





**DC - 3 WIRE – GL SERIES**  
**Brass, Nickel Plated (BN),**  
**Cylindrical, Threaded,**  
**10-60V DC, 400mA,**  
**2 LED's for Operating Voltage**  
**and Output Energized**

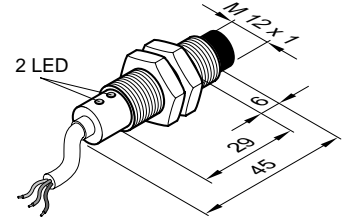
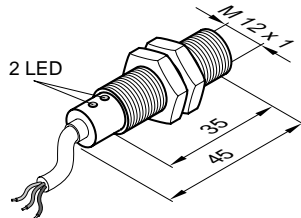
- **Higher Current Output**
- **Higher Voltage Range**
- **Carries  $\text{C}\epsilon$  mark**

- 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)

M12 Flush Mount 2mm (.08 in.)				M12 Non-Flush Mount 4mm (.16 in.)			
Sensing Distance							
Cable or Connector Style Cat. No.		Cable	64	65	Cable	64	65
<b>PNP</b>	Normally Open 	9982-4000	9982-4064	9982-4065	9982-4200	9984-4264	9982-4265
	Normally Closed 	9982-4400	9982-4464	9982-4465	9982-4600	9982-4664	9982-4665
<b>NPN</b>	Normally Open 	9982-4100	9982-4164	9982-4165	9982-4300	9982-4364	9982-4365
	Normally Closed 	9982-4500	9982-4564	9982-4565	9982-4700	9982-4764	9982-4765
Ripple Voltage		≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Voltage Range		10V - 60V	10V - 60V	10V - 60V	10V - 60V	10V - 60V	10V - 60V
Supply Current		≤10 mA	≤10 mA	≤10 mA	≤10 mA	≤10 mA	≤10 mA
Max. Load Current		400 mA	400 mA	400 mA	400 mA	400 mA	400 mA
Voltage Drop Across Sensor		≤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
Switching Frequency		2000Hz	2000Hz	2000Hz	1000Hz	1000Hz	1000Hz
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	PBTP	PBTP	PBTP

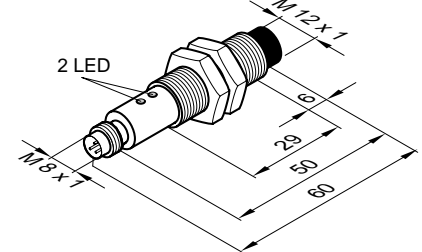
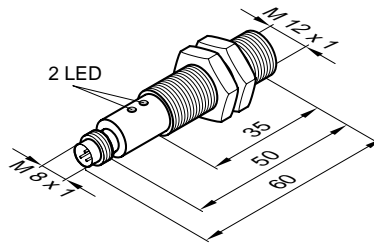
**Fixed Cable**

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. Supplied with Brass, Nickel Plated (BN) locknuts.



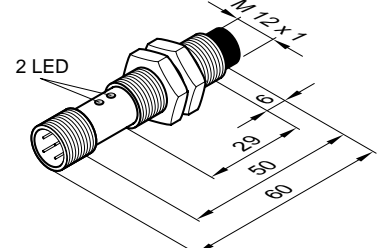
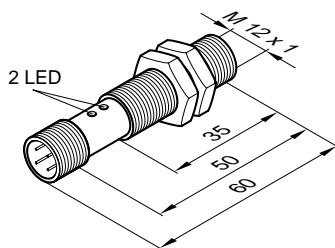
**64 Style Connector**

3-pin, Pico style, 8mm (.31 in.) supplied with Brass, Nickel Plated (BN) locknuts.



**65 Style Connectors**

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



### Metric/in. Conversion Table

1.0 mm = .04 in.	29.0 mm = 1.14 in.	This table converts millimeters to inches in reference to the illustrations included on these pages
6.0 mm = .23 in.	35.0 mm = 1.37 in.	
8.0 mm = .31 in.	45.0 mm = 1.77 in.	
12.0 mm = .47 in.	50.0 mm = 1.97 in.	
18.0 mm = .70 in.	60.0 mm = 2.36 in.	
.27.0 mm = 1.06 in.	80.0 mm = 3.15 in.	

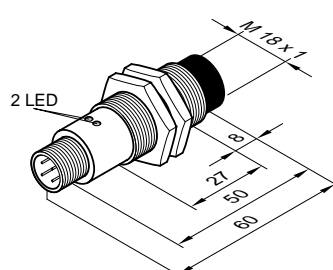
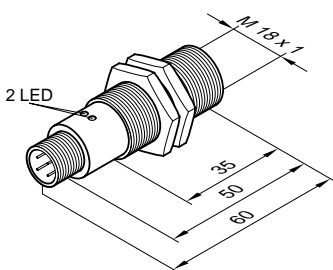
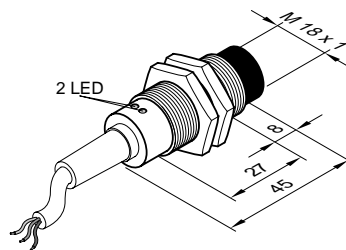
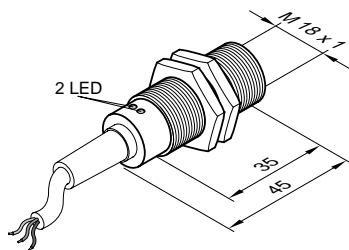
### M18 Flush Mount 5mm (.20 in.)

Cable	65
9984-4000	9984-4065
9984-4400	9984-4465
9984-4100	9984-4165
9984-4500	9984-4565
≤10%	≤10%
10V - 60V	10V - 60V
≤10 mA	≤10 mA
400 mA	400 mA
≤2.4V	≤2.4V
≤10 μA	≤10 μA
1000Hz	1000Hz
≤15%	≤15%
≤10%	≤10%
.25mm (.01 in.)	.25mm (.01 in.)
PBTP	PBTP

### M18 Non-Flush Mount 8mm (.31 in.)

Cable	65
9984-4200	9984-4265
9984-4600	9984-4665
9984-4300	9984-4365
9984-4700	9984-4765
≤10%	≤10%
10V - 60V	10V - 60V
≤10 mA	≤10 mA
400 mA	400 mA
≤2.4V	≤2.4V
≤10 μA	≤10 μA
500Hz	500Hz
≤15%	≤15%
≤10%	≤10%
.40mm (.016 in.)	.40mm (.016 in.)
PBTP	PBTP

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, NPN
- 64 Connector 8000-5240 PVC, Right Angle, 2LED, NPN

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

- 65 Connector 8000-5110 PVC, Straight
- 65 Connector 8000-5120 PVC, Right Angle
- 65 Connector 8000-5150 PVC, Right Angle, 2LED, NPN
- 65 Connector 8000-5160 PVC, Right Angle, 2LED, NPN

#### 65 Connectors, 4 PIN - 4 Wire cable (PIN 1, 2, 3, 4) :

- 65 Connector 8000-5280 PVC Right Angle

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

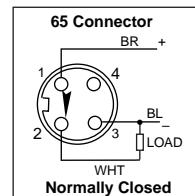
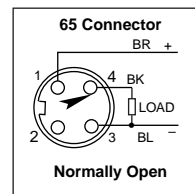
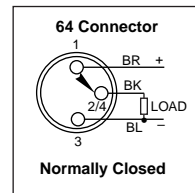
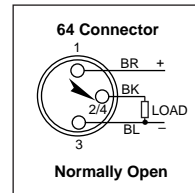
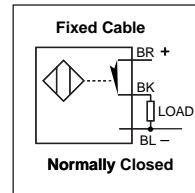
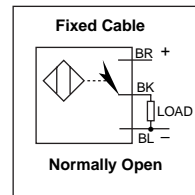
Refer to pages 116-121 for more cable information

Mounting Brackets - see Pages 114-115

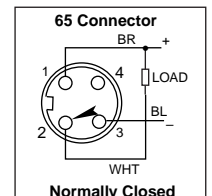
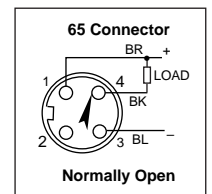
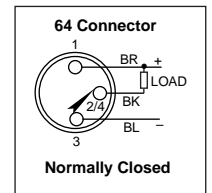
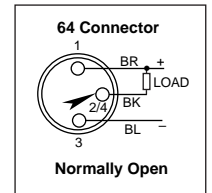
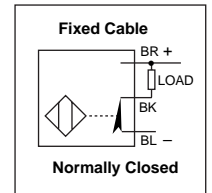
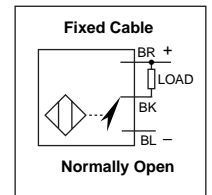
### Wiring Diagrams

Note: Wire colors are applicable on cables purchased from Altech

#### NPN



#### NPN



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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