

# Autonics PR30-15DN Inductive Proximity Sensor – 15mm



## **Product Description**

Proximity sensors are the most common and affordable solution for no-touch object detection. The most commonly-used proximity sensor is the inductive type, which generates an electromagnetic field to sense metal objects passing close to its face. This is usually the easiest sensing technology to apply in applications where the metal object to be detected is within an inch or two of the sensor face.

Note that the standard detecting distance is based on a standard shape approaching the sensor in a standard way. The real detecting distance will vary depending on the shape, thickness and type of metal being detected and will in general be between 70 to 80% of the standard distance.

## **Comes packaged with**

- Mounting Hardware Kit



## **Connection**

You can use a 12V sensor adapter to connect this sensor to your InterfaceKit or Hub. See the Compatible Products tab for more details.

## Product Specifications

### Sensor Properties

|                           |                          |
|---------------------------|--------------------------|
| Detecting Distance Max    | 15 mm                    |
| Setting Distance Max      | 10.5 mm                  |
| Sensor Type               | Proximity<br>(Inductive) |
| Sensor Output Switch Type | Normally Open            |
| Detection Hysteresis Max  | 10 %                     |
| Sensor Response Time Max  | 5 ms                     |

### Electrical Properties

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| Supply Voltage Min         | 12 V DC                                                   |
| Supply Voltage Max         | 24 V DC                                                   |
| Current Consumption<br>Max | 10 mA                                                     |
| Protection Circuitry       | Reverse Polarity,<br>Surge, Overload and<br>Short-Circuit |

### Physical Properties

|                           |                   |
|---------------------------|-------------------|
| Cable Length              | 2 m               |
| Material                  | ABS Resin / Metal |
| Operating Indicator       | Red LED           |
| IP Rating                 | IP67              |
| Operating Temperature Min | -25 °C            |
| Operating Temperature Max | 70 °C             |
| Operating Humidity Min    | 35 %RH            |
| Operating Humidity Max    | 95 %RH            |