

CS-SM

Steel Mill Pressure Transducer

The CS-SM Steel Mill Pressure Transducer is designed to withstand the rugged demands of the steel mill industry. Standard configuration includes a stainless steel body welded to a high strength stainless steel sensing element offering 4X overpressure protection, integral snubber to protect against pressure transients and an IP69 rating. Electrical connections include integral cable or a 6-Pin Bendix with a variety of output signals and process connections.



Features

- $\leq \pm 0.25\%$ BFSL accuracy
- Pressures up to 350 Bar
- 4X overpressure protection
- IP69 protection against high pressure washdown

Applications

- Stamping
- Roll Forming
- Rolling Mill
- Pumps

SPECIFICATIONS

Performance

Accuracy*	$\leq \pm 0.25\%$ BFSL ($\leq \pm 0.1\%$ optional)
Stability (1 Year)	$\leq \pm 0.25\%$ of FS
Pressure Cycles	>100 million
Overpressure	4X minimum
Burst Pressure	10X or 20,000 PSI, whichever is less

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

Thermal

Operating Temperature	-40 to +100°C
Storage Temperature	-40 to +125°C
Compensated Temperature	+10 to +90°C
TC Zero	$\leq \pm 1\%$ FS
TC Span	$\leq \pm 1\%$ FS

Environmental

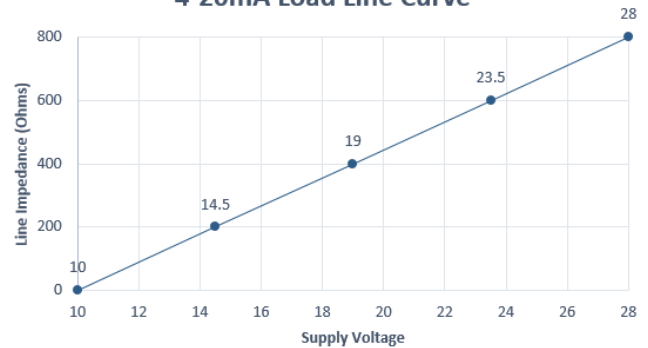
EMI/RFI Protection	Yes - 100 V/m
IP Rating	IP69
Vibration	20g, 20 to 2400Hz
Shock	100g, 11 msec, 1/2 sine

Electrical

Output	4-20mA	0-5V (3-wire)	0-10V (3-wire)
Excitation	10-28VDC	10-28VDC	15-28VDC
Current Consumption	20mA, typical	<10mA	<10mA
Output Load	See Load Line Curve	5K Ohms, min	5K Ohms, min
Frequency Response ($\pm 0.25\%$ accuracy)	~ 1 kHz	~ 1 kHz	~ 1 kHz
Frequency Response ($\pm 0.1\%$ accuracy)	400 Hz	400 Hz	400 Hz
Zero Offset (of FS)	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max	$\leq \pm 0.5\%$ typical $\leq \pm 1\%$ max
Span Tolerance (of FS)	$\leq \pm 1.5\%$ max	$\leq \pm 1.5\%$ max	$\leq \pm 1.5\%$ max

For wiring information, visit <http://www.core-sensors.com/wiring>

4-20mA Load Line Curve



MODEL NUMBER CONFIGURATION

CS-SM- X B XXXXX X S X X XXX -XX

Model Family

CS-SM - Steel Mill Pressure Transducer

Process Connection

2 = 1/4" NPT Male
 4 = 7/16-20 UNF Male
 D = 1/4" Male BSPP

Wetted Material

B = 17-4PH

Pressure Range

Insert 5-digit pressure code, max 350 Bar
 *Contact factory for pressures above 350 Bar

Pressure Unit

P = PSI
 B = Bar

Pressure Reference

S = Sealed Gauge

* Ordering Example: CS-SM-2B00100BS4G000-00 (1/4" NPT Male, 17-4PH, 0-100 Bar, Sealed Gauge, 4-20mA, 6-Pin Bendix)
 * Contact factory for custom configurations not shown

Cable Length (Meters)
 Electrical option "L" only

00 = No cable
 01 = 1 meter
 02 = 2 meters
 03 = 3 meters

Options

000 = No Special Options

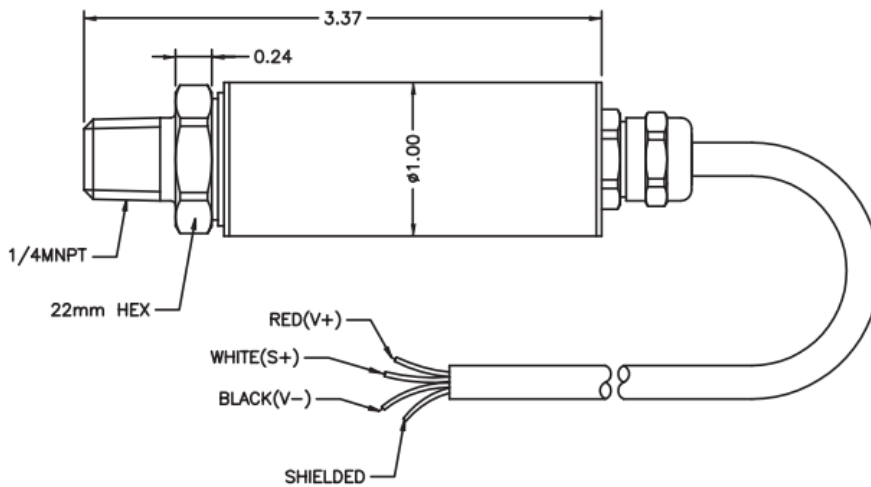
Electrical

G = 6-Pin Bendix
 L = Cable (See "Cable length")

Output

4 = 4-20mA
 5 = 0-5V (3-wire)
 7 = 0-10V (3-wire)

DIMENSIONS



*Dimensions are for reference only



We are committed to delivering the highest quality instrumentation on every order.

Core Sensors warrants that all items shipped will be free of defects in material and workmanship for a period of one (1) year from the date of shipment.

View complete warranty information online at www.core-sensors.com.