

Inductive sensor IFM IE5349 with M8 thread

Reference: AM4036
EAN13: 4021179278225
HS code: 85365080



Product attributes:

Product features:

Current: 100 mA
Voltage: 10-30 V DC
Waterproof grade: IP67

Product description:

The ifm IE5349 inductive sensor is designed for non-contact sensing of metal objects in industrial applications. The short cylindrical design with threaded housing allows use even in limited installation space. The sensor is equipped with an M8 connector and is suitable for detection and positioning tasks in automation.

Technical specifications

- Model: IFM IE5349
- Sensor type: inductive sensor
- Output type: PNP/NPN
- Output function: normally closed
- Sensing distance: 3 mm
- Real sensing range S_r : $3 \pm 10\%$
- Working distance: 0 to 2.4 mm
- Supply voltage: 10 to 30 V DC
- Protection class: III
- Reverse polarity protection: yes
- Maximum voltage drop at DC output: 3.5 V
- Minimum load current: 2 mA, only in two-wire operation
- Maximum leakage current: 0.5 mA, in three-wire operation
- Rated continuous current of the DC switching output: 100 mA
- DC switching frequency: 800 Hz
- Short circuit protection: yes
- Overload protection: yes
- Housing design: threaded
- Dimension: M8 x 1, length 40 mm
- Thread designation: M8 x 1
- Mounting method: flush mounting
- Protection: IP65, IP67 with properly tightened ifm socket
- Ambient temperature: 0 to 60 °C
- Connector: 1 x M8, A-coded
- Switching status indication: 4x yellow LED
- Weight: 14g
- Accessories supplied: 2 lock nuts

Functions and features

- Non-contact detection of metal objects without mechanical wear of the sensing part.
- The short sensor body makes it easy to install in applications with limited space.
- The threaded cylindrical design allows for a firm mechanical attachment.
- A visible LED indication shows the switching status.
- Electronic protection against short circuit, overload and reverse polarity increases operational durability.
- The flush-mount design allows integration into metal mounting elements.

Ideal for

- Detection of metal parts in production and assembly lines.
- Positioning and end sensing in automation systems.
- Use in machinery with limited installation space.
- Industrial applications requiring connector connections and a compact sensor.

Package contents

- ifm IE5349 inductive sensor
 - 2 lock nuts
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Why choose this product?

- Clearly defined mechanical design with M8 x 1 thread and 40 mm length.
- Sensing distance of 3 mm for precise, contactless sensing.
- M8 connector with A-coding for standardized connection.
- IP65 and IP67 protection when properly tightened supports use in industrial environments.
- Integrated protection functions reduce the risk of damage in the event of a wiring error or short circuit at the output.

Installation and operating instructions

- Observe the flush mounting method and correct mechanical fastening using nuts.
- To maintain the declared protection, the connector must be correctly connected and tightened.
- When designing an application, it is necessary to respect a different correction factor depending on the material of the scanned object.
- Make the connections according to the appropriate wiring for the given operating mode.

Safety notice

- Disconnect the power to the device before connecting.
- Incorrect wiring can lead to damage to the sensor or the associated electronics.
- Do not exceed the permissible supply voltage and output current load.
- Installation and electrical connection must be carried out by a qualified person.
- Do not operate the sensor if the housing, connector or seal is damaged.

