

# Rectangular Sensors

## 802PR 2-Wire AC, High Output

### Limit Switch Style



802PR AC  
Cable Style



802PR AC Mini  
Quick-Disconnect Style



802PR AC  
Conduit Style

#### Specifications

Load Current	≤1 A at 40 °C linearly derated to 0.5 A at 75 °C
Inrush Current	≤10 A/1 s
Current Consumption	25 mA, min.
Leakage Current	≤3.5 mA (60...132V AC); ≤6.5 mA (102...132V AC)
Operating Voltage	60...132V AC or 102...132V AC
Voltage Drop	≤8.5V
Repeatability	≤0.025 mm
Hysteresis	15% (max.)
Protection Type	False pulse, transient noise
Certifications	UL Listed, CSA Certified, and CE Marked for all applicable directives
Enclosure Type Rating	NEMA 1, 2, 3, 4, 4X, 12, 13, IP65 (IEC529) ★
Housing Material	Self-extinguishing glass reinforced polyester body
Connection Type	Cable: 2.4 m (8 ft) or 3.7 m (12 ft) length, 2-conductor 16 AWG STO (oil-resistant thermoplastic); Quick-Disconnect: 3-pin mini; Conduit Opening or Conduit Coupler: 1/2-14 NPT internal thread with screw terminals (use #18...14 AWG wire)
LED	Red: Output Energized
Operating Temperature [C (F)]	-25...+75 ° (-13...+167 °)
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm amplitude, 3 planes

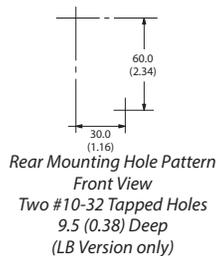
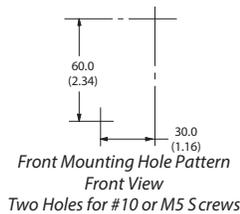
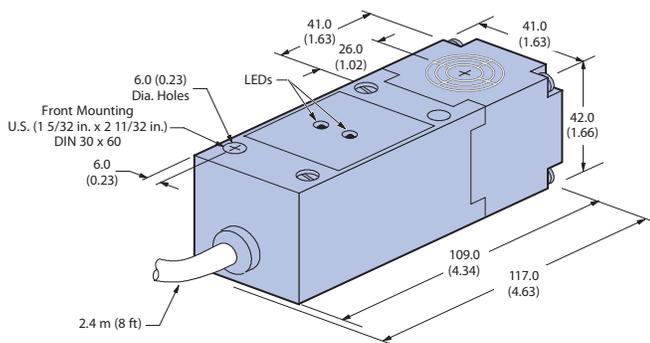
★ NEMA 4X enclosure rating applies only to corrosion-resistant models.

#### Correction Factors

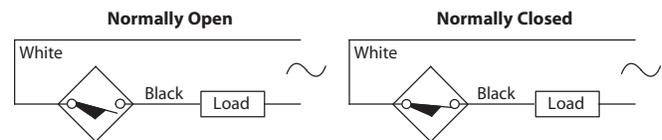
Target Material	Correction Factors
Steel	1.0
Stainless Steel	0.8...0.85
Brass	0.5...0.55
Aluminum	0.45...0.5
Copper	0.4...0.45

#### Approximate Dimensions [mm (in.)]

##### Cable Style



#### Wiring Diagrams

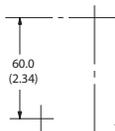
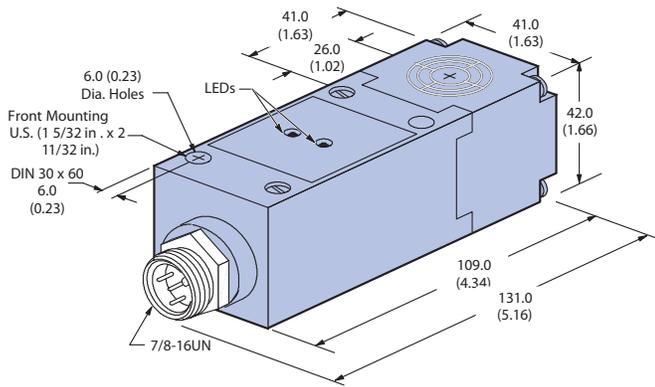


**Note:** Load can be switched to white lead.

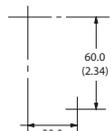
**Note 1:** Side sensing model heads can be turned in 90° increments to accommodate four side sensing positions.  
**Note 2:** Low voltage models have two LEDs.

Approximate Dimensions [mm (in.)]

Mini QD Style



Front Mounting Hole Pattern  
 Front View  
 Two Holes for #10 or M5 Screws

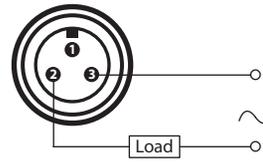


Rear Mounting Hole Pattern  
 Front View  
 Two #10-32 Tapped Holes  
 9.5 (0.38) Deep  
 (LB Version only)

**Note 1:** Side sensing model heads can be turned in 90° increments to accommodate four side sensing positions.  
**Note 2:** Low voltage models have two LEDs.

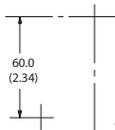
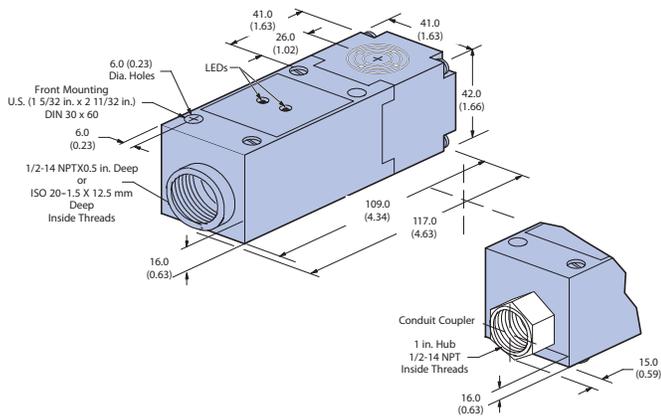
Wiring Diagrams

Normally Open or Normally Closed

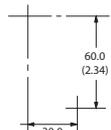


**Note:** Load can be switched to pin 3.

Conduit Style



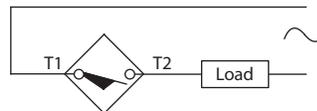
Front Mounting Hole Pattern  
 Front View  
 Two Holes for #10 or M5 Screws



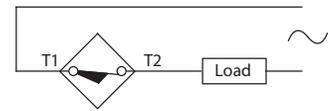
Rear Mounting Hole Pattern  
 Front View  
 Two #10-32 Tapped Holes  
 9.5 (0.38) Deep  
 (LB Version only)

**Note 1:** Side sensing model heads can be turned in 90° increments to accommodate four side sensing positions.  
**Note 2:** Low voltage models have two LEDs.

Normally Open



Normally Closed



**Note:** Load can be switched to terminal 1.

# Rectangular Sensors

## 802PR 2-Wire AC Hazardous Location, High Output Limit Switch Style



802PR AC/DC  
Conduit Style

### Specifications

Load Current	≤1 A at 40 °C linearly derated to 0.5 A at 75 °C
Inrush Current	≤10 A/1 s
Current Consumption	25 mA, min.
Leakage Current	≤6.5 mA
Operating Voltage	102...132V AC
Voltage Drop	≤8.5V
Repeatability	≤0.025 mm
Hysteresis	15% (max.)
Protection Type	False pulse, transient noise
Certifications	UL Listed and CSA Certified
Enclosure Type Rating	NEMA 1, 2, 3, 4, 12, 13; IP65 (IEC529) Division 2 Class I: Groups A, B, C & D; Class II: Groups F & G; Class III: All groups
Housing Material	Self-extinguishing glass reinforced polyester body
Connection Type	Conduit Coupler: 1/2 -14NPT internal thread with screw terminals (use #18...14 AWG wire)
LED	Red: Output Energized
Operating Temperature [C (F)]	-25...+75 ° (-13...+167 °)
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm amplitude, 3 planes

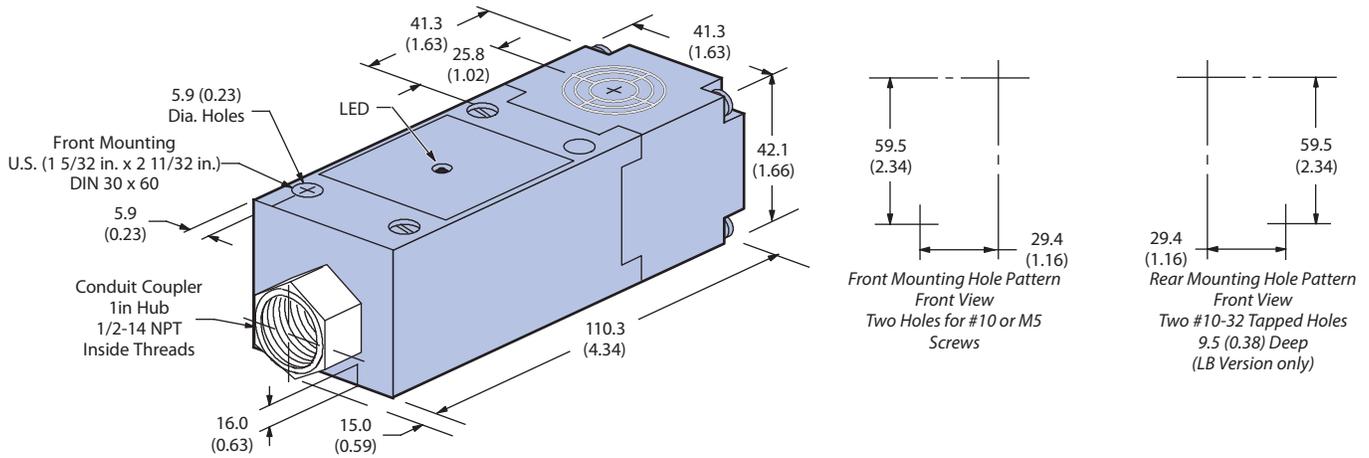
### Correction Factors

Target Material	Correction Factors
Steel	1.0
Stainless Steel	0.8...0.85
Brass	0.5...0.55
Aluminum	0.45...0.5
Copper	0.4...0.45

# Rectangular Sensors 802PR 2-Wire AC Hazardous Location, High Output Limit Switch Style

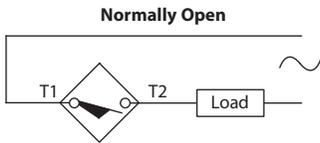
## Approximate Dimensions [mm (in.)]

### Conduit Style



**Note:** Side sensing model heads can be turned in 90° increments to accommodate four side sensing positions.

## Wiring Diagrams



**Note:** Load can be switched to terminal 1.

# Rectangular Sensors

## 802PR 2-Wire AC/DC

### Limit Switch Style



802PR AC/DC  
Cable Style



802PR AC/DC Mini  
Quick-Disconnect Style



802PR AC/DC Micro  
Quick-Disconnect Style



802PR AC/DC  
Conduit Style

#### Specifications

Load Current	AC 4...25 mA; DC 2...25 mA
Leakage Current	≤1.7 mA at 132V, ≤2.5 mA at 250V
Operating Voltage	20...250V AC/DC
Voltage Drop	≤10V
Repeatability	≤10% typical
Hysteresis	≤10% typical
Protection Type	Transient noise, short circuit, overload, false pulse, radio frequency (10V per meter; frequency range 20...1000 MHz)
Certifications	UL Listed, CSA Certified, and CE Marked for all applicable directives
Enclosure Type Rating	NEMA 1, 2, 3, 4, 4X, 12, 13, IP65 (IEC529) ★
Housing Material	Self extinguishing glass-reinforced polyester body
Connection Type	Cable: 2.4 m (8 ft) length, 2-conductor ToughLink; Quick-Disconnect: 3-pin micro style, 3-pin mini style; Conduit Opening or Conduit Coupler: Internal thread with screw terminals (use #18...14 AWG wire)
LED	Green: Power; Red: Output energized (both on in SCP/Overload)
Operating Temperature [C (F)]	-25...+75 ° (-13...+167 °)
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm amplitude, 3 planes

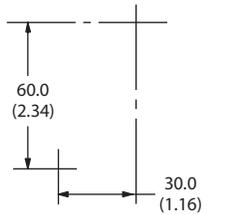
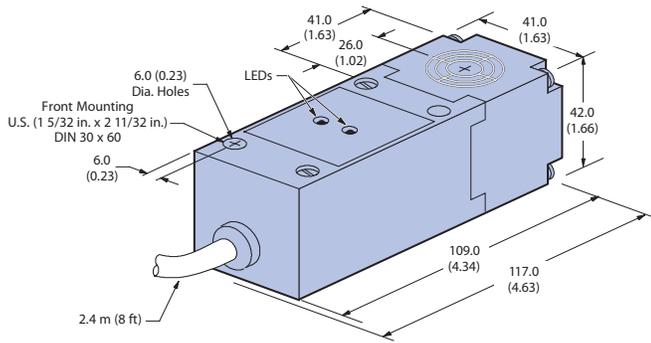
★ NEMA 4X enclosure rating applies only to corrosion-resistant models.

#### Correction Factors

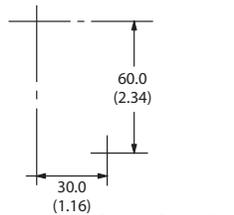
Target Material	Correction Factors
Steel	1.0
Stainless Steel	0.9
Brass	0.8
Aluminum	0.75
Copper	0.7

Approximate Dimensions [mm (in.)]

Cable Style

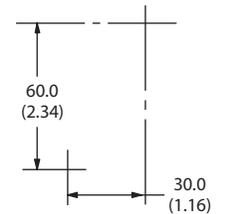
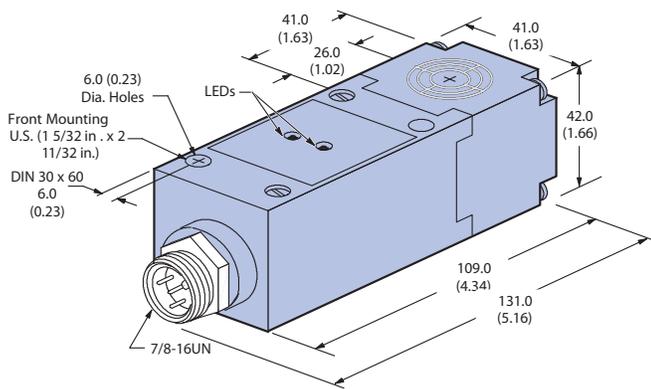


Front Mounting Hole Pattern Front View  
 Two Holes for #10 or M5 Screws

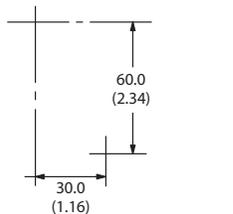


Rear Mounting Hole Pattern Front View  
 Two #10-32 Tapped Holes 9.5 (0.38) Deep (LB Version only)

Mini QD Style

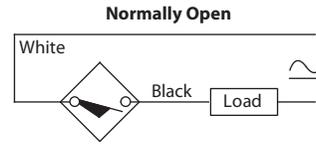


Front Mounting Hole Pattern Front View  
 Two Holes for #10 or M5 Screws

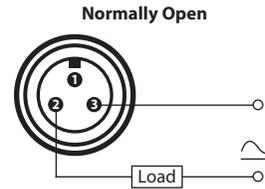


Rear Mounting Hole Pattern Front View  
 Two #10-32 Tapped Holes 9.5 (0.38) Deep (LB Version only)

Wiring Diagrams



**Note:** Load can be switched to white lead.



**Note:** Load can be switched to pin 3.

# Rectangular Sensors

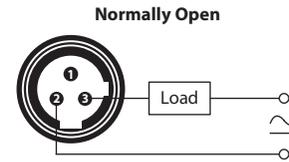
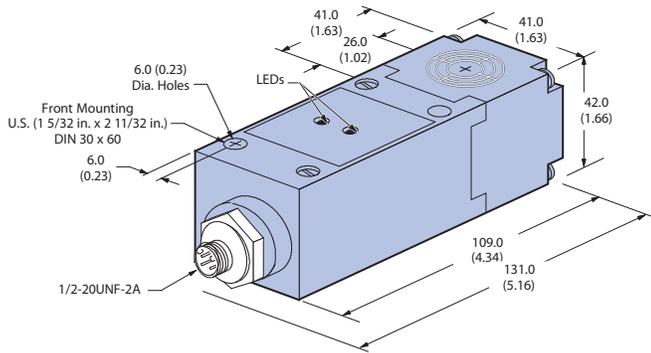
## 802PR 2-Wire AC/DC

### Limit Switch Style

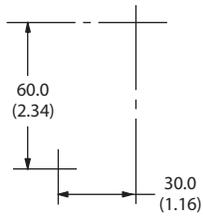
#### Approximate Dimensions [mm (in.)]

#### Wiring Diagrams

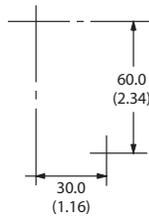
#### Micro QD Style



**Note:** Load can be switched to pin 2.

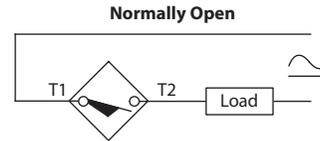
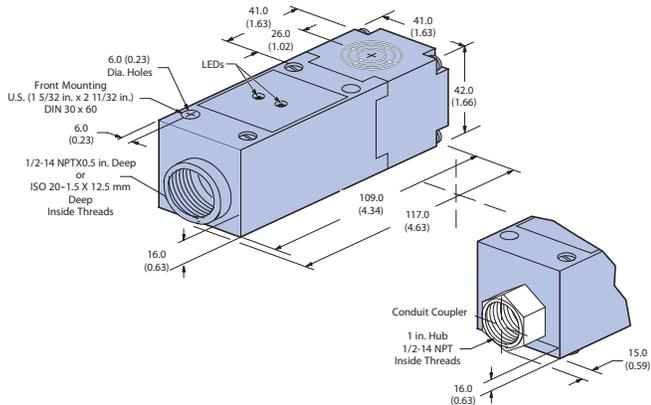


Front Mounting Hole Pattern Front View  
Two Holes for #10 or M5 Screws

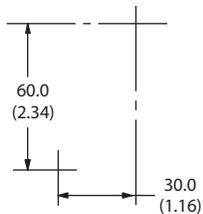


Rear Mounting Hole Pattern Front View  
Two #10-32 Tapped Holes 9.5 (0.38) Deep (LB Version only)

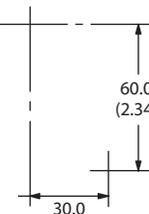
#### Conduit Style



**Note:** Load can be switched to terminal 1.



Front Mounting Hole Pattern Front View  
Two Holes for #10 or M5 Screws



Rear Mounting Hole Pattern Front View  
Two #10-32 Tapped Holes 9.5 (0.38) Deep (LB Version only)

**Note:** Side sensing model heads can be turned in 90° increments to accommodate four side sensing positions.



802PR AC  
 Conduit Style

**Specifications**

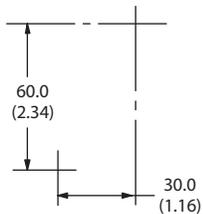
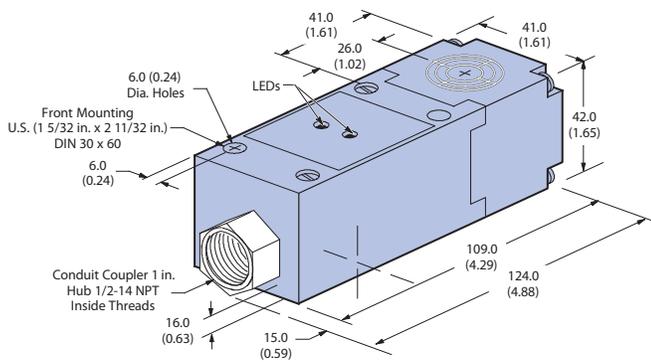
Load Current	AC: 4...25 mA, DC: 2...25 mA
Leakage Current	≤1.7 mA at 132V, ≤2.5 mA at 250V
Operating Voltage	20...250V AC/DC
Voltage Drop	≤10V
Repeatability	≤10% typical
Hysteresis	≤10% typical
Protection Type	Transient noise, short circuit, overload, false pulse, radio frequency (≤10V per meter; frequency range 20...1000 MHz)
Certifications	UL Listed and CSA Certified
Enclosure Type Rating	NEMA 1, 2, 3, 4, 12, 13; IP65 (IEC529); Division 2 Class I: Groups A, B, C & D; Class II: Groups F & G; Class III: All groups
Housing Material	Self-extinguishing glass-reinforced polyester body
Connection Type	Conduit Coupler: 1/2 - 14 NPT internal thread with screw terminals, use #18...14 AWG wire
LED	Green: Power, Red: Output energized (both on in SCP/Overload)
Operating Temperature [C (F)]	-25...+75 ° (-13...+167 °)
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm amplitude, 3 planes

**Correction Factors**

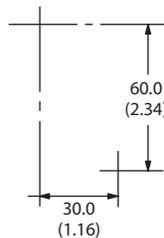
Target Material	Correction Factors
Steel	1.0
Stainless Steel	0.9
Brass	0.8
Aluminum	0.75
Copper	0.7

**Approximate Dimensions [mm (in.)]**

**Conduit Style**

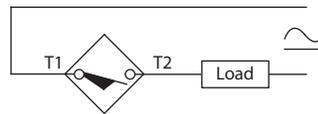


Front Mounting Hole Pattern Front View  
 Two Holes for #10 or M5 Screws



Rear Mounting Hole Pattern Front View  
 Two #10-32 Tapped Holes 9.5 (0.38) Deep (LB Version only)

**Wiring Diagrams**



**Note:** Load can be switched to terminal 1.

**Note:** Side-sensing model heads can be turned in 90° increments to accommodate four side-sensing positions.