

Inductive sensor PS-05P, NO/PNP 10-30VDC

Product codes:

Reference: AM6212

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: PNP

Output function: NO



Product attributes:

Product description:

The PS-05P inductive sensor is used for non-contact detection of metal objects in automation, machine and industrial applications. It is a square sensor of the PS series with PNP output, designed for horizontal mounting. The sensor design is suitable for use where switching based on the approach of a metal object without mechanical contact is required.

Technical specifications

- Model: PS-05P
 - Product type: inductive proximity sensor
 - Design: square
 - Output method: PNP
 - Output state: NO
 - Sensing distance: 5.0 mm
 - Mounting method: flush mounting
 - Scanning direction: horizontal
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- Supply voltage: 10 to 30 V DC
- Maximum output current: 150 mA
- Maximum self-consumption: 10 mA
- Residual voltage: less than 0.1 V
- Leakage current: less than 0.8 mA
- Hysteresis: less than 10% of the sensing distance
- Temperature drift: less than 10 µm per °C
- Voltage drift: less than 1 µm per V
- Protection circuits: short circuit and reverse polarity protection
- Operating temperature: -25°C to +80°C
- Operating humidity: 35% to 95% RH
- Sensor dimensions: 17.0 x 17.0 x 29.0 mm
- Mounting holes: 2 holes 3.2 x 2
- Cable length: 100cm
- Protection: IP67
- Response frequency: 800 Hz

Functions and features

- Non-contact inductive detection of metal objects.
- PNP switching output in NO version.
- Square body for fixed mounting in a structure or holder.
- Recessed mounting design.
- Horizontal scanning orientation.
- Built-in protection against short circuit and reverse polarity of power supply.
- IP67 protection rating for use in industrial environments.

Ideal for

- Industrial automation and production lines.
- Position detection of metal machine parts.
- Sensing the presence of metal parts in fixtures and mechanisms.
- Integration into control and signaling circuits with DC power supply.

Package contents

- Inductive sensor PS-05P

Why choose this product?

- Clearly defined technical design with PNP output and NO logic.
 - Flush mounting and square body facilitate integration into machine units.
 - Protective circuits increase resistance when connected in industrial applications.
 - IP67 protection and a wide range of operating conditions support use in more demanding operations.
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Installation and operating instructions

- Observe the correct wiring according to the wiring diagram for the PNP variant.
- Install the sensor in accordance with the desired flush mounting method.
- When installing, ensure the correct orientation of the sensing surface relative to the detected metal object.
- Connect power supply and load only within the limits of the specified electrical parameters.

Safety notice

- Only carry out electrical connections when the power supply is disconnected.
- Incorrect wiring may cause damage to the sensor or connected equipment.
- Installation into control and industrial systems should be carried out by a person with appropriate electrical qualifications.
- Do not operate the sensor outside the specified power supply, current, and ambient conditions.

Product gallery:

