
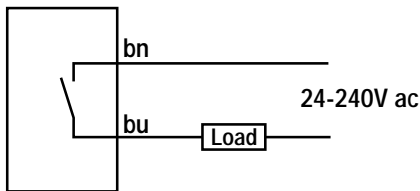


| MINI-BEAM AC Product Specifications |  |
|-------------------------------------|--|
| Supply Voltage and Current          | 24 to 240V ac (50/60 Hz), 250V ac max  |
| Supply Protection Circuitry         | Protected against transient voltages   |
| Output Configuration                | SPST SCR solid-state relay with either normally closed or normally open contact (light/dark operate selectable); 2-wire hookup   |
| Output Rating                       | Minimum load current 5 mA; maximum steady-state load capability 300 mA to 50°C ambient (122°F)<br>100 mA to 70°C ambient (158°F)<br><b>Inrush capability</b> 3 amps for 1 second (non-repetitive); 10 amps for 1 cycle (non-repetitive)<br><b>Off-state leakage current</b> less than 1.7 mA rms<br><b>On-state voltage drop</b> ≤5 volts at 300 mA load, ≤10 volts at 15 mA load                                    |
| Output Protection Circuitry         | Protected against false pulse on power-up  |
| Output Response Time                | 8 milliseconds on and off<br>"OFF" response time specification does not include load response of up to ½ ac cycle (8.3 milliseconds).<br>Response time specification of load should be considered when important.<br>(NOTE: 300 millisecond delay on power-up.)  |
| Repeatability                       | 2.6 milliseconds; Response time and repeatability specifications are independent of signal strength.   |
| Adjustments                         | LIGHT/DARK OPERATE select switch, and 15-turn slotted brass screw GAIN (sensitivity) adjustment potentiometer (clutched at both ends of travel). Both controls are located on rear panel of sensor and protected by a gasketed, clear acrylic cover.   |
| Indicators                          | Red indicator LED on rear of sensor is "ON" when the load is energized   |
| Construction                        | Reinforced VALOX® housing, totally encapsulated, o-ring sealing, acrylic lenses, and stainless steel screws  |
| Environmental Rating                | Meets NEMA standards 1, 2, 3, 3S, 4, 4X, 12, and 13; IEC IP67  |
| Connections                         | PVC-jacketed 2-conductor 2 m (6.5ft) or 9 m (30ft) cables, or 3-pin micro-style quick disconnect (QD) fitting are available. QD cables are ordered separately. See page 8.   |
| Operating Temperature               | <b>Temperature:</b> -20° to +70°C (-4° to +158°F)<br><b>Maximum Relative Humidity:</b> 90% at 50°C (non-condensing)  |
| Application Notes                   | i) ac MINI-BEAMs may be destroyed from overload conditions<br>ii) Use on low voltage requires careful analysis of the load to determine if the leakage current or on-state voltage of the sensor will interfere with proper operation of the load<br>iii) The false-pulse protection feature may cause momentary drop-out of the load when the sensor is wired in series or parallel with mechanical switch contacts |
| Certifications                      |   |

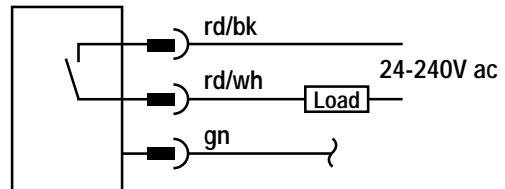
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## MINI-BEAM AC Hookup Diagrams

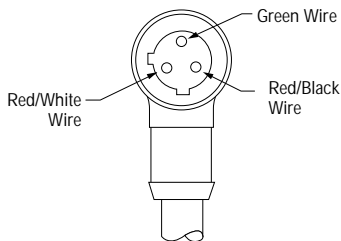
### AC Sensors with Attached Cable



### AC Sensors with Quick Disconnect (3-Pin Micro-Style)



### 3-Pin Micro-Style Pin-out (Cable Connector Shown)



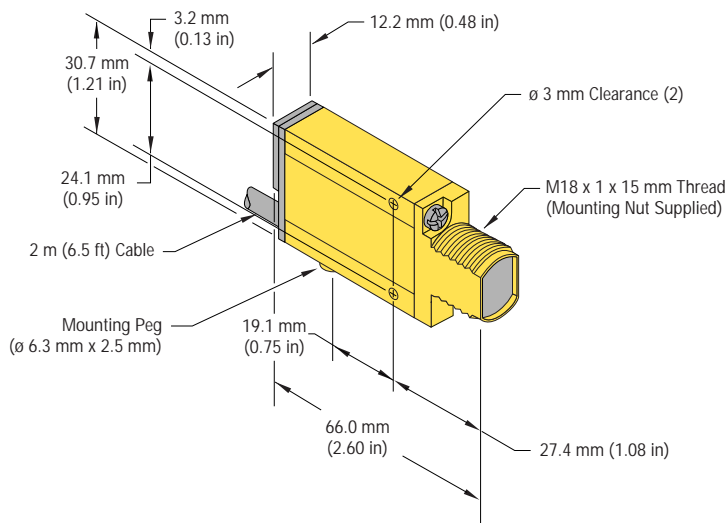
### Quick Disconnect (QD) Option

AC MINI-BEAM sensors are sold with either a 2 m (6.5 ft) or a 9 m (30 ft) attached PVC-covered cable, or with a 3-pin micro-style QD cable fitting.

AC QD sensors are identified by the letters "QD" in their model number suffix. For more information on mating QD cables, see page 8.

## MINI-BEAM Dimension Information

### MINI-BEAM AC Sensor with Integral Cable



### MINI-BEAM AC Sensor with Quick-Disconnect

