



## IFM Pressure sensor with display PN3094 PN-010-RER14-MFRKG/US/ /V

Our Product Introduction

### Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: PN3094
- 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

- Model: IFM Temperature Sensors
- Response Time:  $\leq 10$  Ms
- Output: Analog Or Digital
- Operating Temperature Range:  $-25$  To  $85^{\circ}\text{C}$
- Mounting Type: Threaded
- Cable Length: 2 M
- Measurement Range:  $-50$  To  $150^{\circ}\text{C}$
- Protection Rating: IP67
- Special Features: High Accuracy And Fast Response Time
- Sensor Type: Pt100
- Accuracy:  $\pm 0.2^{\circ}\text{C}$
- Connection Type: M12 Connector
- Supply Voltage: 10 To 30 VDC
- Product Type: Temperature Sensors



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## Product Description

IFM Pressure sensor with display PN3094 PN-010-RER14-MFRKG/US/ /V

Okay, let's take a closer look at the IFM Pressure Sensor with Display PN3094 PN-010-RER14-MFRKG/US/ /V:

1. Product Name:

- IFM Pressure Sensor with Display

2. Model Number:

- PN3094 PN-010-RER14-MFRKG/US/ /V

3. Description:

- This is a pressure sensor from IFM Electronics that features an integrated digital display.

- It is designed for monitoring and measuring pressure in various industrial applications.

4. Key Features:

- Measurement range of 0 to 10 bar (0 to 145 PSI)

- Accuracy of  $\pm 1\%$  of full scale

- Integrated 4-digit LED display with 7-segment digits

- Adjustable switching points and hysteresis

- Rugged, IP67-rated housing for industrial environments

5. Applications:

- This pressure sensor is suitable for a variety of industrial applications, including:

- Pneumatic systems

- Hydraulic systems

- Compressors

- Pumps

- Process control

6. Connectivity:

- The sensor features a 4-wire, M12 connector for electrical connection.

- It can be easily integrated into industrial control systems and PLC (Programmable Logic Controller) environments.

7. Capabilities:

- Pressure measurement range of 0 to 10 bar (0 to 145 PSI)

- Analog output signal (4-20 mA or 0-10 V)

- Two programmable switching outputs

- Ability to set switching points and hysteresis

8. Compatibility:

- The PN3094 PN-010-RER14-MFRKG/US/ /V pressure sensor is designed to be compatible with a wide range of industrial automation systems and control equipment.

- It can be easily integrated into various industrial control networks and architectures.

The key features of this pressure sensor are the integrated digital display, the wide measurement range, and the IP67-rated housing. These make it suitable for use in demanding industrial environments where clear pressure readout and reliable performance are required.

The two programmable switching outputs and the analog output signal provide flexibility in integrating the sensor into control systems and automating pressure monitoring and control tasks.

Overall, the IFM Pressure Sensor with Display PN3094 PN-010-RER14-MFRKG/US/ /V is a versatile and robust solution for pressure measurement and monitoring in a variety of industrial applications.

Please let me know if you have any other questions!

Product characteristics

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s

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

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s  
u  
r  
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g  
r  
a  
n  
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-1...10 bar	-14.5...145 psi	-0.1...1 MPa
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threaded connection G 1/4 internal thread M6 I

Application

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Gold-plated contacts

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ceramic-capacitive pressure measuring cell

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liquids and gases

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-25...80

M i n - b u r s t i n g p r e s s u r e	150 bar	2175 psi	15 MPa
P r e s s u r e r a t i n g	75 bar	1087 psi	7.5 MPa
V a c u u m r e s i s t a n c e [ m b a r]	-1000		
T y p e o f p r e s s u r e	relative pressure; vacuum		

Electrical data

<b>Operating voltage [V]</b>	18...30 DC; (to SELV/PELV)
<b>Current consumption [mA]</b>	< 35
<b>Min. insulation resistance [MΩ]</b>	100; (500 V DC)
<b>Protection class</b>	III
<b>Reverse polarity protection</b>	yes
<b>Power-on delay time [s]</b>	< 0.3
<b>Integrated watchdog</b>	yes

Inputs / outputs

<b>Number of inputs and outputs</b>	Number of digital outputs: 1; Number of analogue outputs: 1
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Outputs

<b>Total number of outputs</b>	2
<b>Output signal</b>	switching signal; analogue signal; IO-Link; (configurable)
<b>Electrical design</b>	PNP

<b>Number of digital outputs</b>	1
<b>Output function</b>	normally open / normally closed; (parameterisable)
<b>Max. voltage drop switching output DC [V]</b>	2.5
<b>Permanent current rating of switching output DC [mA]</b>	150; (200 (...60 °C) 250 (...40 °C))
<b>Switching frequency DC [Hz]</b>	< 170
<b>Number of analogue outputs</b>	1
<b>Analogue current output [mA]</b>	4...20; (0 bar = 4 mA; 10 bar = 20 mA)
<b>Max. load [<math>\Omega</math>]</b>	500
<b>Analogue voltage output [V]</b>	0...10; (0 bar = 0 V; 10 bar = 10 V)
<b>Min. load resistance [<math>\Omega</math>]</b>	2000
<b>Short-circuit protection</b>	yes
<b>Type of short-circuit protection</b>	pulsed
<b>Overload protection</b>	yes
Measuring/setting range	



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