SM5231-BCE-S-010.00-431 ✔ ACTIVE

MEAS | SMI 5000

TE Internal #: 5231-BCE-S-010-000

Analog Pressure Sensor Modules / Digital Pressure and Altimeter Sensor Modules, Gauge, 1.45 psi, 16 bit I2C, SMI 5000

View on TE.com >

Sensors > Pressure Sensors > Board Mount Pressure Sensors > Low Pressure Digital / Analog Sensor



Pressure Sensor Type: **Analog Pressure Sensor Modules, Digital Pressure and Altimeter Sensor Modules**

Pressure Type: **Gauge**

Proof Pressure Range: **15 psi**

Pressure: **[1.45 psi]**

Output Signal Type: **16 bit I2C**

All Low Pressure Digital / Analog Sensor (38)

Features

Product Type Features

Sensor Package	SOIC-16
Pressure Sensor Type	Analog Pressure Sensor Modules, Digital Pressure and Altimeter Sensor Modules
Pressure Type	Gauge

Electrical Characteristics

Supply Voltage Range	3.3 – 5 V

Dimensions

Product Width	10.31 mm[.405 in]
Product Length	10.26 mm[.403 in]
Product Height	9.32 mm[.366 in]

Usage Conditions

Operating Temperature Range	-40 – 105 °C[-40 – 221 °F]

Operation/Application

Output Interface	I^2C
Proof Pressure Range	15 psi
	1.45 psi

Output Signal Type	16 bit I2C
Pressure Accuracy	±1% F.S, ±1.5% F.S

Packaging Features

Sensor Port Configuration	Dual Vertical

Other

Sensor Options	Dual Output, Tube

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JAN 2024 (240) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

Also in the Series | SMI 5000



Board Mount Pressure Sensors(14)

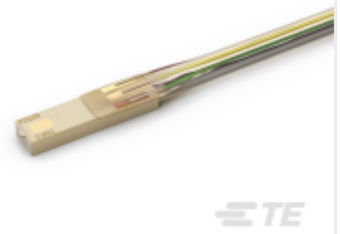
Customers Also Bought



TE Part #7391-BCE-S-500-000
Low Pressure Digital / Analog Sensor



TE Part #9333-BCE-S-125-000
125PA DIFF. DIGITAL PRESSURE SENSOR



TE Part #SMI-1B-48-100-BMAR
Calibrated IntraSense



TE Part #9541-010C-D-C-3-S
PRESSURE 0.15 PSID I2C SO16



TE Part #9541-100C-D-C-3-S
PRESSURE I2C 1.5 PSID SO16

TE Part #30F-HND-005S-0000A
5PSI, CLOSED BRIDGE, STD PADS

TE Part #30G-HID-015S-0010A
15PSI, CLOSED BRIDGE, PT PADS



TE Part #9541-040C-D-C-3-S
PRESSURE I2C 0.6 PSID SO16

Documents

CAD Files

Customer View Model
ENG_CVM_CVM_5231-BCE-S-010-000_1.2d_dxf.zip

English

Customer View Model
ENG_CVM_CVM_5231-BCE-S-010-000_1.3d_stp.zip

English

Customer View Model
ENG_CVM_CVM_5231-BCE-S-010-000_1.3d_igs.zip

English

3D PDF

3D

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Datasheets & Catalog Pages

SM7000SM6000SM5000

English

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

175020-1 620144-000 SMF71K6JT 917700-1 T2020001005-000 T4110001051-000 1-178140-5 2840451-1 9-1318119-3 TAD1483A201-002 1-178128-4 1-179554-3 1376477-4 175024-1 1877285-7 2388278-1 353715-2 172495-1 2267795-2 T4113011021-000 1-480701-0 2303206-4 2425753-2 59803-1 T1330060132-000 1-1123722-3 178964-5 2071556-7 937313-1 AKUA876NN0085152A000