ISE10-M5-C-M SMC 0-1MPa M5x0.8 NPN/Analog Digital Pressure Switch Datasheet

Brand: SMC

SKU: 1043609893383

Category: Process Sensors

Price: **$71.43**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/ise10-m5-c-m-smc-0-1mpa-m5x0-8-npn-analog-digital-pressure-switch

Product Description

SMC ISE10-M5-C-M is a compact digital pressure switch measuring 9.8 mm in width, featuring a 0 to 1 MPa rated pressure range and an M5 x 0.8 female threaded piping port. The unit incorporates a 3-digit LCD display with a 3-color backlight for real-time status monitoring. Internal circuitry consists of an NPN open collector output combined with a 1 to 5 V analog voltage output, operating on a 12 to 24 VDC supply. The housing is constructed from PBT and stainless steel, utilizing a silicon pressure sensor for high-precision detection with a repeatability of ±0.2 % F.S. or less.

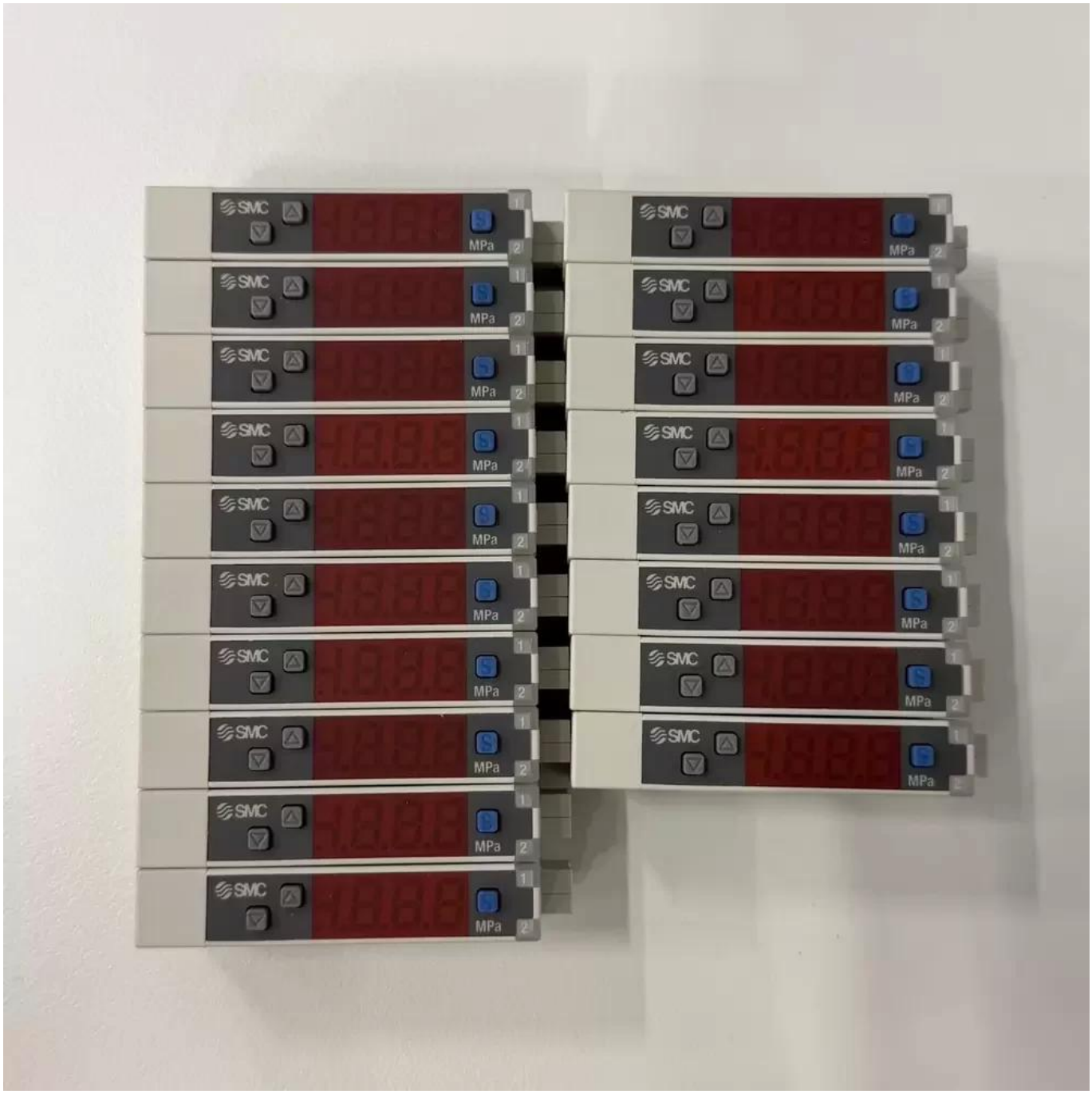
ISE10-M5-C-M Specifications
Model: ISE10-M5-C-M
Brand: SMC
Pressure Type: Positive Pressure
Rated Pressure Range: 0 to 1.000 MPa
Set Pressure Range: -0.1 to 1.000 MPa
Withstand Pressure: 1.5 MPa
Minimum Display Unit: 0.001 MPa
Power Supply Voltage: 12 to 24 VDC
Current Consumption: 40 mA or less

Switch Output: NPN Open Collector (1 Output)
Max Load Current: 80 mA
Max Applied Voltage: 28 V
Residual Voltage: 1 V or less
Analog Output: 1 to 5 V
Response Time: 2.5 ms or less
Repeatability: ±0.2 % F.S.
Display: 3-digit LCD, 3-color (Red/Green/Orange)
Piping Port: M5 x 0.8 (Female thread)
Enclosure Rating: IP40
Operating Temperature: -5 to 50 °C
Storage Temperature: -10 to 60 °C
Operating Humidity: 35 to 85 % RH
Material: PBT and Stainless Steel
Weight: 30 g

ISE10-M5-C-M Applications

Primary applications include integration into semiconductor manufacturing equipment, pneumatic pick-and-place robotic arms, and automated assembly lines for real-time line pressure monitoring. Deployed within compact manifold blocks and solenoid valve control systems to ensure precise pressure regulation in space-constrained industrial automation environments.

Supplemental Images


SMC
MPa