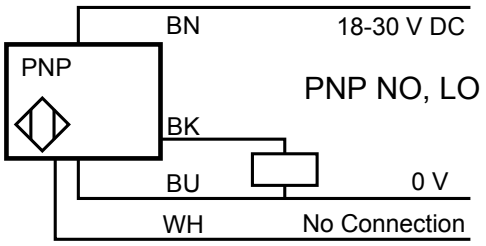
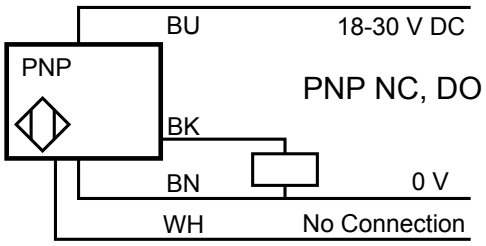
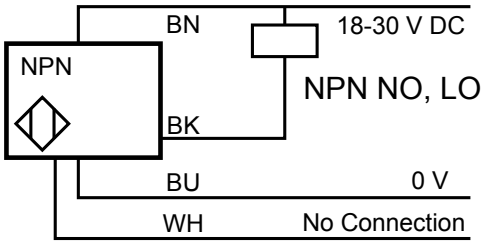
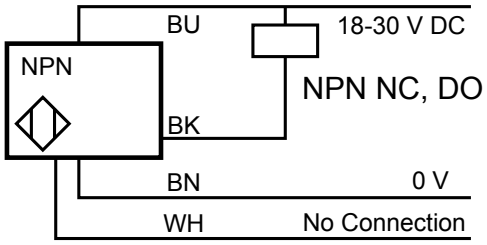
Wiring

Bimodal Output Wiring Diagrams

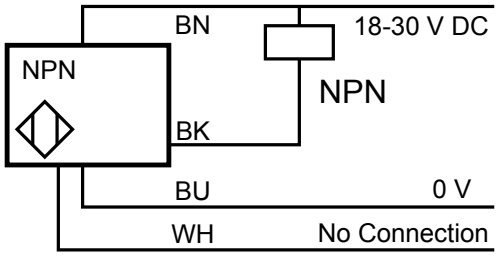


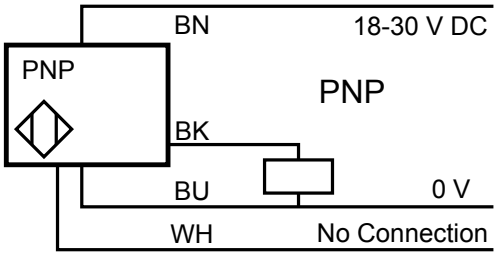




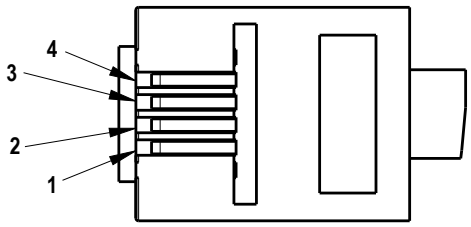


Fixed NPN and PNP Output Wiring Diagrams: Light and Dark Operate by Model Number





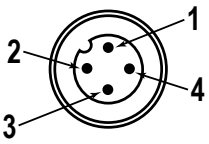
RJ-11 Pinout



RJ-11 Key

1. Brown
2. Black
3. White
4. Blue

M12 Pinout

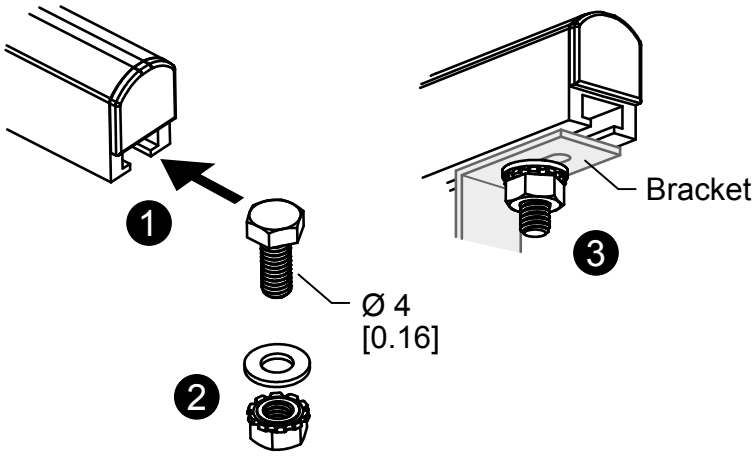


M12 Key

1. Brown
2. White
3. Blue
4. Black

M8 Pinout	M8 Key
	1. Brown 2. White 3. Blue 4. Black

T-Slot Installation



Specifications

Supply Voltage
18 V DC to 30 V DC (24 V nominal with 10% maximum ripple)
Use only with a suitable Class 2 power supply (UL) or SELV power supply (CE)

Supply Current
45 mA

Supply Protection Circuitry
Protected against reverse polarity and transient voltages

Wavelength
Infrared LED, 940 nm

Output Response
1 ms on/off

Output Configuration
Rating: 100 mA max output at 25 °C
Output Voltage High: Greater than Vsupply – 2.5 V
Output Voltage Low: Less than 2.5 V
For loads less than 1 Meg Ohm
Protected against false pulse on power-up and continuous overload or short-circuit of output

Indicators
Amber on: Light sensed

Sensing Mode
Diffuse, Infrared, 940 nm

Range
0 to ≥ 120 mm on 90% white card
0 to ≥ 50 mm on 18% gray card
≤ 3 to ≥ 30 mm on 6% black card

Operating Conditions
–10 °C to +55 °C (+14 °F to +131 °F)

Environmental Rating
IEC IP50

Vibration and Mechanical Shock
All models meet IEC 60068-2-6, IEC 60947-5-2, UL491 Section 40, MIL-STD-202F, Method 201A (Vibration: 10 Hz to 60 Hz, 0.5 mm peak-to-peak)
Shock: 30G 11 ms duration, half sine wave per IEC 60068-2-27

Certifications