

## T-Slot Cylinder Sensor MK5107 IFM MKT3028BBPKG/G/0 3M/ZH/US

### Our Product Introduction

#### Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: MK5107
- 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

- Certifications: CE, CULus, EAC
- Output Signal: 4-20mA, 0-10V, Pt100, Pt1000
- Mounting Type: Threaded Or Flange
- Operating Temperature: -25 To 85°C
- Connection Type: M12 Connector
- Measurement Range: -50 To 150°C
- Probe Length: 50mm To 1000mm
- Electrical Connection: 2-wire Or 4-wire
- Housing Material: Stainless Steel
- Response Time: ≤ 10ms
- Accuracy: ±0.2°C
- Sensor Type: Pt100 Or Pt1000
- Protection Rating: IP67
- Supply Voltage: 10-30V DC
- Highlight: **MKT3028BBPKG mk5107 ifm,**

## Product Description

IFM T-slot cylinder sensor MK5107 MKT3028BBPKG/G/0,3M/ZH/US

The IFM MK5107 MKT3028BBPKG/G/0,3M/ZH/US is a T-slot cylinder sensor, manufactured by IFM Electronic GmbH. Here's some information about the sensor:

1. Model: MK5107 MKT3028BBPKG/G/0,3M/ZH/US

2. Manufacturer: IFM Electronic GmbH

3. Function: The T-slot cylinder sensor is designed to detect the position of a cylinder's piston within a T-slot cylinder. It provides feedback on the extended or retracted state of the cylinder's piston.

4. Sensing Principle: The sensor likely utilizes a magnetic sensing principle to detect the position of a magnet embedded within the cylinder's piston. It can sense the magnetic field, indicating whether the piston is extended or retracted.

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 "/0,3M/ZH/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 designed for installation within a T-slot cylinder. It may have a compact and robust housing suitable for the operating conditions inside the cylinder.

For detailed specifications, installation guidelines, and compatibility information for the IFM MK5107

MKT3028BBPKG/G/0,3M/ZH/US T-slot cylinder 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

<b>Electrical design</b>	PNP
<b>Output function</b>	normally open
<b>Dimensions [mm]</b>	25 x 5 x 6.5

Electrical data

<b>Operating voltage [V]</b>	10...30 DC; ("supply class 2" to cULus)
<b>Current consumption [mA]</b>	< 10
<b>Protection class</b>	III
<b>Reverse polarity protection</b>	yes
<b>Max. power-on delay time [ms]</b>	30

Outputs

<b>Electrical design</b>	PNP
<b>Output function</b>	normally open
<b>Max. voltage drop switching output DC [V]</b>	2.5
<b>Permanent current rating of switching output DC [mA]</b>	100
<b>Switching frequency DC [Hz]</b>	10000
<b>Short-circuit protection</b>	yes
<b>Type of short-circuit protection</b>	pulsed
<b>Overload protection</b>	yes

Detection zone

<b>Response sensitivity [mT]</b>	2.8
<b>Travel speed [m/s]</b>	> 10

Accuracy / deviations

<b>Hysteresis [mm]</b>	< 1.5
<b>Repeatability [mm]</b>	< 0.2

Operating conditions

<b>Ambient temperature [°C]</b>	-25...85
<b>Protection</b>	IP 65; IP 67

Tests / approvals

E M C	EN 61000-4-2 ESD	- CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
	EN 55011	class B
M T T F [ y e a r s ]		
	3694	

UL a p p r o v al	Ta	-25...75 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current (Marking Class 2)
	UL Approval no.	C003
	File number UL	E174191

#### Mechanical data

<b>Weight [g]</b>	21.1
<b>Mounting</b>	flush mountable
<b>Type of mounting</b>	fastening clamp with combined slot / hexagon socket, width across flats 1.5
<b>Cylinder type</b>	T-slot cylinders
<b>Dimensions [mm]</b>	25 x 5 x 6.5
<b>Materials</b>	housing: PA; fastening clamp: stainless steel



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