



### Description

Bulletin 802PR inductive proximity sensors are self-contained, 2-wire devices designed to detect the presence of ferrous and nonferrous metal objects without touching them. Types LA and XA are high-output AC models designed to switch current loads up to 1 A, while types LB and XB are AC/DC solid-state switches made to interface directly with programmable controllers.❶

Each sensor is housed in a self-extinguishing glass-reinforced polyester body. Special hazardous location models are available which meet Division 2 enclosure standards in Classes I, II, and III (see specifications). Switch constructions include top and side sensing models. The side-sensing head can be rotated in 90-degree increments to sense in four directions. These devices are available with a threaded conduit opening, conduit coupler, 3-pin mini connector, 3-pin micro connector, or pre-wired cable.

### Features

- Multiple sensing directions
- Cable, conduit, or quick-disconnect styles
- Short circuit protection (AC/DC models)
- Overload protection (AC/DC models)
- Transient noise protection
- False pulse protection
- Hazardous location models are available
- UL listed, CSA certified, and CE marked for all applicable directives

### Styles

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|---|------------|
| AC/DC 2-Wire . . . . .                                | page 2–150 |
| Hazardous Location<br>AC/DC 2-Wire . . . . .          | page 2–155 |
| AC 2-Wire High-Output . . .                           | page 2–157 |
| Hazardous Location AC<br>2-Wire High-Output . . . . . | page 2–161 |

### Accessories

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| Quick-Disconnect Cables . . . | page 5–1 |
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### General Information

|  |           |
|--|-----------|
| Metric/English<br>Conversion Chart . . . . . | page 11–1 |
|--|-----------|

❶ High-output models should not be used in solid-state switching, TTL, or programmable controller operations.



802PR AC/DC  
Cable Style  
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802PR AC/DC Mini  
Quick-Disconnect Style  
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802PR AC/DC Micro  
Quick-Disconnect Style  
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802PR AC/DC  
Conduit Style  
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**Specifications**

|                                   |   |
|-----------------------------------|---|
| <b>Load Current</b>               | AC 4–25mA; DC 2–25mA  |
| <b>Leakage Current</b>            | ≤1.7mA at 132V, ≤2.5mA at 250V  |
| <b>Operating Voltage</b>          | 20–250V AC/DC   |
| <b>Voltage Drop</b>               | ≤10V  |
| <b>Repeatability</b>              | ≤10% typical  |
| <b>Hysteresis</b>                 | ≤10% typical  |
| <b>Transient Noise Protection</b> | Incorporated  |
| <b>Short Circuit Protection</b>   | Incorporated  |
| <b>Overload Protection</b>        | Incorporated  |
| <b>False Pulse Protection</b>     | Incorporated  |
| <b>Radio Frequency Protection</b> | 10V per meter; Frequency range 20–1000 MHz  |
| <b>Approvals</b>                  | UL listed, CSA certified, and CE marked for all applicable directives   |
| <b>Enclosure</b>                  | NEMA 1, 2, 3, 4, 4X <sup>①</sup> , 12, 13, IP65 (IEC 529)<br>Self extinguishing glass-reinforced polyester body   |
| <b>Connections</b>                | Cable: 2.4m (8ft) length<br>2-conductor ToughLink™<br>Quick-Disconnect: 3-pin micro style<br>3-pin mini style<br><br>Conduit Opening or<br>Conduit Coupler: Internal thread with screw terminals<br>(use #18–14 AWG wire) |
| <b>LEDs</b>                       | Green: Power; Red: Output energized (both on in SCP/Overload)   |
| <b>Operating Temperature</b>      | –25°C to +75°C (–13°F to +167°F)  |
| <b>Shock</b>                      | 30g, 11ms   |
| <b>Vibration</b>                  | 55Hz, 1mm amplitude, 3 planes   |

① Corrosion resistant models

**Features**

- 2-wire operation
- 2-conductor or 3-pin connection
- 20–250V AC/DC (for solid state inputs)
- Normally open output
- Short circuit, overload, false pulse, RFI and transient noise protection
- Corrosion resistant models
- 2 LEDs
- UL listed, CSA certified, and CE marked for all applicable directives

**Correction Factors**

| Target Material | Correction Factor |
|-----------------|-------------------|
| Steel           | 1.0               |
| Stainless Steel | 0.9               |
| Brass           | 0.8               |
| Aluminum        | 0.75              |
| Copper          | 0.7               |

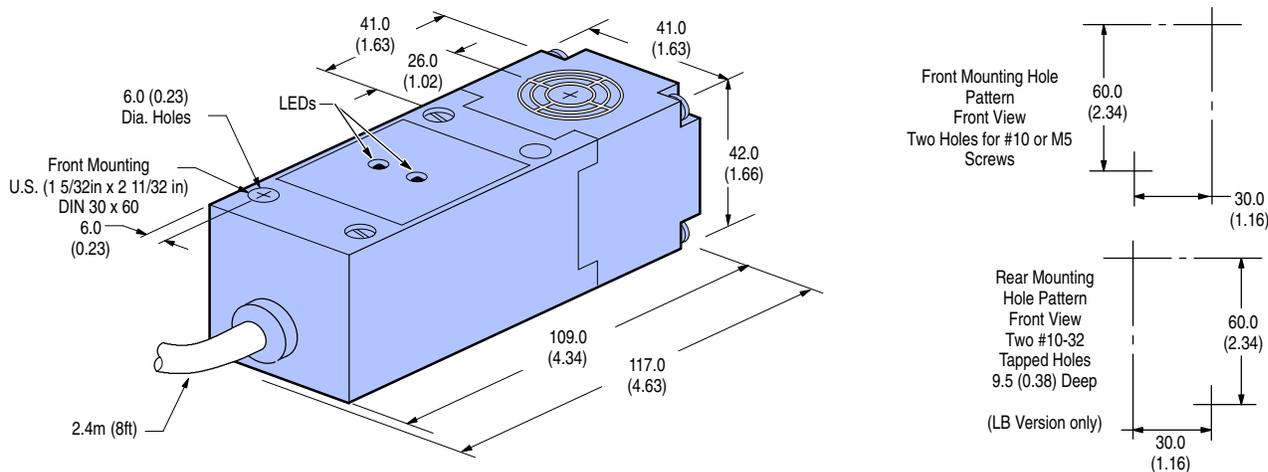
**Selection Guide**

| Sensing Direction | Nominal Sensing Distance<br>mm (inches) | Shielded | Output Configuration | Switching Frequency (Hz) | Cable Length<br>m (ft) | Corrosion Resistant | Catalog Number<br>Cable Style |
|-------------------|---|----------|----------------------|--------------------------|------------------------|---------------------|-------------------------------|
| Side              | 17 (0.67)                               | Y        | N.O.                 | 20                       | 2.5 (8)                | Y                   | 802PR-XBAM1-08                |
|                   |   |          |                      |                          |                        | N                   | 802PR-LBAM1-08                |
|                   |   |          |                      |                          | 3.6 (12)               | Y                   | 802PR-XBAM1-12                |
|                   |   |          |                      |                          |                        | N                   | 802PR-LBAM1-12                |
| Top               | 17 (0.67)                               | Y        | N.O.                 | 20                       | 2.5 (8)                | Y                   | 802PR-XBAR1-08                |
|                   |   |          |                      |                          |                        | N                   | 802PR-LBAR1-08                |
|                   |   |          |                      |                          | 3.6 (12)               | Y                   | 802PR-XBAR1-12                |
|                   |   |          |                      |                          |                        | N                   | 802PR-LBAR1-12                |

**Accessories**

| Description       | Page Number |
|-------------------|-------------|
| Terminal Chambers | 5-19        |

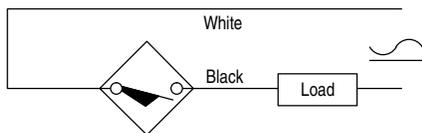
**Dimensions—mm (inches)**



**Note:** Side sensing model heads can be turned in 90° increments to accommodate 4 side sensing positions.

**Wiring Diagram**

**Normally Open**



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

# Inductive Proximity Sensors

## 802PR 2-Wire AC/DC, Mini Quick-Disconnect Style

### Limit Switch Style

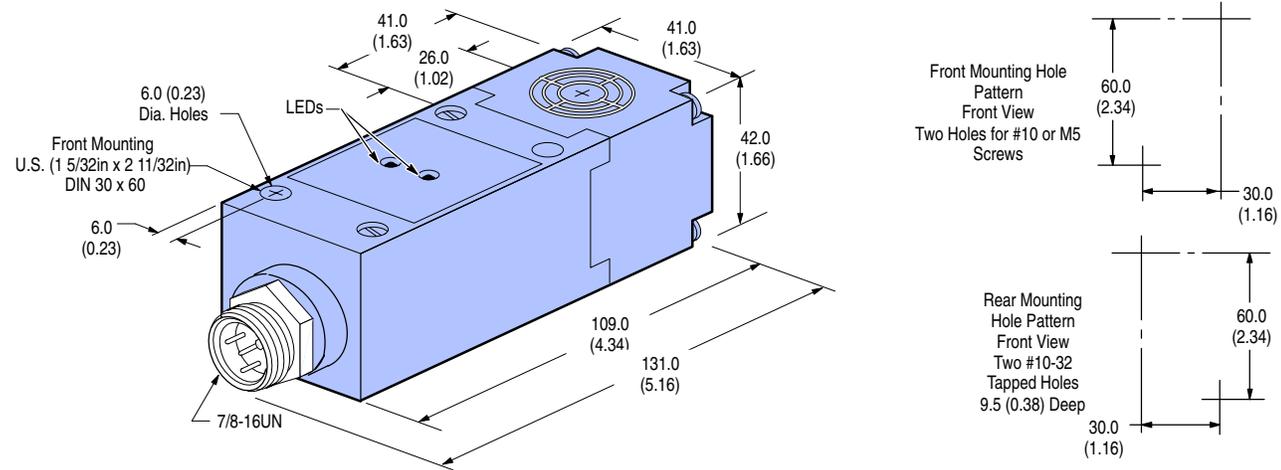
#### Selection Guide

| Sensing Direction   | Nominal Sensing Distance<br>mm (inches) | Shielded | Output Configuration | Switching Frequency (Hz) | Catalog Number<br>Mini QD Style |
|---|---|----------|----------------------|--------------------------|---------------------------------|
| Side  | 17 (0.67)                               | Y        | N.O.                 | 20                       | 802PR-LBAE1                     |
| Top   |   |          |                      |                          | 802PR-LBAK1                     |
| Recommended Standard QD Cordset Required (-6F = 1.8m (6ft)) |   |          |                      |                          | 889N-F3AFC-6F                   |

#### QD Cordsets and Accessories

| Description              | Page Number |
|--------------------------|-------------|
| Other Cordsets Available | 5-8         |
| Terminal Chambers        | 5-19        |

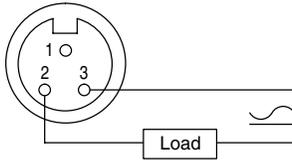
#### Dimensions—mm (inches)



**Note:** Side sensing model heads can be turned in 90° increments to accommodate 4 side sensing positions.

#### Wiring Diagram

##### Normally Open



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

Inductive Proximity Sensors  
**802PR 2-Wire AC/DC, Micro Quick-Disconnect Style**  
 Limit Switch Style

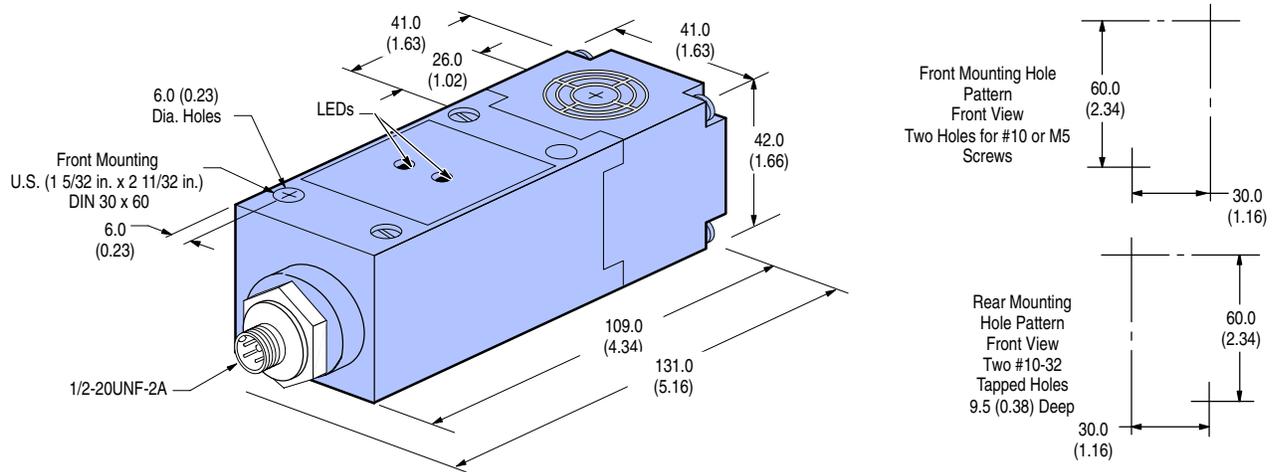
**Selection Guide**

| Sensing Direction  | Nominal Sensing Distance<br>mm (inches) | Shielded | Output Configuration | Switching Frequency (Hz) | Catalog Number<br>Micro QD Style |
|--|---|----------|----------------------|--------------------------|----------------------------------|
| Side   | 17 (0.67)                               | Y        | N.O.                 | 20                       | 802PR-LBAC1                      |
| Top  |   |          |                      |                          | 802PR-LBAF1                      |
| Recommended Standard QD Cordset Required (–2 = 2m (6.5ft)) |   |          |                      |                          | 889R-F3ACA-2                     |

**QD Cordsets and Accessories**

| Description              | Page Number |
|--------------------------|-------------|
| Other Cordsets Available | 5–8         |
| Terminal Chambers        | 5–19        |

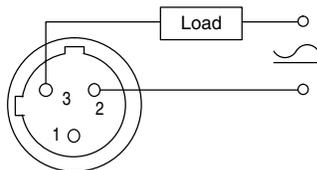
**Dimensions—mm (inches)**



**Note:** Side sensing model heads can be turned in 90° increments to accommodate 4 side sensing positions.

**Wiring Diagram**

**Normally Open**



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

Inductive Proximity Sensors

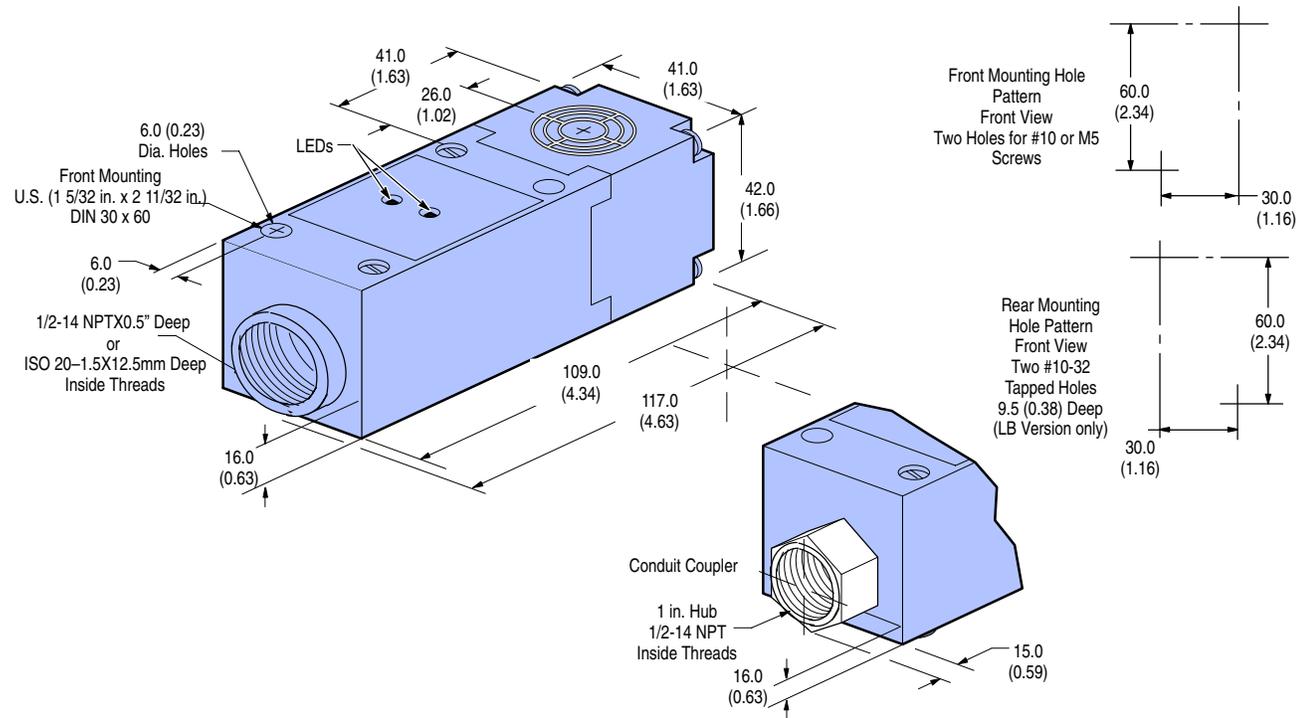
802PR 2-Wire AC/DC, Conduit Style

Limit Switch Style

Selection Guide

| Sensing Direction | Nominal Sensing Distance mm (inches) | Shielded | Output Configuration | Switching Frequency (Hz) | Corrosion Resistant | Connection Type | Catalog Number Conduit Style |
|-------------------|--------------------------------------|----------|----------------------|--------------------------|---------------------|-----------------|------------------------------|
| Side              | 17 (0.67)                            | Y        | N.O.                 | 20                       | Y                   | 1/2"-14NPT      | 802PR-XBAB1                  |
|                   |                                      |          |                      |                          | N                   |                 | 802PR-LBAB1                  |
|                   |                                      |          |                      |                          | Y                   | ISO 20-1.5      | 802PR-XBAB1-S6               |
|                   |                                      |          |                      |                          | N                   |                 | 802PR-LBAB1-S6               |
|                   |                                      |          |                      |                          | N                   | Conduit Coupler | 802PR-LBAA1                  |
| Top               | 17 (0.67)                            | Y        | N.O.                 | 20                       | Y                   | 1/2"-14NPT      | 802PR-XBAH1                  |
|                   |                                      |          |                      |                          | N                   |                 | 802PR-LBAH1                  |
|                   |                                      |          |                      |                          | Y                   | ISO 20-1.5      | 802PR-XBAH1-S6               |
|                   |                                      |          |                      |                          | N                   |                 | 802PR-LBAH1-S6               |
|                   |                                      |          |                      |                          | N                   | Conduit Coupler | 802PR-LBAJ1                  |

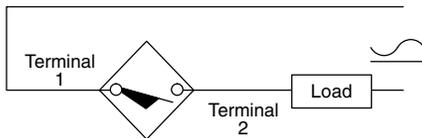
Dimensions—mm (inches)



Note: Side sensing model heads can be turned in 90° increments to accommodate 4 side sensing positions.

Wiring Diagram

Normally Open



Note: Load can be switched to Terminal 1.

Inductive Proximity Sensors  
**802PR 2-Wire AC/DC Hazardous Location**  
 Limit Switch Style



802PR AC/DC  
 Conduit Style  
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**Features**

- 2-wire operation
- 2-terminal connection
- 20–250V AC/DC (for solid state inputs)
- Normally open output
- Short circuit, overload, false pulse, RFI, and transient noise protection
- Hazardous location rating
- 2 LEDs
- UL listed, CSA certified, and Factory Mutual approved

**Specifications**

|                                   |   |
|-----------------------------------|---|
| <b>Load Current</b>               | AC: 4–25mA    DC: 2–25mA  |
| <b>Leakage Current</b>            | ≤1.7mA at 132V, ≤2.5mA at 250V  |
| <b>Operating Voltage</b>          | 20–250V AC/DC   |
| <b>Voltage Drop</b>               | ≤10V  |
| <b>Repeatability</b>              | ≤10% typical  |
| <b>Hysteresis</b>                 | ≤10% typical  |
| <b>Transient Noise Protection</b> | Incorporated  |
| <b>Short Circuit Protection</b>   | Incorporated  |
| <b>Overload Protection</b>        | Incorporated  |
| <b>False Pulse Protection</b>     | Incorporated  |
| <b>Radio Frequency Protection</b> | ≤10V per meter<br>Frequency range 20–1000 MHz   |
| <b>Approvals</b>                  | UL listed, CSA certified, and Factory Mutual approved   |
| <b>Enclosure</b>                  | NEMA 1, 2, 3, 4, 12, 13 IP65 (IEC 529)<br>Division 2<br>Class I:    Groups A, B, C & D;<br>Class II:   Groups F & G;<br>Class III:   All groups<br>Self-extinguishing glass-reinforced polyester body |
| <b>Connection</b>                 | Conduit Coupler: 1/2–14 NPT internal thread with screw terminals use (#18–14 AWG wire)  |
| <b>LEDs</b>                       | Green: Power<br>Red: Output energized (both on in SCP/Overload)   |
| <b>Operating Temperature</b>      | –25°C to +75°C (–13°F to +167°F)  |
| <b>Shock</b>                      | 30g, 11ms   |
| <b>Vibration</b>                  | 55Hz, 1mm amplitude, 3 planes   |

**Correction Factors**

| Target Material | Correction Factor |
|-----------------|-------------------|
| Steel           | 1.0               |
| Stainless Steel | 0.9               |
| Brass           | 0.8               |
| Aluminum        | 0.75              |
| Copper          | 0.7               |

Inductive Proximity Sensors

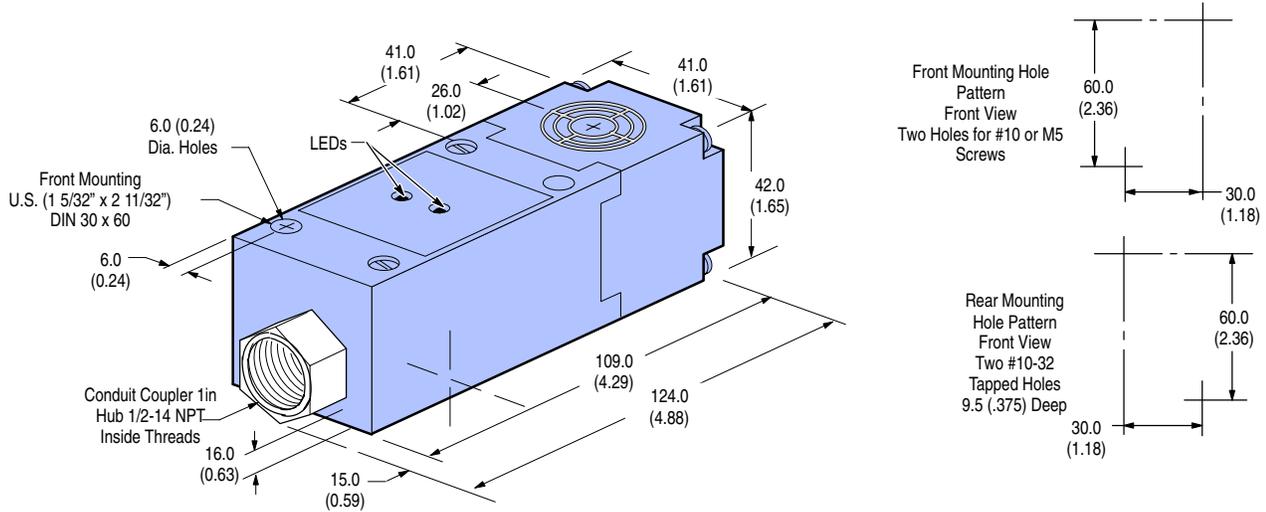
802PR 2-Wire AC/DC Hazardous Location, Conduit Style

Limit Switch Style

Selection Guide

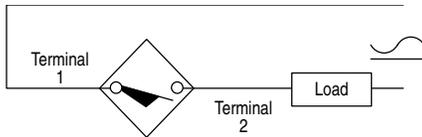
| Sensing Direction | Nominal Sensing Distance<br>mm (inches) | Shielded | Output Configuration | Switching Frequency (Hz) | Catalog Number<br>Conduit Style |
|-------------------|---|----------|----------------------|--------------------------|---------------------------------|
| Side              | 17 (0.67)                               | Y        | N.O.                 | 20                       | 802PR-LBAA3                     |
| Top               |   |          |                      |                          | 802PR-LBAJ3                     |

Dimensions—mm (inches)



**Note:** Side-sensing model heads can be turned in 90° increments to accommodate 4 side-sensing positions.

Wiring Diagram



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



802PR AC  
Cable Style  
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802PR AC Mini  
Quick-Disconnect Style  
page 2-159



802PR AC  
Conduit Style  
page 2-160



### Features

- 2-wire operation
- 2-conductor, 3-pin, or 2-terminal connection
- 60–132V AC or 102–132V AC
- Normally open or N.O./N.C. selectable output
- High output (1A)
- Transient noise and false pulse protection
- UL listed, CSA certified, and CE marked for all applicable directives

### Specifications

|                                   |   |
|-----------------------------------|---|
| <b>Load Current</b>               | ≤1A at +40°C linearly derated to 0.5A at 75°C   |
| <b>Inrush Current</b>             | ≤10A/1s   |
| <b>Supply Current (minimum)</b>   | 25mA  |
| <b>Leakage Current</b>            | ≤3.5mA (60–132V AC); ≤6.5mA (102–132V AC)   |
| <b>Operating Voltage</b>          | 60–132V AC or 102–132V AC   |
| <b>Voltage Drop</b>               | ≤8.5V   |
| <b>Repeatability</b>              | ≤0.025mm  |
| <b>Hysteresis</b>                 | 15% (max.)  |
| <b>False Pulse Protection</b>     | Incorporated  |
| <b>Transient Noise Protection</b> | Incorporated  |
| <b>Approvals</b>                  | UL listed, CSA certified, and CE marked for all applicable directives   |
| <b>Enclosure</b>                  | NEMA 1, 2, 3, 4, 4X <sup>①</sup> , 12, 13, IP65 (IEC 529)<br>Self-extinguishing glass-reinforced polyester body   |
| <b>Connections</b>                | Cable: 8ft or 12ft length<br>2-conductor 16 AWG STO (oil-resistant thermoplastic)<br>Quick Disconnect: 3-pin mini style<br>Conduit Opening<br>or Conduit Coupler: 1/2–14NPT internal thread with screw terminals<br>(use #18–14 AWG wire) |
| <b>LED</b>                        | Red: Output Energized   |
| <b>Operating Temperature</b>      | –25°C to +75°C (–13°F to +167°F)  |
| <b>Shock</b>                      | 30g, 11ms   |
| <b>Vibration</b>                  | 55Hz, 1mm amplitude, 3 planes   |

<sup>①</sup> Corrosion resistant models

### Correction Factors

| Target Material | Correction Factor |
|-----------------|-------------------|
| Steel           | 1.0               |
| Stainless Steel | 0.80–0.85         |
| Brass           | 0.50–0.55         |
| Aluminum        | 0.45–0.50         |
| Copper          | 0.40–0.45         |

# Inductive Proximity Sensors

## 802PR 2-Wire AC High Output, Cable Style

### Limit Switch Style

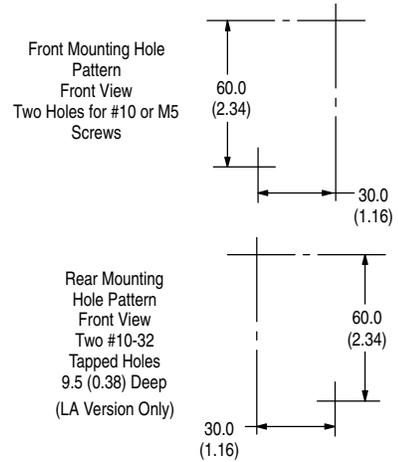
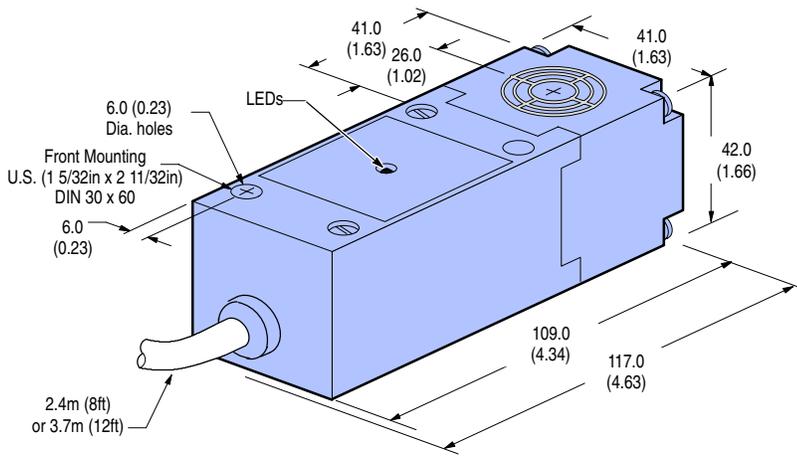
#### Selection Guide

| Sensing Direction | Nominal Sensing Distance<br>mm (inches) | Shielded       | Voltage Range | Output Configuration | Corrosion Resistant | Switching Frequency (Hz) | Cable Length (Ft) | Catalog Number<br>Cable Style |    |                |
|-------------------|---|----------------|---------------|----------------------|---------------------|--------------------------|-------------------|-------------------------------|----|----------------|
| Side              | 13 (0.51)                               | Y              | 60-132V AC    | Selectable❶          | N                   | 20                       | 8                 | 802PR-LABM2-08                |    |                |
|                   |   |                |               |                      |                     |                          | 12                | 802PR-LABM2-12                |    |                |
| Top               |   |                |               |                      |                     |                          | 8                 | 802PR-LABR2-08                |    |                |
|                   |   |                |               |                      |                     |                          | 12                | 802PR-LABR2-12                |    |                |
| Side              |   |                |               | Selectable❷          |                     |                          | 8                 | 802PR-LACM2-08                |    |                |
|                   |   |                |               |                      |                     |                          | 12                | 802PR-LACM2-12                |    |                |
| Top               |   |                | 8             | 802PR-LACR2-08       |                     |                          |                   |                               |    |                |
|                   |   |                | 12            | 802PR-LACR2-12       |                     |                          |                   |                               |    |                |
| Side              |   |                | 102-132V AC   | Y                    |                     | N.O.                     | Y                 | 16                            | 8  | 802PR-LAAM1-08 |
|                   |   |                |               |                      |                     |                          |                   |                               | 12 | 802PR-LAAM1-12 |
| Top               | 8                                       | 802PR-LAAR1-08 |               |                      |                     |                          |                   |                               |    |                |
|                   | 12                                      | 802PR-LAAR1-12 |               |                      |                     |                          |                   |                               |    |                |
| Side              | N.O.                                    | 8              |               |                      | 802PR-XAAM1-08      |                          |                   |                               |    |                |
|                   |   | 12             |               |                      | 802PR-XAAM1-12      |                          |                   |                               |    |                |
| Top               | 8                                       | 802PR-XAAR1-08 |               |                      |                     |                          |                   |                               |    |                |
|                   | 12                                      | 802PR-XAAR1-12 |               |                      |                     |                          |                   |                               |    |                |

❶ Preset to N.O. at factory.

❷ Preset to N.C. at factory.

#### Dimensions—mm (inches)

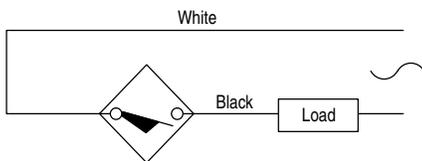


**Note 1:** Side sensing model heads can be turned in 90° increments to accommodate 4 side sensing positions.

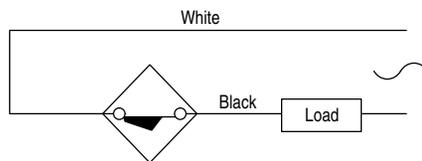
**Note 2:** Low voltage models have 2 LEDs.

#### Wiring Diagrams

##### Normally Open



##### Normally Closed



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

#### Accessories

| Description       | Page Number |
|-------------------|-------------|
| Terminal Chambers | 5-19        |

# 802PR 2-Wire AC High Output, Mini Quick-Disconnect Style Limit Switch Style

## Selection Guide

| Sensing Direction   | Nominal Sensing Distance<br>mm (inches) | Shielded | Output Configuration | Voltage Range | Switching Frequency (Hz) | Catalog Number<br>Mini QD Style |    |             |
|---|---|----------|----------------------|---------------|--------------------------|---------------------------------|----|-------------|
| Side  | 13 (0.51)                               | Y        | Selectable❶          | 60–132V AC    | 20                       | 802PR-LABE2                     |    |             |
| Top   |   |          |                      |               |                          | 802PR-LABK2                     |    |             |
| Side  |   |          | Selectable❷          |               |                          | 802PR-LACE2                     |    |             |
| Top   |   |          |                      |               |                          | 802PR-LACK2                     |    |             |
| Side  |   |          | N.O.                 |               |                          | 102–132V AC                     | 16 | 802PR-LAAE1 |
| Top   |   |          |                      |               |                          |                                 |    | 802PR-LAAK1 |
| Recommended Standard QD Cordset Required (–6F = 1.8m (6ft)) |   |          |                      |               |                          | 889N-F3AFC-6F                   |    |             |

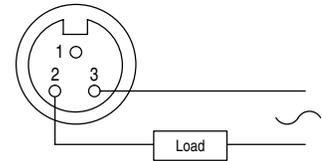
- ❶ Preset to N.O. at factory.
- ❷ Preset to N.C. at factory.

## QD Cordsets and Accessories

| Description              | Page Number |
|--------------------------|-------------|
| Other Cordsets Available | 5–8         |
| Terminal Chambers        | 5–19        |

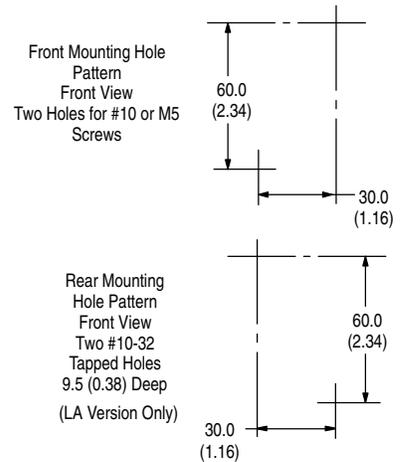
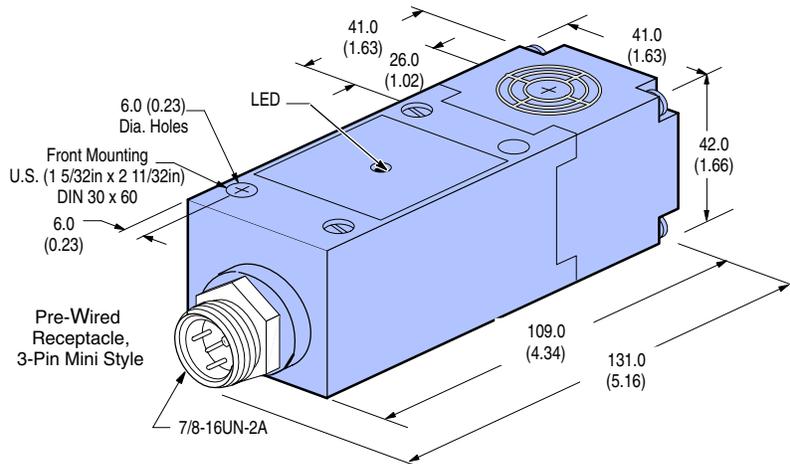
## Wiring Diagram

Normally Open or Normally Closed



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

## Dimensions—mm (inches)



- Note 1:** Side sensing model heads can be turned in 90° increments to accommodate 4 side sensing positions.
- Note 2:** Low voltage models have 2 LEDs.

# 802PR 2-Wire AC High Output, Conduit Style

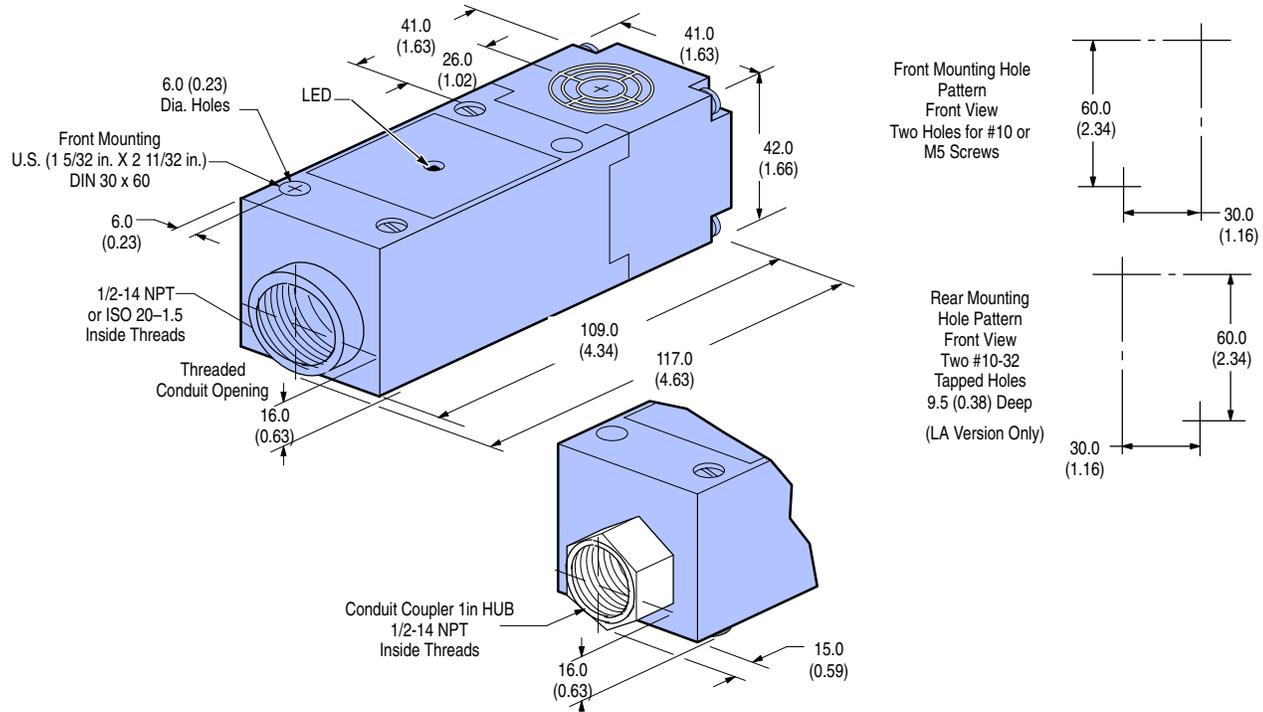
## Limit Switch Style

### Selection Guide

| Sensing Direction | Nominal Sensing Distance<br>mm (inches) | Shielded              | Output Configuration | Corrosion Resistant | Voltage Range | Switching Freq. (Hz) | Connection            | Catalog Number<br>Conduit Style |
|-------------------|---|-----------------------|----------------------|---------------------|---------------|----------------------|-----------------------|---------------------------------|
| Side              | 13 (0.51)                               | Y                     | Selectable❶          | N                   | 60–132V AC    | 20                   | Conduit Coupler       | 802PR-LABA2                     |
|                   |   |                       |                      |                     |               |                      | Threaded 1/2"–14 NPT❸ | 802PR-LABB2                     |
| Top               |   |                       |                      |                     |               |                      | Conduit Coupler       | 802PR-LABJ2                     |
|                   |   |                       |                      |                     |               |                      | Threaded 1/2"–14 NPT❸ | 802PR-LABH2                     |
| Side              |   |                       | Selectable❷          |                     |               |                      | Conduit Coupler       | 802PR-LACA2                     |
|                   |   |                       |                      |                     |               |                      | Threaded 1/2"–14 NPT❸ | 802PR-LACB2                     |
| Top               |   |                       |                      |                     |               |                      | Conduit Coupler       | 802PR-LACJ2                     |
|                   |   |                       |                      |                     |               |                      | Threaded 1/2"–14 NPT❸ | 802PR-LACH2                     |
| Side              |   |                       | N.O.                 | Y                   | 102–132V AC   | 16                   | Conduit Coupler       | 802PR-LAAA1                     |
|                   |   |                       |                      |                     |               |                      | Threaded 1/2"–14 NPT❸ | 802PR-LAAB1                     |
| Top               |   |                       |                      |                     |               |                      | Conduit Coupler       | 802PR-LAAJ1                     |
|                   |   |                       |                      |                     |               |                      | Threaded 1/2"–14 NPT❸ | 802PR-LAAH1                     |
| Side              |   | Threaded 1/2"–14 NPT❸ | 802PR-XAAB1          |                     |               |                      |                       |                                 |
| Top               |   | Threaded 1/2"–14 NPT❸ | 802PR-XAAH1          |                     |               |                      |                       |                                 |

- ❶ Preset to N.O. at factory.
- ❷ Preset to N.C. at factory.
- ❸ To order ISO 20–1.5 add ‘-S6’ to catalog number.

### Dimensions—mm (inches)

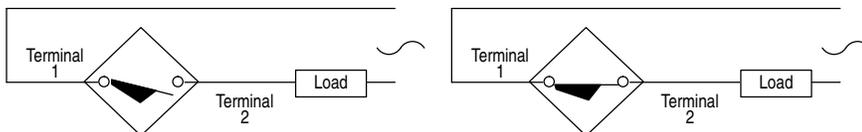


- Note 1:** Side sensing model heads can be turned in 90° increments to accommodate 4 side sensing positions.
- Note 2:** Low voltage models have 2 LEDs.

### Wiring Diagram

#### Normally Open

#### Normally Closed



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

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



802PR AC  
Conduit Style  
page 2-162



## Features

- 2-wire operation
- 2-terminal connection
- 102–132V AC
- Hazardous location rating
- High output (1A)
- Normally open output
- Transient noise and false pulse protection
- UL listed, CSA certified, and Factory Mutual approved

## Specifications

|                                   |  |
|-----------------------------------|--|
| <b>Load Current</b>               | 1A at +40°C linearly derated to 0.5A at 75°C   |
| <b>Inrush Current</b>             | ≤10A/1s  |
| <b>Supply Current</b>             | 25mA min.  |
| <b>Leakage Current</b>            | ≤6.5mA   |
| <b>Operating Voltage</b>          | 102–132V AC  |
| <b>Voltage Drop</b>               | ≤8.5V  |
| <b>Repeatability</b>              | ≤.025mm  |
| <b>Hysteresis</b>                 | 15% maximum  |
| <b>False Pulse Protection</b>     | Incorporated   |
| <b>Transient Noise Protection</b> | Incorporated   |
| <b>Approvals</b>                  | UL listed, CSA certified, and FM approved  |
| <b>Enclosure</b>                  | NEMA 1, 2, 3, 4, 12, 13 IP65 (IEC 529)<br>Division 2<br>Class I: Groups A, B, C & D;<br>Class II: Groups F & G;<br>Class III: All groups<br>Self-extinguishing glass reinforced polyester body |
| <b>Connection</b>                 | Conduit Coupler: 1/2–14 NPT internal thread with screw terminals<br>use (#18–14 AWG wire)  |
| <b>LED</b>                        | Red: Output Energized  |
| <b>Operating Temperature</b>      | –25°C to +75°C (–13°F to +167°F)   |
| <b>Shock</b>                      | 30g, 11ms  |
| <b>Vibration</b>                  | 55Hz, 1mm amplitude, 3 planes  |

## Correction Factors

| Target Material | Correction Factor |
|-----------------|-------------------|
| Steel           | 1.0               |
| Stainless Steel | 0.80–0.85         |
| Brass           | 0.50–0.55         |
| Aluminum        | 0.45–0.50         |
| Copper          | 0.40–0.45         |

**Inductive Proximity Sensors**

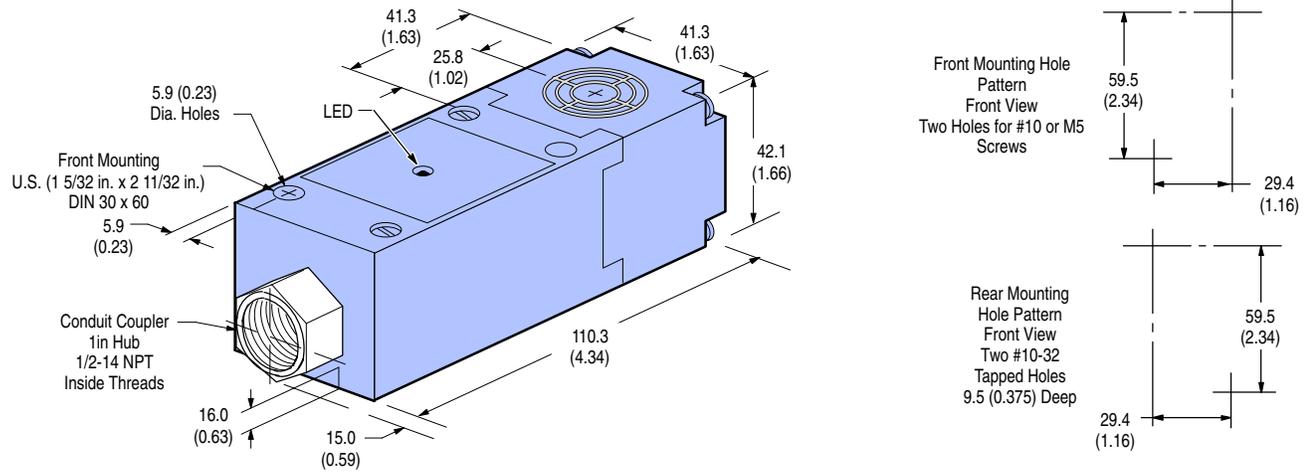
**802PR 2-Wire AC Hazardous Location, High Output, Conduit Style**

**Limit Switch Style**

**Selection Guide**

| Sensing Direction | Nominal Sensing Distance<br>mm (inches) | Shielded | Output Configuration | Switching Frequency (Hz) | Catalog Number<br>Conduit Style |
|-------------------|---|----------|----------------------|--------------------------|---------------------------------|
| Side              | 13 (0.51)                               | Y        | N.O.                 | 16                       | 802PR-LAAA3                     |
| Top               |   |          |                      |                          | 802PR-LAAJ3                     |

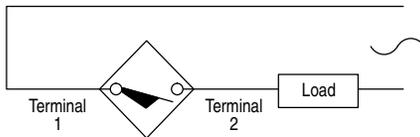
**Dimensions—mm (inches)**



**Note:** Side sensing model heads can be turned in 90° increments to accommodate 4 side sensing positions.

**Wiring Diagram**

**Normally Open**



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