



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

Our Product Introduction

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



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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 |
|------------------------------|---------------------------------|

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 |
|-----------------|-------------|--------------|------------|

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

ifm electronic
45128 Essen
Germany
www.ifm.com



IND. CONT.
EQ. 11MA
US LISTED

J003

Made in Germany



Shenzhen Voboal Industrial Automation Co., Ltd.



+8613760462017



sale@voboal.com



plcsimatic.com

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