

# 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](http://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
<a href="#">PTP31B-CA7M1FGFVXJ</a>	\$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
<a href="#">PTP31B-CA7M1HGFVXJ</a>	\$572.00	1.0	0 to 15	40.5	62						
<a href="#">PTP31B-CA7M1KGFVXJ</a>	\$572.00	1.0	0 to 30	100.5	150						
<a href="#">PTP31B-CA7M1MGFVXJ</a>	\$572.00	1.0	0 to 60	160.5	240						
<a href="#">PTP31B-CA7M1PGFVXJ</a>	\$572.00	1.0	0 to 150	375	600						
<a href="#">PTP31B-CA7M1SGFVXJ</a>	\$572.00	1.0	0 to 600	1500	2400						
<a href="#">PTP31B-CA7M1UGFVXJ</a>	\$572.00	1.0	0 to 1500	1500	2400						
<a href="#">PTP31B-CA7M1WGFVXJ</a>	\$572.00	1.10	0 to 6000	6000	9000						
<a href="#">PTP31B-CA8M1FGFVXJ</a>	\$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
<a href="#">PTP31B-CA8M1HGFVXJ</a>	\$487.00	1.0	0 to 15	40.5	62						
<a href="#">PTP31B-CA8M1KGFVXJ</a>	\$487.00	1.0	0 to 30	100.5	150						
<a href="#">PTP31B-CA8M1MGFVXJ</a>	\$487.00	1.0	0 to 60	160.5	240						
<a href="#">PTP31B-CA8M1PGFVXJ</a>	\$487.00	1.0	0 to 150	375	600						
<a href="#">PTP31B-CA8M1SGFVXJ</a>	\$487.00	1.0	0 to 600	1500	2400						
<a href="#">PTP31B-CA8M1UGFVXJ</a>	\$487.00	1.0	0 to 1500	1500	2400						
<a href="#">PTP31B-CA8M1WGFVXJ</a>	\$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.

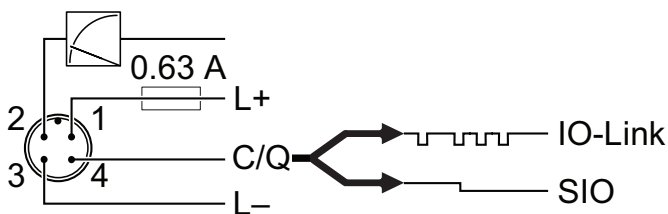
For complete technical information and installation see Vendor Tech Specs and Vendor Manual links.

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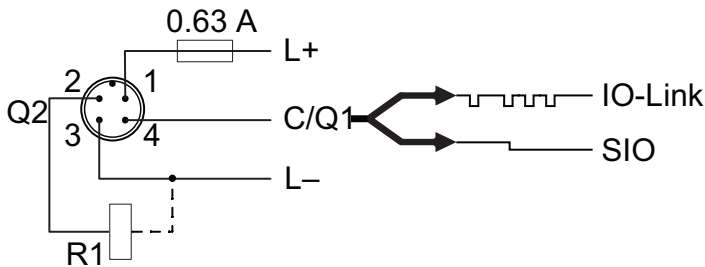
Ceraphant PTP31B Digital Pressure Sensor Resources					
Part Number	Drawing Link	Vendor Technical Specifications	Vendor Operating Manual	Vendor Insert	IO-Link Quick Start Guide
<a href="#">PTP31B-CA7M1FGFVXJ</a>	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
<a href="#">PTP31B-CA7M1HGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA7M1KGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA7M1MGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA7M1PGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA7M1SGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA7M1UGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA7M1WGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA8M1FGFVXJ</a>	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
<a href="#">PTP31B-CA8M1HGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA8M1KGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA8M1MGFVXJ</a>	<a href="#">PDF</a>				
<a href="#">PTP31B-CA8M1PGFVXJ</a>	<a href="#">PDF</a>				
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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