

# Inductive sensor IFM IE5331 with M8 thread

Reference: AM6390  
EAN13: 4021179085243  
HS code: 85365080



## Product attributes:

## Product features:

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

## Product description:

The IFM IE5331 inductive sensor is a cylindrical threaded sensor for non-contact detection of metal objects in industrial applications. It is designed for installation in limited spaces and provides a PNP switching output with a normally open switching function. The design with a threaded body, visible switching status indication and IP67 protection supports use in more demanding operating environments.

## Technical specifications

- Product type: inductive sensor
- Model: IE5331
- Output type: PNP
- Output function: normally open
- Sensing range: 4 mm
- Working distance: 0 to 3.25 mm
- Increased sensing range: yes
- Operating voltage: 10 - 30 V DC
- Current consumption: less than 10 mA
- Continuous current of the DC switching output: 100 mA
- Maximum voltage drop at the DC switching output: 2.5 V
- DC switching frequency: 300 Hz
- Protection class: III
- Reverse polarity protection: yes
- Short circuit protection: yes
- Overload protection: yes
- Protection: IP67
- Ambient temperature: 0 to 70 °C
- Housing design: threaded
- Mounting: non-flush mountable
- Dimensions: M8 x 1 / L = 60
- Thread designation: M8 x 1
- Weight: 22.5g
- Electrical connection: 1 x M12, A-coded
- Status indication: 4 x 90° LED, yellow
- Accessories included: 2 lock nuts

## Functions and features

- Non-contact detection of metal objects
- Compact design for installation where space is limited
- Threaded body allows mechanical fastening with nuts
- Visible switching status indication makes it easy to check the function during operation
- Designed for industrial environments
- Output protection functions reduce the risk of damage during error conditions

## Ideal for

- Industrial automation
- Detection of metal parts on machines and production lines
- Position and end signaling
- Applications with limited mounting space
- Installations requiring M12 connector connection

## Package contents

- Inductive sensor IFM IE5331
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- 2 lock nuts

## Why choose this product?

- Clearly defined electrical and mechanical parameters for integration into control systems
- Compact M8 threaded design for installation in confined spaces
- PNP normally open output for common industrial control circuits
- IP67 protection for use in environments requiring dust and water resistance
- Integrated switching status signaling simplifies commissioning and diagnostics

## Installation and operating instructions

- Observe the specified supply voltage of 10 to 30 V DC and the correct connection of the M12 connector.
- Install the sensor in accordance with the required non-flush mounting method.
- When installing, use appropriate tightening of fasteners to avoid mechanical damage to the thread or housing.
- For proper function, respect the working distance and the influence of the material of the scanned object on the detection range.

## Safety notice

- Only perform installation and connection when the power supply is disconnected.
- Incorrect electrical connections may damage the sensor or downstream circuits.
- Do not exceed the specified electrical output and power supply limits.
- Use the product only within the specified operating conditions and coverage.
- Installation in industrial facilities should be carried out by a person with appropriate professional qualifications.

