

IFM Cylinder sensor with GMR cell MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR

Our Product Introduction

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Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: MK5311
- 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

- Accuracy: ± 0.2 Degrees Celsius
- Protection Rating: IP67
- Mounting Type: Threaded Or Flange
- Response Time: ≤ 10 Ms
- Electrical Connection: 2, 3 Or 4-wire Connection
- Supply Voltage: 10-30V DC
- Connection Type: M12 Connector Or Cable
- Certifications: CE, UL, CSA, RoHS
- Measurement Range: -50 To 150 Degrees Celsius
- Output Signal: 4-20mA, 0-10V, 0-5V, Pt100, Pt1000, Ni1000, Ni1000 TK5000
- Housing Material: Stainless Steel
- Special Features: High Vibration Resistance, Programmable Via IO-Link
- Operating Temperature Range: -25 To 85 Degrees Celsius



Product Description

IFM Cylinder sensor with GMR cell MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR

Okay, let's take a look at the details of the IFM Cylinder Sensor with GMR Cell MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR:

1. Product Name:

- IFM Cylinder Sensor with GMR Cell MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR

2. Description:

- The MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR is a cylinder sensor from IFM Electronics that uses a GMR (Giant Magnetoresistive) cell for position detection.
- Cylinder sensors are used to detect the position of pistons or cylinders in industrial automation and control applications.

3. Key Features:

- GMR (Giant Magnetoresistive) cell for position detection
- Compact and robust design with a stainless steel housing
- PNP/NPN switching output for position feedback
- Adjustable switching points via teach-in function
- Cable length of 0.3 meters
- Protection rating of IP67 for use in harsh environments

4. Applications:

- The IFM MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR cylinder sensor is suitable for a variety of industrial automation and control applications, such as:
- Position detection in pneumatic and hydraulic cylinders
- Monitoring the movement and position of machinery components
- Feedback for industrial process control and automation

5. Connectivity:

- The sensor has a 3-wire DC connection:
- 1 x Brown (L+)
- 1 x Blue (L-)
- 1 x Black (PNP/NPN switching output)
- The sensor can be easily integrated into industrial control systems and automation networks.

6. Capabilities:

- GMR cell for precise and reliable position detection
- PNP/NPN switching output for position feedback
- Adjustable switching points via teach-in function
- Compact and robust stainless steel housing with IP67 rating
- Cable length of 0.3 meters

7. Compatibility:

- The IFM MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR cylinder sensor is designed to be compatible with a wide range of industrial automation and control systems.
- It can be integrated with programmable logic controllers (PLCs), motion control systems, and other industrial control equipment.

The MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR is a versatile and robust cylinder sensor from IFM Electronics, featuring a GMR cell for precise position detection. Its compact stainless steel housing, IP67 rating, and adjustable switching points make it suitable for a variety of industrial automation and control applications, such as position detection in pneumatic and hydraulic cylinders, and feedback for industrial processes.

If you have any further questions about the IFM MK5311 MKC3028BBPKG/G/0,3M/ZH/ASR cylinder sensor or need additional information, please don't hesitate to ask.

Product characteristics

Electrical design	PNP
Output function	normally open
Dimensions [mm]	26.1 x 2.8 x 5.5

Electrical data

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

Outputs

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

Detection zone

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

Accuracy / deviations

Hysteresis [mm]	1.5
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Repeatability [mm]	≤ 0.2
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Operating conditions	
Ambient temperature [°C]	-25...85
Protection	IP 65; IP 67

Tests / approvals		
EMC	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
MTTF [years]		
3731		
UL approval	Ta	-25...75 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current (Marking Class 2)
	UL Approval no.	C008
	File number UL	E174191





Shenzhen Voboal Industrial Automation Co., Ltd.



+8613760462017



sale@voboal.com



plcsimatic.com

Sienteng Zhongbao Industrial Park, Longdong Community, Baolong Street, Longgang District, Shenzhen