

Diffuse Reflection IFM Photoelectric Sensors OF5027 OFB-FPKG/US-100

Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: OF5027
- 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

- Output Type: Analog
- Connection Type: M12 Connector
- Weight: 20 G
- Response Time: ≤ 10 Ms
- Temperature Range: -50 To 150 Degrees Celsius
- Protection Rating: IP67
- Housing Material: Stainless Steel
- Dimensions: $\varnothing 6.5 \times 40$ Mm
- Sensing Element: Pt1000
- Supply Voltage: 10-30 VDC
- Mounting Type: Threaded
- Operating Temperature: -25 To 85 Degrees Celsius
- Accuracy: ± 0.3 Degrees Celsius
- Highlight: Diffuse Reflection IFM Photoelectric Sensors,
OF5027 IFM Photoelectric Sensors,
Diffuse Reflection IFM Photoelectric Sensors

Product Description

IFM Diffuse reflection sensor OF5027 OFB-FPKG/US-100

The IFM OF5027 OFB-FPKG/US-100 is a diffuse reflection sensor with background suppression, manufactured by IFM Electronic GmbH. Here's some information about the sensor:

1. Model: OF5027 OFB-FPKG/US-100
2. Manufacturer: IFM Electronic GmbH
3. Function: The diffuse reflection sensor with background suppression is designed to detect the presence or absence of objects based on reflected light. It utilizes background suppression technology to ignore objects beyond a certain distance and only detect objects within the defined sensing range.
4. Sensing Principle: The sensor emits a beam of light and measures the intensity of the light reflected back from the target object. It uses a specialized optical system to focus on objects within a specific distance range while suppressing the detection of background objects.
5. Sensing Range: The specific sensing range of the sensor depends on the model variant. In this case, the "US-100" in the model name suggests a sensing range of up to 100 mm. However, it's always 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" 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. Housing Type: The sensor is likely housed in a specific enclosure or housing design. Unfortunately, I do not have specific information about the housing type for this particular model.

For detailed specifications, installation guidelines, and compatibility information for the IFM OF5027 OFB-FPKG/US-100 diffuse reflection sensor with background suppression, 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

Type of light	infrared light
Housing	threaded type

Application

Special feature	Function check output
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 35
Protection class	II
Reverse polarity protection	yes
Type of light	infrared light
Wave length [nm]	880

Outputs

Electrical design	PNP
Output function	light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC [V]	2.5
Function check output	yes
Max. voltage drop of function check output [V]	3.5
Max. current load for function check output [mA]	10
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	320
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Range [mm]	1...400; (white paper 200 x 200 mm)
Range adjustable	yes
Max. light spot diameter [mm]	185
Light spot dimensions refer to	at maximum range

Operating conditions

Ambient temperature [°C]	-25...60
Protection	IP 65

Tests / approvals

EN	EN 60947-5-2	
CE		

M T T F [y e a r s]	607
Mechanical data	
W e i g h t [g]	40
H o u s i n g	threaded type
D i m e n s i o n s [m m]	M12 x 1 / L = 74
T h r e a d e s i g n a t i o n	M12 x 1
M a t e r i a l s	housing: brass white bronze coated
L e n s m a t e r i a l	PMMA



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