Connector	8000-5230	PVC, Right Angle, 2LED, PNP
64 Connector	8000-5240	PVC, Right Angle, 2LED, NPN

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

Refer to pages 116-121 for more cable information

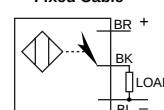
Mounting Brackets - See Pages 114-115

Wiring Diagrams

Note: Wire colors are applicable to cable purchased from Altech

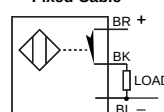
PNP

Fixed Cable



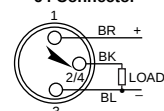
Normally Open

Fixed Cable



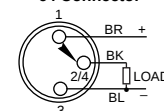
Normally Closed

64 Connector



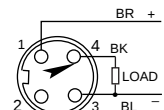
Normally Open

64 Connector



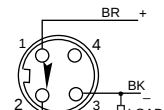
Normally Closed

63/65 Connector



Normally Open

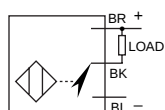
63/65 Connector



Normally Closed

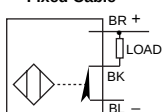
NPN

Fixed Cable



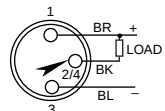
Normally Open

Fixed Cable



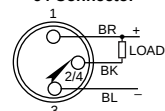
Normally Closed

64 Connector



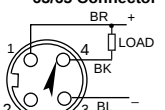
Normally Open

64 Connector



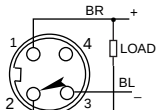
Normally Closed

63/65 Connector



Normally Open

65 Connector



Normally Closed

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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