

## Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



**Click this icon to try the new  
Interactive Catalog.**

---

**Sensing and Control**  
Honeywell Inc.  
11 West Spring Street  
Freeport, Illinois 61032



# Proximity Sensors

FY Series

## 76 mm Diameter Proximity Sensors

### 4-Wire DC, 2, 3-Wire AC Types

#### FEATURES

- Sealed to NEMA 3, 3R, 3S, 4, 12, 13
- Optional LED output indicator
- -30 to +70°C (-22 to +160°F) temperature range (2-wire AC, up to 85°C)
- False pulse suppression, line transients and noise protection

#### ORDER GUIDE

| Sensor Package Style                                                             | Sensing Range mm (in.)  | Sensor Type | LED | Sw. Freq. | Standard Target* mm (in.) | Output Type      | Input Voltage | Catalog Listing |
|----------------------------------------------------------------------------------|-------------------------|-------------|-----|-----------|---------------------------|------------------|---------------|-----------------|
|  | 32 (1.26)<br>Unshielded | 4-wire DC   | NO  | 100 Hz    | 101 (4)                   | NPN, N.O./N.C.** | 8.5-20        | FYDB32F1-2      |
|                                                                                  |                         |             | YES | 100 Hz    | 101 (4)                   | NPN, N.O./N.C.** | 19-30         | FYDD32B2-2      |
|                                                                                  |                         | 2-wire AC   | YES | 13 Hz     | 101 (4)                   | N.O.             | 93-132        | FYDD32C4-2      |
|                                                                                  |                         | 3-wire AC   | NO  | 20 Hz     | 101 (4)                   | N.O.<br>N.C.     | 93-132        | FYDB32C3-2      |
|                                                                                  |                         |             | YES | 20 Hz     | 101 (4)                   | N.O.<br>N.C.     | 93-132        | FYDD32C3-2      |
|  | 32 (1.26)<br>Unshielded | 2-wire AC   | YES | 13 Hz     | 101 (4)                   | N.O.             | 93-132        | FYDD32C4-33     |

\*Square of mild steel, 1,6 mm (.062 in.) thick.

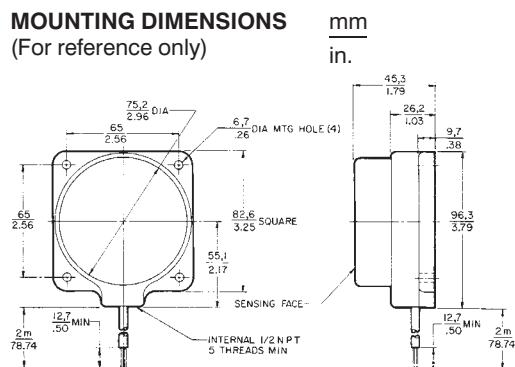
\*\* Complementary outputs N.O./N.C.

#### SPECIFICATIONS

| Sensor Type               | 4-wire DC                              | 2-wire AC               | 3-wire AC      |
|---------------------------|----------------------------------------|-------------------------|----------------|
| Supply Voltage            | 8.5-20, 19-30 VDC                      | 93-132 VAC              | 93-132 VAC     |
| Load Current, min.-max.   | 0-170 mA, N.O.<br>0-20 mA, N.C.        | 20-500 mA<br>continuous | 50 mA to 1.2 A |
| Leakage Current, max.     | 10 µA                                  | 8.5 mA                  | 6 mA           |
| Voltage Drop, max.        | 0.5 VDC Sinking,<br>2.6 VDC Sourcing   | 9 V                     | 2 V            |
| Current Consumption, max. | 25 mA                                  | —                       | 6 mA           |
| Inrush Current            | —                                      | 2.7 A                   | 7.5 A          |
| Repeatability, Unshielded | ± 3%                                   |                         |                |
| Hysteresis                | 2-15%                                  |                         |                |
| Sensing Face Material     | Polyamide                              |                         |                |
| Housing Material          | Aluminum with epoxy<br>powder coat     |                         |                |
| Cable Type                | PVC jacket, 22 gage (DC), 18 gage (AC) |                         |                |

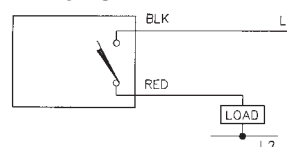
#### MOUNTING DIMENSIONS

(For reference only)

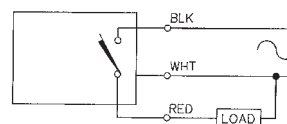


#### WIRING DIAGRAMS

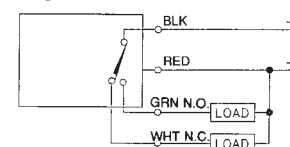
##### 2-wire AC



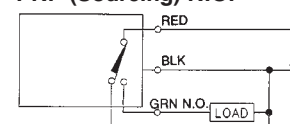
##### 3-wire AC



#### 4-wire DC NPN (Sinking) N.O.



#### PNP (Sourcing) N.O.



#### MATING CABLES

| Description             |     | Catalog Listing |
|-------------------------|-----|-----------------|
| Mini 3-pin AC, Straight | 6'  | 40902           |
|                         | 12' | 40903           |

