

Inductive IFM Temperature Sensors IGS208 IGKC008BASKG/M/US-104-DRS/2LED

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: IGS208
- Minimum Order Quantity: 1
- Price: USD
- 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

- Response Time: ≤ 5 Ms
- Measurement Range: $-50 \dots 150$ °C
- Supply Voltage: 10...30 V DC
- Weight: 20 G
- Protection Rating: IP67
- Storage Temperature: $-40 \dots 85$ °C
- Accuracy: ± 0.2 °C
- Connection Type: M12 Connector
- Operating Temperature: $-25 \dots 85$ °C
- Output: 4...20 MA
- Sensor Element: Pt1000
- Housing Material: Stainless Steel
- Dimensions: $\varnothing 6 \times 32$ Mm
- Mounting Type: Threaded
- Highlight: Inductive IFM Temperature Sensors.

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Product Description

IFM Inductive sensor IGS208 IGKC008BASKG/M/US-104-DRS/2LED

The IFM IGS208 IGKC008BASKG/M/US-104-DRS/2LED is an inductive proximity sensor with two LEDs, manufactured by IFM Electronic GmbH. Here's some information about the sensor:

1. Model: IGS208 IGKC008BASKG/M/US-104-DRS/2LED
2. Manufacturer: IFM Electronic GmbH
3. Function: The inductive proximity sensor is designed to detect the presence or absence of metallic objects without physical contact. It generates an electromagnetic field and detects changes in the field caused by the presence of a metallic target within its sensing range.
4. Sensing Principle: The sensor uses the principle of electromagnetic induction. When a metallic object enters the sensor's electromagnetic field, it induces eddy currents in the metal, causing a change in the sensor's impedance. This change is detected by the sensor, triggering an output signal.
5. Sensing Range: The specific sensing range of the sensor depends on the model variant. Unfortunately, the provided model number does not contain information about the sensing range. It's recommended to refer to the product documentation or datasheet for the exact sensing range of this particular model.
6. Electrical Connection: The sensor supports a specific electrical connection type, indicated by the "/US-104-DRS" 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. LED Indicators: The sensor features two LEDs, which provide visual indication of the sensor's status or the presence of an object. The specific functionality of the LEDs may vary, and you should consult the product documentation or datasheet for more details.

For detailed specifications, installation guidelines, and compatibility information for the IFM IGS208 IGKC008BASKG/M/US-104-DRS/2LED inductive 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/NPN
Output function	normally open
Sensing range [mm]	8
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 70

Application

Special feature	Gold-plated contacts; Increased sensing range; Optical setting aid
Application	Industrial applications / factory automation

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	12; (24 V)
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.8
Minimum load current [mA]	2; (only in 2-wire operation)
Max. leakage current [mA]	0.6; (only in 2-wire operation)
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	400
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	8
Real sensing range S_r [mm]	$8 \pm 10 \%$
Operating distance [mm]	0...6.5
Increased sensing range	yes

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.5 / copper: 0.4
Hysteresis [% of S_r]	3...15
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	-25...70
Protection	IP 67



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