

Ceraphant® PTP31B Series Digital Pressure Sensors

Part No. [PTP31B-CA7M1FGFVXJ](#)

Features

- Ideal for industrial pressure measurement and indication in gas, liquid, and vapor applications
- Measuring ranges from 6 psig up to 6000 psig
- Selectable engineering units include psi, bar, kPa, MPa
- The dual 1/2" NPT male / 1/4" NPT female process connection allows for direct installation without requiring extra fittings
- Models available with 2 solid state switch outputs providing a reliable alternative to mechanical pressure switches
- Models available with both an analog 4-20mA output and solid state switch output for use as a combination pressure switch and transmitter
- Built-in one line 4-digit LCD display shows measured values, fault messages and information messages. The display background will show white or red indicating device status.
- Displayed value can be rotated 180° for installation flexibility
- 3 bright LEDs indicate device and output status
- Simple pushbutton setup for easy and quick configuration prior to installation without the need for a separate pressure reference gauge
- Stainless steel housing allows for a high IP67 ingress protection rating
- 4-pin M12 electrical connection
- IO-Link connectivity



For a variety of cable options see our website www.AutomationDirect.com

Ceraphant PTP31B Digital Pressure Sensor Selection

| Part Number | Price | Weight (lb) | Pressure Range (psig) | Max Working Pressure (psig) | Over Pressure Limit (psig) | Accuracy | Sensing Element | Output 1 | Output 2 | Process Connection | Electrical Connection |
|------------------------------------|----------|-------------|-----------------------|-----------------------------|----------------------------|----------------------|-----------------|------------------------------------|---|------------------------------------|----------------------------|
| PTP31B-CA7M1FGFVXJ | \$572.00 | 1.0 | 0 to 6 | 15 | 24 | ± 0.5% of full range | 316L (1.4435) | 4-20 mA | Switch PNP, N.O. / N.C. selectable or IO-Link | 1/2in male NPT or 1/4in female NPT | 4-pin M12 quick-disconnect |
| PTP31B-CA7M1HGFVXJ | \$572.00 | 1.0 | 0 to 15 | 40.5 | 62 | | | | | | |
| PTP31B-CA7M1KGFVXJ | \$572.00 | 1.0 | 0 to 30 | 100.5 | 150 | | | | | | |
| PTP31B-CA7M1MGFVXJ | \$572.00 | 1.0 | 0 to 60 | 160.5 | 240 | | | | | | |
| PTP31B-CA7M1PGFVXJ | \$572.00 | 1.0 | 0 to 150 | 375 | 600 | | | | | | |
| PTP31B-CA7M1SGFVXJ | \$572.00 | 1.0 | 0 to 600 | 1500 | 2400 | | | | | | |
| PTP31B-CA7M1UGFVXJ | \$572.00 | 1.0 | 0 to 1500 | 1500 | 2400 | | | | | | |
| PTP31B-CA7M1WGFVXJ | \$572.00 | 1.10 | 0 to 6000 | 6000 | 9000 | | | | | | |
| PTP31B-CA8M1FGFVXJ | \$487.00 | 1.0 | 0 to 6 | 15 | 24 | ± 0.5% of full range | 316L (1.4435) | Switch PNP, N.O. / N.C. selectable | Switch PNP, N.O. / N.C. selectable or IO-Link | 1/2in male NPT or 1/4in female NPT | 4-pin M12 quick-disconnect |
| PTP31B-CA8M1HGFVXJ | \$487.00 | 1.0 | 0 to 15 | 40.5 | 62 | | | | | | |
| PTP31B-CA8M1KGFVXJ | \$487.00 | 1.0 | 0 to 30 | 100.5 | 150 | | | | | | |
| PTP31B-CA8M1MGFVXJ | \$487.00 | 1.0 | 0 to 60 | 160.5 | 240 | | | | | | |
| PTP31B-CA8M1PGFVXJ | \$487.00 | 1.0 | 0 to 150 | 375 | 600 | | | | | | |
| PTP31B-CA8M1SGFVXJ | \$487.00 | 1.0 | 0 to 600 | 1500 | 2400 | | | | | | |
| PTP31B-CA8M1UGFVXJ | \$487.00 | 1.0 | 0 to 1500 | 1500 | 2400 | | | | | | |
| PTP31B-CA8M1WGFVXJ | \$487.00 | 1.10 | 0 to 6000 | 6000 | 9000 | | | | | | |

Some units may be marked with a max working pressure (MWP) below the sensors upper range limit. This is a CSA approval limitation and does not impact the practical working range of the device. Please reference and follow all standards required for an application and/or by applicable laws and regulations.

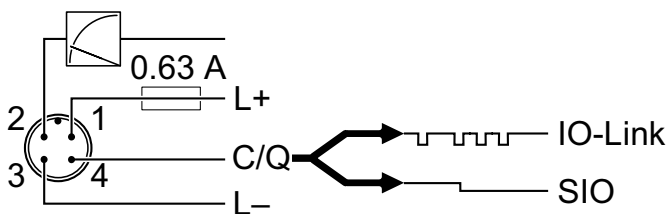
For complete technical information and installation see Vendor Tech Specs and Vendor Manual links.

Ceraphant® PTP31B Series Digital Pressure Sensors

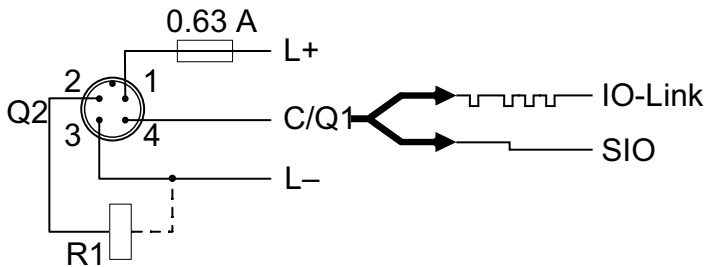
| Ceraphant PTP31B Digital Pressure Sensor Resources | | | | | |
|--|---------------------|---------------------------------|-------------------------|---------------------|---------------------------|
| Part Number | Drawing Link | Vendor Technical Specifications | Vendor Operating Manual | Vendor Insert | IO-Link Quick Start Guide |
| PTP31B-CA7M1FGFVXJ | PDF | PDF | PDF | PDF | PDF |
| PTP31B-CA7M1HGFVXJ | PDF | | | | |
| PTP31B-CA7M1KGFVXJ | PDF | | | | |
| PTP31B-CA7M1MGFVXJ | PDF | | | | |
| PTP31B-CA7M1PGFVXJ | PDF | | | | |
| PTP31B-CA7M1SGFVXJ | PDF | | | | |
| PTP31B-CA7M1UGFVXJ | PDF | | | | |
| PTP31B-CA7M1WGFVXJ | PDF | | | | |
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| PTP31B-CA8M1PGFVXJ | PDF | | | | |
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| PTP31B-CA8M1UGFVXJ | PDF | | | | |
| PTP31B-CA8M1WGFVXJ | PDF | | | | |

For complete technical information and installation see Vendor Tech Specs and Vendor Manual links.

PTP31B Series Wiring Examples



1 x analog / 1 x PNP or IO-Link



1 x PNP / 1 x PNP or IO-Link