

RoHS KF5002 IFM Capacitive Sensor KFA3080NBPKG/NI/US Stainless steel

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: KF5002
- Packaging Details: 15,10 x 15,40 x 4,60
- Delivery Time: 10-12Days
- Payment Terms: L/C, T/T
- Supply Ability: 100



Product Specification

- Housing Material: Stainless Steel
- Certifications: CE, RoHS, UL
- Operating Temperature: -25 To 85 Degrees Celsius
- Connection Type: M12 Connector
- Protection Rating: IP67
- Mounting Type: Threaded Or Flange
- Output Signal: Analog Or Digital
- Response Time: ≤ 10 Ms
- Measurement Range: -50 To 250 Degrees Celsius
- Accuracy: ± 0.2 Degrees Celsius
- Supply Voltage: 10 To 30 VDC
- Electrical Connection: 2-wire Or 4-wire
- Sensor Element: Thin-film Or Wire-wound
- Sensor Type: Pt100 Or Pt1000
- Highlight: **KF5002 ifm capacitive sensor ,**

Product Description

IFM Capacitive sensor KF5002 KFA3080NBPKG/NI/US

The IFM KF5002 KFA3080NBPKG/NI/US is a capacitive sensor manufactured by IFM Electronic GmbH. Here's some information about the capacitive sensor:

1. Model: KF5002 KFA3080NBPKG/NI/US

2. Manufacturer: IFM Electronic GmbH

3. Function: The capacitive sensor is designed to detect the presence or absence of various materials or objects based on changes in capacitance.

4. Sensing Principle: Capacitive sensors work by measuring changes in the electrical capacitance between the sensor and the target object. When an object enters the sensing range, it causes a change in capacitance, triggering the sensor's output.

5. Housing Type: The sensor is housed in a specific enclosure or housing design, which may vary depending on the model.

Unfortunately, I do not have specific information about the housing type for this particular model.

6. Electrical Connection: The sensor supports a specific electrical connection type, indicated by the "/US" in the model name. The exact type of electrical connection may vary, and you should consult the product documentation or datasheet for more details.

7. Output Type: The sensor likely provides an output signal that indicates the presence or absence of the detected object. The specific output type for this model, such as NPN (sourcing) or PNP (sinking), can be identified by the "NB" or "PB" in the model name. Unfortunately, I do not have specific information about the output type for this particular model.

8. Application: Capacitive sensors like the KF5002 KFA3080NBPKG/NI/US are commonly used in industrial automation, robotics, packaging, and material handling applications for detecting solid or liquid objects, level sensing, and proximity detection.

For detailed specifications, installation guidelines, and compatibility information for the IFM KF5002 KFA3080NBPKG/NI/US capacitive sensor, it is recommended to consult the official documentation provided by IFM Electronic GmbH or contact their technical support. They will be able to provide you with accurate and up-to-date information based on your specific requirements and the latest product information available.

Product characteristics

Electrical design	PNP
Output function	normally open
Sensing range [mm]	3...12
Housing	threaded type
Dimensions [mm]	M12 x 1 / L = 61

Application

Media	dry bulk material; liquids
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Electrical data

Operating voltage [V]	10...36 DC; ("supply class 2" to cULus)
Current consumption [mA]	< 12
Protection class	III
Reverse polarity protection	yes





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