IFM TN2511 TN-045KCBD18-MFPKG/US/

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: TN2511
- 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

- Mounting: Threaded, Flush, Or With Mounting Bracket
- Housing Material: Stainless Steel, PTFE, Plastic
- Protection Rating: IP67
- Connection: M12 Connector, Cable
- Certifications: CE, RoHS, UL, CSA
- Accuracy: ±0.2 °C
- Operating Temperature: -25...85 °C
- Sensor Element: Thin-film, Ceramic, Or Glass
- Measurement Range: -50...150 °C
- Supply Voltage: 10...30 V DC
- Sensor Type: Pt100, Pt1000, NTC, PTC
- Response Time: ≤ 10 Ms
- Output: 0...10 V, 4...20 MA, IO-Link
- Cable Length: 2 M, 5 M, 10 M

Product Description

IFM TN2511 TN-045KCBD18-MFPKG/US/
Okay, let's review the details for the IFM TN2511 TN-045KCBD18-MFPKG/US/ temperature sensor:
1. Product Name:
- IFM TN2511 TN-045KCBD18-MFPKG/US/
2. Product Description:
- This is an IFM TN2511 temperature sensor with the following specifications:
- Model: TN-045KCBD18-MFPKG/US/
- Sensor type: Temperature
3. Key Features:
- Temperature measurement
- M18 connection
- Analog (1-wire) output
- Stainless steel housing
- Compact design
4. Technical Specifications:
- Measuring range: -40 to 150°C (-40 to 302°F)
- Output signal: Analog (1-wire) output
- Ambient temperature: -40 to 85°C (-40 to 185°F)
- Ingress protection: IP67
- Process connection: M18 x 1.5
- Material: Stainless steel
5. Applications:
- The IFM TN2511 temperature sensor is suitable for a variety of industrial applications, such as:
- Process control
- HVAC systems
- Machinery monitoring
- General temperature measurement and monitoring
6. Installation and Configuration:
- The sensor can be installed using the M18 process connection.
- Electrical connection is made through the analog (1-wire) output.
- Configuration and setup may be required depending on the specific application and control system integration.
7. Certifications and Approvals:
- The IFM TN2511 sensor is generally designed to meet relevant industrial standards and regulations, but the exact certifications may vary based on the specific model and region of use.
In summary, the IFM TN2511 TN-045KCBD18-MFPKG/US/ is a compact, stainless steel temperature sensor with an analog (1-wire) output and M18 connection, suitable for various industrial temperature measurement and monitoring applications. Please let me know if you have any other questions.
Product characteristics

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1	
Measuring range	-50...150 °C	-58...302 °F

Communication interface	IO-Link
Process connection	threaded connection M18 x 1,5 internal thread
Installation length EL [mm]	45

Application

Special feature	Gold-plated contacts
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)
Media	liquids and gases
Pressure rating [bar]	300
Minimum installation depth [mm]	12

Electrical data

Operating voltage [V]	18...32 DC; ("supply class 2" to cULus)
Current consumption [mA]	< 50
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	1
Integrated watchdog	yes

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 1; Number of analogue outputs: 1

Outputs

Total number of outputs	2
Output signal	switching signal; analogue signal; IO-Link; (configurable)
Electrical design	PNP/NPN
Number of digital outputs	1
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Number of analogue outputs	1

Analogue current output [mA]	4...20
Max. load [Ω]	500
Analogue voltage output [V]	0...10
Min. load resistance [Ω]	2000
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Measuring/setting range

Probe length [mm]	45	
Measuring range	-50...150 °C	-58...302 °F
Factory setting	-40...150 °C / -40...302 °F	
Setpoint SP	-49.8...150 °C	-57.6...302 °F
Resetpoint rP	-50...149.8 °C	-58...301.6 °F

Analogue start point		
	-50...145 °C	-58...293 °F
Analogue end point		
	-45...150 °C	-49...302 °F
Insteps of		
	0.1 °C	0.1 °F

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