

TURCK

Pressure Sensors

PT4400 Pressure Sensor, Class I, Div. 1, Groups C & D

- **UL/cUL 913 (CSA 157) Class I, Div. 1, Groups C & D when installed with an approved barrier**
- **High strength stainless steel construction**
- **Ranges up to 10,000 PSI**
- **Compatible with wide range of liquids and gases**
- **EMI/RFI Protection**
- **No oil, welds or internal O-rings**



The PT4400 is a media isolated stainless steel pressure sensor with a wide variety of options. Approved for use in Class I, Div. 1 applications, the PT4400 is the solution for pressure measurement in intrinsically safe areas.

Applications

Pneumatics	Water management
Industrial OEM equipment	Hydraulic systems
Control panels	Data loggers
HVAC/R equipment	Hydrogen storage (316L SS)

Performance @25°C (77°F)

Accuracy*	<±0.25% BFSL
Stability (1 year)	±0.25%FS, typ
Over range protection	2X rated pressure
Burst pressure	5X or 20,000 psi (whichever is less)
Pressure cycles	> 100 million

* Accuracy includes non-linearity, hysteresis & non-repeatability

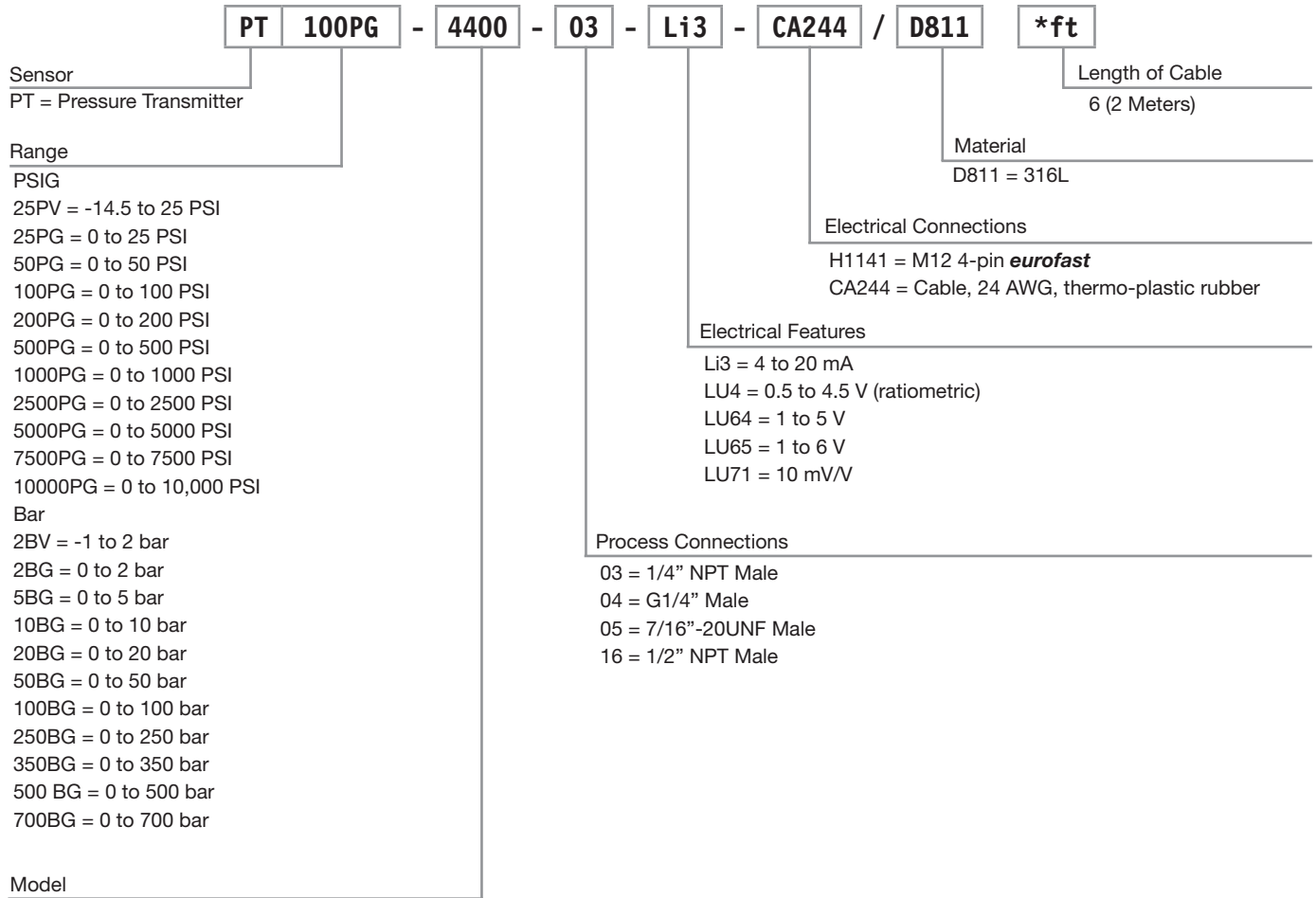
Environmental Data

Operating temperature	-40 to +85°C (-40 to +185°F)
Storage temperature	-40 to +100°C (-40 to +212°F)
Compensated Range	0 to +55°C (30 to +130°F)
TC zero	<±1.5% of FS
TC span	<±1.5% of FS
Vibration test	10G peak, 20 to 2000 Hz
Shock test	100G, 11 msec, 1/2 sine
EMI/RFI protection	Yes
Rating	IP 66

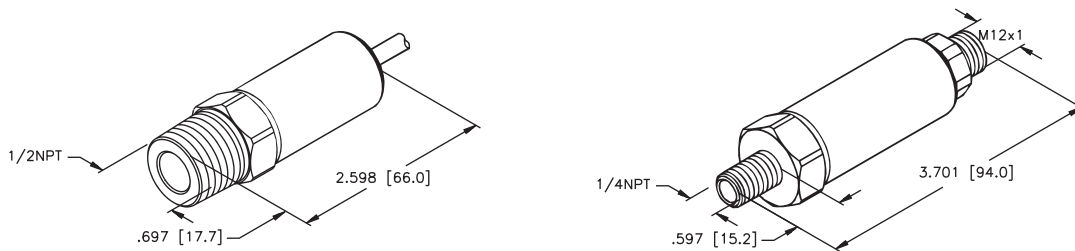
Electrical Data

Output	4-20 mA	1-5 VDC, 1-6 VDC	10mV/V	0.5-4.5 V Ratiometric
Excitation	10-28 VDC	10-28 VDC	5 VDC, typ	5 VDC, typ
Output impedance	>10k Ω	<100 Ω, nominal	1100 Ω, nominal	<100 Ω, nominal
Current consumption	20 mA, typ	<10 mA	<5 mA	<10 mA
Bandwidth	(-3dB): DC to 250 Hz	(-3dB): DC to 1 kHz	(-3dB): DC to 5 kHz, min	(-3dB): DC to 1 kHz
Output noise	-	<2 mV RMS	-	<2 mV RMS
Zero offset	<±1% of FS	<±1% of FS	<±2% of FS	<±1% of FS
Span tolerance	<±2% of FS	<±1.5% of FS	<±2% of FS	<±1.5% of FS
Output load	0-800 Ω @10-28 VDC	10k Ω, min	>1M Ω	10k Ω, min
Reverse polarity protection	Yes	Yes	-	No

Class I, Div. 1 Pressure Transmitters Part Number Key



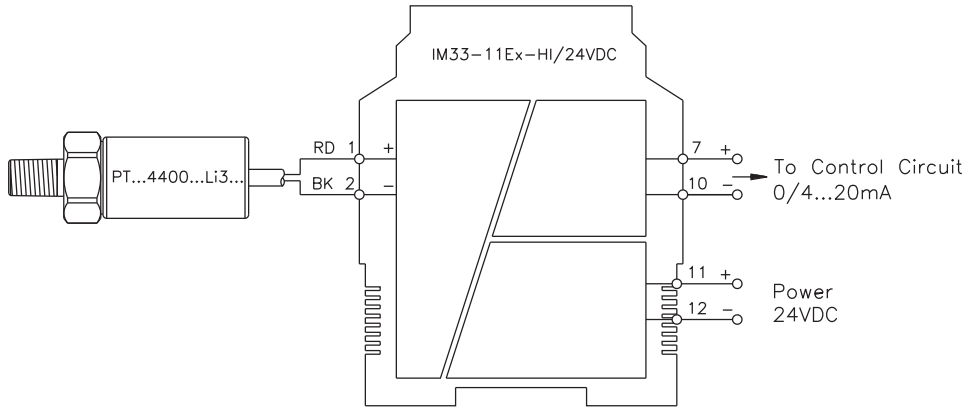
Dimensional Drawings



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Current Outputs

PT4400 Wiring Instructions Using IM33-11EX-HI/24VDC



Voltage Outputs

PT4400 Wiring Instructions Using Zener Diode Barrier MZB87P

