OEM IFM PV7002 Pressure Switch Sensor Distributors PV-100-SEG14-UFRVG/US/ /

Our Product Introduction

Basic Information

- Place of Origin: Germany
- Brand Name: IFM
- Certification: CE
- Model Number: PV7002
- 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

- Protection Rating: IP67
- Pressure Port: Axial
- Pressure Reference: Absolute
- Process Connection: G 1/4
- Electrical Connection: M12 Connector
- Operating Temperature: -25 To 85 Degrees Celsius
- Measurement Range: -1 To 0 Bar
- Supply Voltage: 10-30 VDC
- Response Time: 10 Ms
- Housing Material: Stainless Steel
- Output Type: Analog
- Mounting Type: Threaded
- Accuracy: +/- 0.5% Of Full Scale
- Special Features: High Overload Protection
- Highlight: **OEM ifm pv7002**, **ifm pv7002 Switch**,

Product Description

IFM Pressure switch with IO-Link PV7002 PV-100-SEG14-UFRVG/US/ /
The IFM PV7002 PV-100-SEG14-UFRVG/US/P is a pressure switch with IO-Link functionality. Here's some information about the pressure switch:
1. Model: PV7002 PV-100-SEG14-UFRVG/US/P
2. Manufacturer: IFM Electronic GmbH
3. Function: The pressure switch is designed to monitor and control the pressure of a fluid in a system or process. It allows for the detection of specific pressure thresholds and can trigger actions or signals based on those thresholds.
4. Pressure Measurement Range: The specific pressure measurement range of the switch depends on the model variant. Unfortunately, the provided model number does not contain information about the pressure range. It's recommended to refer to the product documentation or datasheet for the exact pressure measurement range of this particular model.
5. IO-Link Functionality: The pressure switch is equipped with IO-Link, which is a communication protocol that allows for bi-directional communication between the switch and a controller or other devices. IO-Link enables enhanced configuration, monitoring, and diagnostics capabilities for the pressure switch.
6. Electrical Connection: The switch supports a specific electrical connection type, indicated by the "/US/P" in the model name. The "/US" may represent a connector or electrical connection type compatible with the US market, while the "/P" could indicate additional details regarding the electrical connection or functionality. For precise information, it's best to consult the product documentation or datasheet.
7. Housing Type: The pressure switch is likely housed in a robust enclosure suitable for industrial environments. The specific details of the housing type or design are not evident from the provided model number.
For detailed specifications, installation guidelines, and compatibility information for the IFM PV7002 PV-100-SEG14-UFRVG/US/P pressure switch with IO-Link functionality, it is recommended to consult the official documentation provided by IFM Electronic GmbH or contact their technical support. They will be able to provide you with accurate and up-to-date information based on your specific requirements and the latest product information available.

Product characteristics

Number of inputs and outputs	Number of digital outputs: 2		
Measuring range	0...100 bar	0...1450 psi	0...10 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2); internal thread:M5		

Application

Measuring element	metallic thin film cell
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-40...90
Min. bursting pressure	1000 bar / 14500 psi / 100 MPa
Pressure rerating	250 bar / 3625 psi / 25 MPa

Note on pressure rating	static
Vacuum resistance [mbar]	-1000
Type of pressure	relative pressure

Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 15
Min. insulation resistance [MΩ]	100; (500 V DC)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	< 0.3

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
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	< 170
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Measuring/setting range

Measuring range			
0...100 bar	0...1450 psi	0...10 MPa	
Set point SP			
1...100 bar	15...1450 psi	0.1...10 MPa	
Reset point rP			
0.5...99.5 bar	7...1443 psi	0.05...9.95 MPa	
Insteps of			
0.05 bar	1 psi	0.005 MPa	
Factory setting			
SP1 = 25 bar	rP1 = 23 bar	ou1 = Hno;	
SP2 = 75 bar	rP2 = 73 bar	ou2 = Hno;	
dS1/dS2 = 0 ms	dr1/dr2 = 0 ms		
coF = 0 %	P-n = PnP	dAP= 60 ms	

Accuracy / deviations

Switch point accuracy [% of the span]	< ± 0,5 (nach DIN EN 61298-2)
Repeatability [% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	< ± 0,5; (linearity incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)
Linearity deviation [% of the span]	< ± 0,1 (BFSL) / < ± 0,2 (LS)
Hysteresis deviation [% of the span]	< ± 0,2
Long-term stability [% of the span]	< ± 0,1; (per 6 months)
Temperature coefficient zero point [% of the span / 10 K]	< 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)
Temperature coefficient span [% of the span / 10 K]	< 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)

Response times

Response time [ms]	< 3

Software / programming

Parameter setting options	hysteresis / window; normally open / normally closed; switching logic; switch-on/switch-off delay; Damping

Interfaces

Communication interface	IO-Link
Transmission type	COM2 (38,4 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9
Profiles	Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis
SIO mode	yes

Requiredmasterporttype	A
Processdataanalogue	2
Processdatabinary	2
Min.processcycletime[ms]	5

SupportedDevicelDs

Type of operation	DeviceID
default	710

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