

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 (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 Max	10 mA
Protection Circuitry	Reverse Polarity, Surge, Overload and 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