

# Inductive sensor PS-05N, NO/NPN 10-30VDC

## Product codes:

Reference: AM5376

EAN13: -

UPC: 85365080

## Product features:

Voltage: 10-30 V DC

Output current: 150 mA

Cable length: 100 cm

Frequency: 800 Hz

Waterproof grade: IP67

Operating temperature: -25 °C - +80 °C

Output type: NPN

Output function: NO



## Product attributes:

## Product description:

The inductive proximity sensor PS-05N is used for non-contact detection of metal objects in automation, positioning and sensing applications. The square design allows for fixed mounting in structures and devices where repeatable switching without mechanical contact is required. The product is supplied with a 100 cm connection cable.

## Technical specifications

- Model: PS-05N
  - Product line: PS Series Inductive Proximity Sensor
  - Design type: square
  - Sensor type: inductive proximity sensor
  - Output method: NPN
  - Output state: NO
  - Sensing distance: 5.0 mm
  - Mounting method: flush
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- Scanning direction: horizontal
- Supply voltage: 10 to 30 VDC
- Switching frequency: 800 Hz
- Cable length: 100 cm
- Body dimensions: 17.0 x 17.0 x 29.0 mm

### **Functions and features**

- Non-contact detection of metal objects using the inductive principle.
- Square body with holes for firm attachment.
- Three-wire connection according to the diagram for the DC version.
- NPN output in normally open design.
- Design designed for recessed mounting.
- Horizontal scanning direction.

### **Ideal for**

- Industrial automation and machinery.
- Detection of metal parts on production and transport lines.
- Positioning of mechanical parts.
- Sensing end positions and the presence of metal objects.

### **Package contents**

- Inductive proximity sensor PS-05N with cable

### **Why choose this product?**

- Clearly designated NPN NO output design for DC applications.
- Compact square design suitable for fixed installation.
- Specifically stated sensing distance 5.0 mm.
- Switching frequency 800 Hz for fast sensing.
- The wired connection makes it easy to plug directly into your device.

### **Installation and operating instructions**

- Follow the wiring diagram for NPN DC version.
- Install the sensor in accordance with the desired flush mounting method.
- When installing, observe the orientation of the sensing surface and the horizontal sensing direction.
- Before commissioning, verify the compatibility of the power supply and input of the connected control system.

### **Safety notice**

- Incorrect wiring may cause damage to the sensor or connected device.
  - Perform installation and connection with the power disconnected.
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- Installation in industrial equipment must be carried out by a qualified person.
- Prevent mechanical damage to the cable and the sensing surface.

### Product gallery:

