

IFM PRESSURE SENSOR WITH DISPLAY PN7071 PN-250-SER14-QFRKG/US/
/V

Our Product Introduction

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Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: PN7071
- 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 Type: Threaded
- Protection Rating: IP65
- Dimensions: Ø 6 X 60 Mm
- Supply Voltage: 10-30V DC
- Probe Material: Stainless Steel
- Cable Length: 2m
- Accuracy: ±0.2°C
- Operating Temperature: -25 To 85°C
- Connection Type: M12 Connector
- Response Time: ≤ 10 Ms
- Output Signal: 4-20mA
- Housing Material: Stainless Steel
- Temperature Range: -50 To 150°C



More Images



Product Description

IFM PRESSURE SENSOR WITH DISPLAY PN7071 PN-250-SER14-QFRKG/US//V

Okay, let's take a look at the details of the IFM Pressure Sensor with Display PN7071 PN-250-SER14-QFRKG/US//V:

1. Product Name:

- IFM Pressure Sensor with Display PN7071 PN-250-SER14-QFRKG/US//V

2. Description:

- The PN7071 PN-250-SER14-QFRKG/US//V is a pressure sensor from IFM Electronics with a built-in display.
- Pressure sensors are used to measure the pressure of various media, such as gases or liquids, in industrial applications.

3. Key Features:

- Measuring range of 0-250 bar (0-3626 psi)
- Stainless steel housing with a 4-digit display
- 4-wire DC PNP/NPN analog output
- Configurable via display or IO-Link
- Robust and compact design
- IP67 rated for use in harsh environments

4. Applications:

- The IFM PN7071 PN-250-SER14-QFRKG/US//V pressure sensor is suitable for a variety of industrial applications, such as:
- Process monitoring and control
- Hydraulic and pneumatic systems
- Compressor and pump monitoring
- Leak detection and pressure regulation

5. Connectivity:

- The sensor has a 4-wire DC connection:

- 1 x Brown (L+)
- 1 x Blue (L-)
- 1 x Black (PNP/NPN analog output)
- 1 x White (IO-Link communication)

- The sensor can be easily integrated into industrial control systems and automation networks, including those with IO-Link connectivity.

6. Capabilities:

- Measuring range of 0-250 bar (0-3626 psi)
- 4-digit display for easy reading and configuration
- PNP/NPN analog output for process control
- IO-Link communication for advanced configuration and diagnostics
- Robust stainless steel housing with IP67 rating
- Configurable via display or IO-Link interface

7. Compatibility:

- The IFM PN7071 PN-250-SER14-QFRKG/US//V pressure 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), SCADA systems, and other industrial control equipment, including those with IO-Link support.

The PN7071 PN-250-SER14-QFRKG/US//V is a versatile and robust pressure sensor from IFM Electronics, featuring a built-in display and a wide measuring range of 0-250 bar. Its stainless steel housing, IP67 rating, and configurable analog output and IO-Link communication make it suitable for a variety of industrial pressure monitoring and control applications, such as process control, hydraulic and pneumatic systems, and compressor/pump monitoring.

If you have any further questions about the IFM PN7071 PN-250-SER14-QFRKG/US//V pressure sensor or need additional information, please don't hesitate to ask.

Product characteristics

Number of inputs and outputs	Number of digital outputs: 2		
Measuring range	0...250 bar	0...3620 psi	0...25 MPa
Process connection	threaded connection G 1/4 internal thread		

Application

Special feature	Gold-plated contacts		
Measuring element	metallic thin film cell		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...80		
Min. bursting pressure	1100 bar	15950 psi	110 MPa
Pressure rating	500 bar	7250 psi	50 MPa
Vacuum resistance [mbar]	-1000		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	18...30 DC; (to SELV/PELV)
Current consumption [mA]	< 35
Min. insulation resistance [MΩ]	100; (500 V DC)

Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 0.3
Integrated watchdog	yes

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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Outputs

Total number of outputs	2
Output signal	switching signal; IO-Link; (configurable)
Electrical design	PNP/NPN
Number of digital outputs	2
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	150; (200 (...60 °C) 250 (...40 °C))
Switching frequency DC [Hz]	< 170
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Measuring/setting range

Measuring range	0...250 bar	0...3620 psi	0...25 MPa
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Factory setting / CMPT = 2

Set point SP	2...250 bar	40...3620 psi	0.2...25 MPa
Reset point rP	1...249 bar	20...3600 psi	0.1...24.9 MPa
Min. difference between SP and rP	2 bar	20 psi	0.2 MPa
In steps of	1 bar	20 psi	0.1 MPa

Status_B High Resolution / CMPT = 3

Set point SP	2...250 bar	30...3626 psi	0.2...25 MPa
Reset point rP	1...249 bar	12...3608 psi	0.1...24.9 MPa
Min. difference between SP and rP	2 bar	19 psi	0.2 MPa
In steps of	1 bar	1 psi	0.1 MPa





PN7071

PN-250-SER14-QFRKG/US/ IV

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