

# Inductive sensor IFM IE5340 with M8 thread

## Product codes:

Reference: AM5193

EAN13: 4021179278225

UPC: 85365080



## Product features:

Current: 100 mA

Voltage: 10-30 V DC

Waterproof grade: IP67

## Product attributes:

## Product description:

The IFM IE5340 inductive sensor is a cylindrical threaded sensor for non-contact detection of metal objects in automation and machine applications. The short housing facilitates use in limited installation space. The sensor is designed for DC power supply and is equipped with a normally open switching output. Visible LED signaling allows checking the switching status during operation.

## Technical specifications

- Model: IFM IE5340
  - Sensor type: inductive sensor
  - Electrical design: PNP/NPN
  - Output function: normally open
  - Sensing range: 5 mm
  - Real sensing range  $S_r$ :  $5 \pm 10 \%$
  - Working distance: 0 to 4.05 mm
  - Supply voltage: 10 to 30 V DC
  - Protection class: III
  - Reverse polarity protection: yes
  - Short circuit protection: yes
  - Overload protection: yes
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- Maximum voltage drop at the DC switching output: 3.5 V
- Minimum load current: 2 mA, only in two-wire operation
- Maximum residual current: 0.5 mA, only in two-wire operation
- Continuous current of the DC switching output: 100 mA
- DC switching frequency: 600 Hz
- Housing design: threaded
- Dimensions: M8 x 1 / length 40 mm
- Thread designation: M8 x 1
- Mounting method: non-flush mounting
- Protection: IP65, IP67 when the connector mating piece is properly tightened
- Ambient temperature: 0 to 60 °C
- Connector: 1 x M8, A-coded
- Status indication: 4x LED, yellow
- Weight: 13.8g
- Housing material: stainless steel 1.4401 / 316
- Sensing surface material: LCP, orange
- LED window material: PPSU
- Locknut: stainless steel 1.4401 / 316

#### **Functions and features**

- Non-contact detection of metal objects.
- Short cylindrical design for installation where space is limited.
- Visible indication of the switching status via LED.
- Can be used as a three-wire or two-wire unit.
- Threaded metal housing for mechanically secure mounting.
- Non-flush mounting design.
- M8 connector connection with A-coding.
- Integrated protection against reverse polarity, short circuit and overload.

#### **Ideal for**

- Industrial automation.
- Positional and presence detection of metal parts.
- Assembly fixtures, manipulators and production lines.
- Applications with limited installation space.
- Machines and equipment requiring contactless sensing.

#### **Package contents**

- Inductive sensor IFM IE5340
- 2 lock nuts

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

- Compact dimensions with M8 x 1 thread facilitate integration into
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machine units.

- The contactless sensing principle limits mechanical wear.
- The switching status indication simplifies commissioning and diagnostics.
- Protective functions support safe operation when connected correctly.
- The metal housing and IP65/IP67 protection allow use in industrial environments.

### **Installation and operating instructions**

- Observe the non-flush mounting method according to the sensor's design specification.
- When connecting, use the corresponding M8 connector with A coding.
- To maintain shielding, it is necessary to properly tighten the mating connector.
- During assembly, observe the prescribed tightening torque of the mechanical parts.
- Before commissioning, verify correct output and power connection.

### **Safety notice**

- Only carry out installation and electrical connections when the power supply is disconnected.
- Incorrect wiring may result in damage to the sensor or downstream equipment.
- Observe the rated supply voltage range and output load.
- In industrial applications, the sensor must be used in accordance with the safety design of the entire device.
- Installation must be carried out by a person with appropriate electrical qualifications.

### **Product gallery:**

