

# CS10 Industrial Pressure Transducer

- High strength sensing element with long term stability
- Pressures up to 40,000 PSI
- Optional integral snubber
- ≤ ±0.25% BFSL accuracy



## **OVERVIEW**

Core Sensors offers the CS10 industrial pressure transducer for various applications. The CS10 uses MEMS silicon strain gages mounted to a stainless steel or nickel alloy sensing element. The ASIC electronics offer analog voltage or 4-20mA loop powered output signals. Various process connections are available in 17-4, 316L or nickel alloy. Electrical connections include cable or various integral connectors. Semi-custom and custom designs are available for OEM applications.

## SPECIFICATIONS

Pressure Range Pressure Type	0 to 40,000 PSI Absolute, Gauge, Sealed, Compound	Accuracy (includes non- linearity, hysteresis, non- repeatability)	$\leq \pm 0.25\%$ FSO BFSL
Overpressure	2x, min	Stability (1 year)	≤ ±0.25% of FS
Burst Pressure	5x or 60,000 PSI, whichever is less	Zero Offset (amplified)	±0.5% typical, ±1% max
Pressure Cycles	100 million	Span Tolerance (amplified)	±0.5% typical, ±1% max
Storage Temperature	-40 to +125°C	Zero Offset (millivolt)	$\leq \pm 2\%$ of FS
Operating Temperature	-40 to +85°C	Span Tolerance (millivolt)	$\leq \pm 2\%$ of FS
Media Temperature	-40 to +120°C	TC Zero	$\leq \pm 1\%$ of FS
Compensated Temperature	0 to +60°C	TC Span	$\leq \pm 1\%$ of FS
EMI/RFI Protection	Yes	Vibration	10g, 20 to 2000Hz
IP Rating	IP65 minimum	Shock	100g, 11msec, 1/2 sine

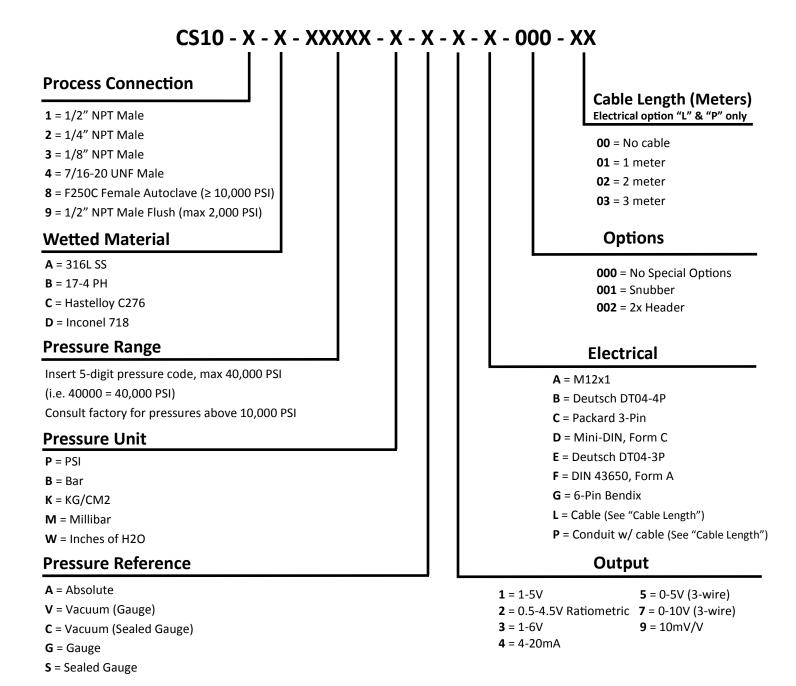
All specifications subject to change without notice

### **ELECTRICAL INFORMATION**

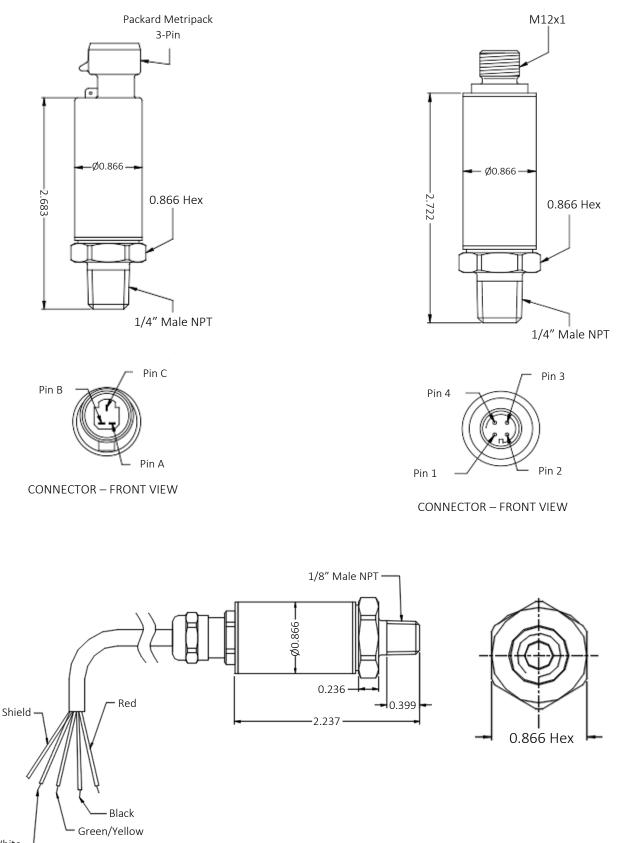
Output	1-5V, 1-6V, 0-5V (3-wire), 4-20mA	0-10V (3-wire)	0.5-4.5V ratiometric	mV/V, millivolt
Power Supply	10-28VDC,	15-28VDC,	5VDC +/-0.5V,	5VDC typical,
Requirements	unregulated	unregulated	regulated	10VDC max

\*For wiring information, visit: http://www.core-sensors.com/wiring/

#### **ORDERING INFORMATION**



## DIMENSIONAL DATA (For reference only)



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