













FEATURES

- Differential pressures up to 50 PSI
- Line pressures up to 500 PSI
- Bi-directional pressure ranges available
- Wet/Wet

APPROVALS / CERTIFICATIONS

- ✓ CSA Class I, Division 1, Groups C, D T4
- Class I, Zone O, AEx ia IIB T4 Ga (Ex ia IIB T4 Ga)
- ABS (American Bureau of Shipping)

NOTE: Must use an approved barrier to maintain listed certifications. See $\underline{page}\ 4$ for entity parameters.

COMMON APPLICATIONS

- Filtration
- External fuel tank level measurement
- Compression systems

SPECIFICATIONS

Performance @ 25°	c ———
Accuracy*	$\leq \pm 0.25\%$ BFSL $\leq \pm 0.5\%$ BFSL (2 PSI & below)
Stability (1 Year)	≤ ±0.25% of FS
Pressure Cycles	4 million
Max Line Pressure**	500 PSI
Max Differential Pressure	50 PSI
Overpressure***	2X or 500 PSI, whichever is less, rated differential pressure
Burst Pressure***	3X rated differential pressure

^{*}Accuracy includes non-linearity, hysteresis and non-repeatability

^{***} Overpressure and burst pressure are the maximum differential pressure that can be applied to the high or low side before damage to the sensor will occur.

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Operating Temperature	-40 to +80°C
Operating Temperature (Electrical connection "F", DIN 43650-A)	-20 to +80°C
Media Temperature	-40 to +125°C
Media Temperature (Electrical connection "F", DIN 43650-A)	-40 to +105°C
Compensated Temperature	0 to +55°C
Storage Temperature	-40 to +125°C
TC Zero	$\leq \pm 1\%$ of FS $\leq \pm 2\%$ of FS (2 PSI & below)
TC Span	$\leq \pm 1\%$ of FS $\leq \pm 2\%$ of FS (2 PSI & below)

Environmental	
EMI/RFI Protection	Yes
IP Rating*	IP65 minimum
Vibration	20g, 20 to 5000Hz
Shock	100g. 11msec. 1/2 sine

^{*} IP rating is dependent on electrical termination selected. Contact factory for more information.
* IP rating applies when electrical connector is attached with the appropriate ingress protection.

 $[\]fill ** Max line pressure is the highest common mode pressure that can be applied to the$ sensor without damage.



SPECIFICATIONS continued...

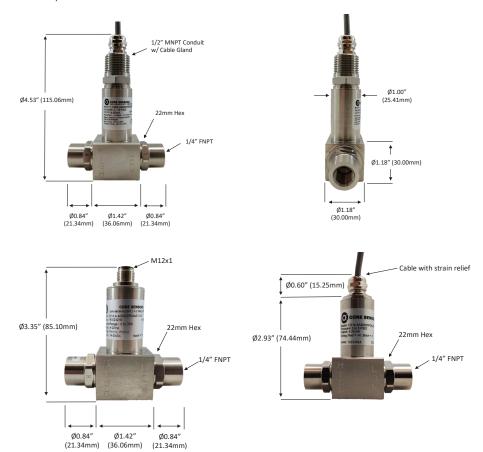
Electrical

	4-20mA	1-5V	0.5-4.5V ratiometric	0.5-2.5V non-ratiometric
Excitation	10-28VDC	10-28VDC	5VDC +/- 0.5V, regulated	3-5VDC unregulated
Current Consumption	20mA, typical	<10mA	<10mA	≤3mA
Output Load	0-800 Ohms @ 10-28VDC	5K Ohms, min	5K Ohms, min	5K Ohms, min
Frequency Response (min)	~250Hz	~1kHz	~1kHz	~1kHz
Zero Offset (of FS)	\leq ± 0.5% typical ± 1% max	≤ ± 0.5% typical ± 1% max	\leq ± 0.5% typical ± 1% max	≤±0.5% typical ±1% max
Span Tolerance (of FS)	≤ ± 0.5% typical ± 1% max	≤ ± 0.5% typical ± 1% max	\leq ± 0.5% typical ± 1% max	≤±0.5% typical ±1% max

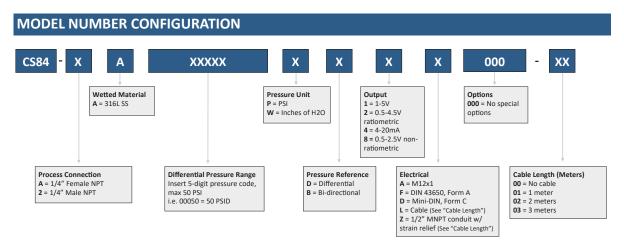
For wiring information, visit $\underline{\text{core-sensors.com/wiring}}$

DIMENSIONS

*Dimensions are for reference only





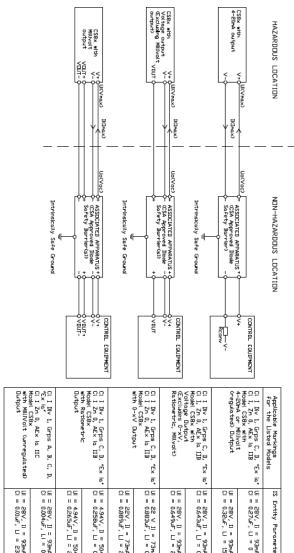


Ordering Example: CS84-AA00010PD4A000-00 (1/4" Female NPT, 316LSS, 0-10 PSI differential, 4-20mA, M12x1)
Not all configurations are available. Our sales team can recommend the closest available configuration based on your requirements.
Contact Core Sensors for configurations not shown.

Visit our How To Buy page or contact us for a quote.



ENTITY PARAMETERS



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for the Listed Models	to chiry runameters	NOTES
CI I Div 1, Grps C, D, "Ex ia" CI I, Zn 0, AEx Ia IIB Model CSBx with A-20ma on Millicolt	Ui = 28V, Ii = 93™A, Pi = 650™V, CI = 0≥7uF, LI = 0 uH	with Integral Connector
(regulated) Dutput	UI = 28V, II = 93™A, PI = 650™V, CI = 0.32uF, LI = 155 uH	with Cable, up to 1000
C, D, "Ex la"	UI = 28V, II = 93mA, PI = 650mW, CI = 0.643uF, LI = 0 uH	with Integral Connector
(Excludes 0-xV, Rationetric, Milvolt)	UI = 28V, II = 93™A, PI = 650™V, CI = 0.649uF, LI = 23.30 uH	with Cable, up to 150
CI I DIV 1, Grps C, D, "Ex la" CI I Zn O, AEx la IIB Model CS8x With D-xV Dutout	UI = 22 V II = 73mA, PI = 400mV, CI = 0.883uF, LI = 0 uH	with Integral Connector
	UI = 22V, II = 73mA, PI = 400mW, CI = 0.889uF, LI = 23.25 uH	with Cable, up to 150 ft
CI I DIV 1, Grps C, D, "Ex la" CI I Zn O, AEx la IIB Model CS8x With Rathmetric	UI = 4.94V, II = 504mA, PI = 620mV, CI = 0.258uF, LI = 0 uH	with Integral Connector
Dutput	UI = 4.94V, II = 504mA, PI = 620mV, CI = 0.265uF, LI = 23.25 uH	with Cable, up to 150 ft
C! I DIv 1, Grps A, B, C, D, "Ex la" C! I Zn O, AEx la IIC Model CSBx	UI = 28V, II = 93™A, PI = 650™V, CI = 0.004uF, LI = 0 uH	with Integral Connector
with MillVolt (unregulated) Dutput	UI = 28V, II = 93mA, PI = 650mV, CI = 0.01uF, LI = 23.25 uH	with Cable, up to 150 ft

- installations must be in accordance with National Electrical Code (ANSI/NFPA stallation of Inthinsically Safe Systems for Hazardous (Classified) Locations'. Associated Apparatus must meet all the following requirements: oc) \leq UKYmax), Isc(Io) \leq IKImax), Po \leq Pi, Ca(Co) \geq Ci + Ccable, La(Lo) \geq Li + Lcable ial Condition of Safe Use: Potential voltage supplied to the Associated Apparatus must not be be approved by CSA prior to release. be a CSA certified barrier and must be installed according mistances, exposed plastic and whearthed metal parts of the in a lectrostatic charge. Therefore, the user/installer shall charge, i.e. locate the equipment where a charge-generating 70, Article 504 and 505) and ANSI/ISA RP12.6 ". Canadian Installations must be in accordance đ more than 250 Vac or 250 Vdc. enclosure of models CS8x may implement provisions to prevent mechanism is unlikely to be the barrier's installation
- made from light metal, in rare cases, ignition sources due to impact and friction sparks n sources due to impact and friction sparks could occur. This shall be considered during e not to cause impacts or scrapes with other metal objects during installation. of CEC (for Canada) and NEC (for USA)

pressure range is 0.8 to 1.1 bar (80 to 110 kPa)