

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.

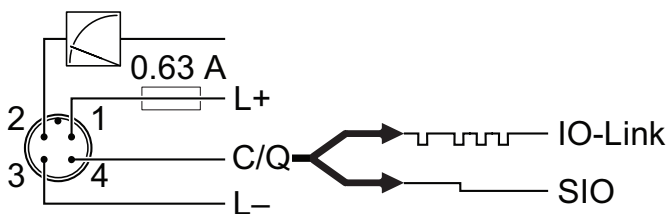
For complete technical information and installation see Vendor Tech Specs and Vendor Manual links.

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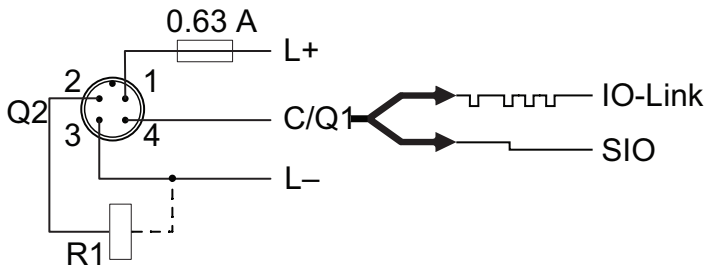
Ceraphant PTP31B Digital Pressure Sensor Resources					
Part Number	Drawing Link	Vendor Technical Specifications	Vendor Operating Manual	Vendor Insert	IO-Link Quick Start Guide
PTP31B-CA7M1FGFVXJ	PDF	PDF	PDF	PDF	PDF
PTP31B-CA7M1HGFVXJ	PDF				
PTP31B-CA7M1KGFVXJ	PDF				
PTP31B-CA7M1MGFVXJ	PDF				
PTP31B-CA7M1PGFVXJ	PDF				
PTP31B-CA7M1SGFVXJ	PDF				
PTP31B-CA7M1UGFVXJ	PDF				
PTP31B-CA7M1WGFVXJ	PDF				
PTP31B-CA8M1FGFVXJ	PDF	PDF	PDF	PDF	PDF
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PTP31B-CA8M1PGFVXJ	PDF				
PTP31B-CA8M1SGFVXJ	PDF				
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