

Certificate of Compliance

Certificate: 70184381 Master Contract: 272694

Project: 80129895 **Date Issued:** 2023-05-05

Issued To: Core Sensors LLC

628 Route 10 Unit 8

Whippany, New Jersey, 07981

United States

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Oong Lee

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

CLASS - C225882 - PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US

Standards

Class I, Division 2, Groups A, B, C, D, T4

The **CS5x** series models: CS5**c-d-e**-xxxxx-x-**a-b**-xxx-xx; pressure sensor for fluid pressure measurement; where code '**a**' is the electrical output, code '**b**' is the permitted electrical connection, code '**c**' is the sensor element type, code '**d**' is the process connection type, code '**e**' is the wetted material type and "x" is any alphanumeric digit. The available electrical output is either a 2-wire current loop, 3-wire voltage signal, or 4-wire millivolt signal. The maximum working pressure is 207 MPa (30,000 PSI), Single Seal (CS50 model only). Refer to drawing 00553 for applicable pressure range. Install the sensor as per drawing # 00551.



The electrical and temperature ratings for model; CS5c-d-e-xxxxx-x-x-a-b-xxx-xx:

| Order code | Electrical Output Type | Ratings | Temperature |
|------------|-------------------------|-----------------|--------------------------------------|
| 'a' | | | |
| 1 | 1-5 VDC | 28VDC, | Ambient: -40°C to 80°C |
| 3 | 1-6 VDC | 800mW max. | Process: -40°C to 125°C |
| 4 | 4-20 mA | | |
| 5 | 0-5 VDC | | For electrical connection option 'F' |
| 7 | 0-10 VDC | | only: |
| F | 1-10 VDC | | Ambient: -20°C to 80°C |
| K | Regulated Millivolt | | Process: -40°C to 105°C |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 2 | 0.5-4.5 VDC RATIOMETRIC | 7VDC, | |
| 8 | 0.5-2.5 VDC NON- | 275mW max. | |
| G | RATIOMETRIC | 2/3iii W Iliax. | |
| 9 | 10mV/V | - | |
| В | 20mV/V | - | |
| D | 20111 V / V | | |

Where code "b" = F, H, P, Y, Z

- 'F' (DIN 43650A),
- 'H' (Turck® Mini-Fast®),
- 'P' (Conduit with cable),
- 'Y' (Turck® Lokfast® M12),
- 'Z' (Conduit with cable gland).

Where code "c" = 0, 1, 4

- "0" (One Piece Structure)
- "1" (Two Piece Structure)
- "4" (Two Piece Differential Structure)

Where code "d" = 1, 2, 3, 4, 8, A, B, C, D, E, G, H

- "1" (1/2" MNPT)
- "2" (1/4" MNPT)
- "3" (1/8" MNPT)
- "4" (7/16-20 UNF male)
- "8" (F250C Female Autoclave (≥ 10,000 PSI)
- "A" (1/4" FNPT)



"B" (7/16-20 UNF Female w/ depressor pin)

"C" (G1/4 male)

"D" (1/4" BSPP male)

"E" (G1/2 male)

"G" (3/8-24 UNF male)

"H" (9/16-18 UNF male)

Where code "e" = A, B, C, D

"A" = 316L SS

"B" = 17-4PH SS

"C" = HASTELLOY C276

"D" = INCONEL 718

Conditions of Acceptability:

- 1. Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure may store an ignition capable of an electrostatic charge. Therefore, the user/installer shall implement provisions to prevent the buildup of electrostatic charge, i.e. locate the equipment where a charge-generating mechanism is unlikely to be present, and clean with a damp cloth.
- 2. Because the enclosure is made from light metal, in rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation and operation. Use care not to cause impacts or scrapes with other metal objects during installation.
- 3. The end user shall ensure appropriate earthing of the metallic accessories upon installation.
- 4. The final installation of the device in Hazardous area shall meet the requirements of CEC (for Canada) and NEC (for USA) for wiring method that is subject to acceptance of local authority having jurisdiction.
- 5. Do not connect or disconnect the equipment when energized in an explosive atmosphere.
- 6. The CS5x series sensors shall be supplied by Class 2 or limited energy source only in accordance with CSA 61010-1-12.
- 7. The equipment is for use under atmospheric conditions only, the permissible pressure range is 0.8 to 1.1 bar (80 to 110 kPa) and the permissible normal oxygen content is typically 21 % v/v.

CLASS - C225804 - PROCESS CONTROL EQUIPMENT Intrinsically Safe, Entity - For Hazardous Locations

CLASS - C225884 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified to US Standards

Ex ia IIB T4 Ga Class I, Zone 0, AEx ia IIB T4 Ga Class I, Division 1, Groups C, D, T4; Ex ia

The **CS8x** series models: CS8**c-d-e**-xxxxx-x-**a**-x-xxxx-xx: pressure sensor for fluid pressure measurement; where code "**a**" is the electrical output, code '**c**' is the sensor element type, code '**d**' is the process connection type, code



'e' is the wetted material type and "x" is any alphanumeric digit. The permitted electrical output is either 2-wire current loop, 3-wire voltage signal or 4-wire millivolt signal. The maximum working pressure is 207 MPa (30,000 PSI), Single Seal (CS80 model only). Refer to drawing 00553 for applicable pressure range. Install the sensor as per drawing # 00091.

IS Entity parameters defined in control drawing # 00091 are as below:

| CS8x output type | Electrical Output Code "a" | IS Entity Parameters with integral connector | IS Entity Parameters with cable | Temperatures |
|--|-------------------------------------|---|--|--|
| 4-20mA | 4 | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.25uF, Li = 0uH | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.292uF, Li = 155uH (max. cable length 1000 ft.) | |
| 1-5V, 1-6V, 1-10V voltage 0.5-4.5V non- ratiometric | 1, 3, F, H | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.591uF, Li = 0uH | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.598uF, Li = 23.25uH (max. cable length 150 ft.) | Ambient temperature: -40°C+80°C Ambient temperature: |
| 0-5V, 0-10V voltage | 5, 7 | Ui = 22V, Ii = 73mA, Pi = 400mW, Ci = 0.811uF, Li = 0uH | Ui = 22V, Ii = 73mA, Pi = 400mW, Ci = 0.818uF, Li = 23.25uH (max. cable length 150 ft.) | -20°C+80°C (sensor with DIN 43650A connector) Process Temperature: -40°C+125°C |
| 0.5-4.5V ratiometric, 0.5-2.5V non- ratiometric | 2, 8 | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0. 239uF, Li = 0uH | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.245uF, Li = 23.25uH (max. cable length 150 ft.) | Process Temperature: -40°C+105°C (sensor with DIN 43650A connector) |
| Millivolt (Regulated) without RTD | K | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.357uF, Li = 0uH | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.364uF, Li = 23.25uH (max. cable length 150 ft.) | |



| Millivolt (Regulated) with RTD | K | mV output: Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.357uF, Li = 0uH | mV output: Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.364uF, Li = 23.25uH | |
|--------------------------------------|---|---|--|--|
| | | RTD: Ui = 16.1V, Ii = 33mA, Pi = 131mW, Ci = 48pF, Li = 0uH | RTD: Ui = 16.1V, Ii = 33mA, Pi = 131mW, Ci = 0.007uF, Li = 0uH (max. cable length 150 ft.) | |

Ex ia IIC T4 Ga Class I, Zone 0, AEx ia IIC T4 Ga Class I, Division 1, Groups A, B, C, D, T4; Ex ia

The **CS8x** series model: CS8**c-d-e**-xxxxx-x-**a**-x-xxx-xx: pressure sensor for fluid pressure measurement; where code "**a**" is the electrical output, code '**c**' is the sensor element type, code '**d**' is the process connection type, code '**e**' is the wetted material type and "x" is any alphanumeric digit. The permitted electrical output is 4-wire millivolt signal. The maximum working pressure is 207 MPa (30,000 PSI), Single Seal (CS80 model only). Refer to drawing 00553 for applicable pressure range. Install the sensor as per drawing # 00091.

IS Entity parameters defined in control drawing # 00091 are as below:

| CS8x output type | Electrical Output Code "a" | IS Entity Parameters with integral connector | IS Entity Parameters with cable | Temperatures | |
|--|-------------------------------------|--|---|--|--|
| 4-20mA | 4 | Ui = 17V, Ii = 93mA, Pi = 650mW, Ci = 0.25uF, Li = 0uH | Ui = 17V, Ii = 93mA, Pi = 650mW, Ci = 0.292uF, Li = 155uH (max. cable length 1000 ft.) | Ambient temperature: -40°C+80°C Ambient temperature: -20°C+80°C (sensor with DIN 43650A connector) | |
| 1-5V, 1-6V, 1-10V voltage 0.5-4.5V non- ratiometric | 1, 3, F, H | Ui = 14.8V, Ii = 93mA, Pi = 650mW, Ci = 0.591uF, Li = 0uH | Ui = 14.8V, Ii = 93mA, Pi = 650mW, Ci = 0.598uF, Li = 23.25uH (max. cable length 150 ft.) | Process Temperature: -40°C+125°C Process Temperature: | |



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| 0-5V, 0-10V voltage | 5, 7 | Ui = 13.5V, Ii = 73mA, Pi = 400mW, Ci = 0.811uF, Li = 0uH | Ui = 13.5V, Ii = 73mA, Pi = 400mW, Ci = 0.818uF, Li = 23.25uH (max. cable length 150 ft.) | -40°C+105°C (sensor with DIN 43650A connector) | |
|--|------|---|--|--|--|
| 0.5-4.5V ratiometric, 0.5-2.5V non- ratiometric | 2, 8 | Ui = 17V, Ii = 93mA, Pi = 650mW, Ci = 0. 239uF, Li = 0uH | Ui = 17V, Ii = 93mA, Pi = 650mW, Ci = 0.245uF, Li = 23.25uH (max. cable length 150 ft.) | | |
| Millivolt (Regulated) | K | Ui = 17V, Ii = 93mA, Pi = 650mW, Ci = 0.357uF, Li = 0uH | Ui = 17V, Ii = 93mA, Pi = 650mW, Ci = 0.364uF, Li = 23.25uH (max. cable length 150 ft.) | | |
| Millivolt (Regulated) With RTD | K | mV output: Ui = 17V, Ii = 93mA, Pi = 650mW, Ci = 0.357uF, Li = 0uH | mV output: Ui = 17V, Ii = 93mA, Pi = 650mW, Ci = 0.364uF, Li = 23.25uH | | |
| | | RTD: Ui = 16.1V, Ii = 33mA, Pi = 131mW, Ci = 48pF, Li = 0uH | RTD: Ui = 16.1V, Ii = 33mA, Pi = 131mW, Ci = 0.007uF, Li = 0uH (max. cable length 150 ft.) | | |
| Millivolt (Unregulated) | 9, B | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 48pF, Li = 0uH | = 650mW, Ci = 0.007uF, Li = 23.25uH (max. cable length 150 ft.) -40°C+85°C Ambient temperature: -20°C+80°C (sensor with DIN 43650A | | |
| Millivolt (Unregulated) without RTD | R | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 48pF, Li = 0uH | Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.007uF, Li = 23.25uH (max. cable length 150 ft.) | omector) Process Temperature: -40°C+125°C | |



| Millivolt (Unregulated) with RTD | R | mV input: Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 48pF, Li = 0uH | mV input: Ui = 28V, Ii = 93mA, Pi = 650mW, Ci = 0.007uF, Li = 23.25uH | -40°C+105°C (sensor with DIN 43650A connector) |
|--|---|---|---|--|
| | | RTD: Ui = 16.1V, Ii = 33mA, Pi = 131mW, Ci = 48pF, Li = 0uH | RTD: Ui = 16.1V, Ii = 33mA, Pi = 131mW, Ci = 0.007uF, Li = 0uH (max. cable length 150 ft.) | |

CS8c-d-e-xxxxx-x-x-a-x-xxx-xx

Where code "c" = 0, 1, 2, 4

"0" (One Piece Structure)

"1" (Two Piece Structure)

"2" (Two Piece Structure Submersible)

"4" (Two Piece Differential Structure)

Where code "d" = 1, 2, 3, 4, 6, 8, A, B, C, D, E, G, H

"1" (1/2" MNPT)

"2" (1/4" MNPT)

"3" (1/8" MNPT)

"4" (7/16-20 UNF male)

"6" (Nosecone / Nosecap)

"8" (F250C Female Autoclave (≥ 10,000 PSI)

"A" (1/4" FNPT)

"B" (7/16-20 UNF Female w/ depressor pin)

"C" (G1/4 male)

"D" (1/4" BSPP male)

"E" (G1/2 male)

"G" (3/8-24 UNF male)

"H" (9/16-18 UNF male)

Where code "e" = A, B, C, D

"A" = 316L SS

"B" = 17-4PH SS

"C" = HASTELLOY C276

"D" = INCONEL 718

Conditions of Acceptability:

1. Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure may store an ignition capable of an electrostatic charge. Therefore, the user/installer shall implement provisions to



prevent the buildup of electrostatic charge, i.e. locate the equipment where a charge-generating mechanism is unlikely to be present, and clean with a damp cloth.

- 2. Because the enclosure is made from light metal, in rare cases, ignition sources due to impact and friction sparks could occur. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation and operation. Use care not to cause impacts or scrapes with other metal objects during installation.
- 3. The end user shall ensure appropriate earthing of the metallic accessories upon installation.
- 4. The final installation of the device in Hazardous area shall meet the requirements of CEC (for Canada) and NEC (for USA) for wiring method that is subject to acceptance of local authority having jurisdiction.
- 5. The equipment is for use under atmospheric conditions only, the permissible pressure range is 0.8 to 1.1 bar (80 to 110 kPa) and the permissible normal oxygen content is typically 21 % v/v.

CLASS C225206 - PROCESS CONTROL EQUIPMENT (Certified to U.S. Standards)

The **CS1x** series model code: CS10/CS11/CS12/CS14-x-x-xxxxx-x-x-**a-b**-xxx-xx, pressure sensor for fluid pressure measurement; where code '**a**' is the electrical output, code '**b**' is the permitted electrical connection, and "x" is any alphanumeric digit. The available electrical output is either a 2-wire current loop, 3-wire voltage signal, or 4-wire millivolt signal. The maximum working pressure is 207 MPa (30,000 PSI),

| Order code 'a' | Electrical Output Type | Ratings | Temperature |
|----------------|-------------------------------------|------------|--------------------------------------|
| 1 | 1-5 VDC | 8V-28VDC, | Ambient: -40°C to 80°C |
| 3 | 1-6 VDC | 800mW max. | Process: -40°C to 125°C |
| 4 | 4-20 mA | | |
| 5 | 0-5 VDC | | For electrical connection option 'F' |
| 7 | 0-10 VDC | | only: |
| F | 1-10 VDC | | |
| K | Regulated Millivolt (up to max. | | Process: -40°C to 105°C |
| | 200mV) | | |
| 2 | 0.5-4.5 VDC RATIOMETRIC | 7VDC, | |
| 8 | 0.5-2.5 VDC NON-RATIOMETRIC | 275mW max. | |
| 9 | 10mV/V unregulated | | |
| В | 20mV/V unregulated | | |
| A | Millivolt uncompensated (up to max. | | |
| | 100mV/V) | | |
| L | Millivolt unregulated (up to max. | | |
| | 20mV/V) | | |

Order code "b" for various type of electrical connections, is defined in the product nomenclature. Refer to drawing 00374.



Conditions of Acceptability:

- 1. The CS1x series sensors shall be supplied by Class 2 or limited energy source only in accordance with CSA 61010-1-12.
- 2. CS11 sensor shall be installed within an external enclosure. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
- 3. Working pressure range of the sensor element is specified in document 00553.

CLASS C225802 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations CLASS C225882 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations – Certified to U.S. Standards

Ex db IIC T4 Gb Class I Zone 1 AEx db IIC T4 Gb Class I, Division 1, Groups A, B, C and D, T4

Ex tb IIIC T135°C Db Zone 21 AEx tb IIIC T135°C Db Class II, Division 1, Groups E, F and G, T135°C

 $-40^{\circ}\text{C} \le \text{Ta} \le +85^{\circ}\text{C}$ $-40^{\circ}\text{C} \le \text{Tprocess} \le +120^{\circ}\text{C}$

MWP - 207 MPa (30,000 psi), Single Seal (Order Codes CS60 and CS66 only). MWP – 50 psi (Order Codes CS64 and CS68).

The CS6x pressure sensor for fluid pressure measurement:

CS6 T# XXXXX X XXX XXX X X X X X 0 1 2 3 5 9 10

| Code | Description | Option | Detail | Op | Detail |
|------|-------------|--------|---------------------------------------|----|---|
| 0 | Platform | 0 | Standard One Piece | 6 | High Performance One Piece |
| | | 4 | Standard Differential | 8 | High Perf Differential |
| 1 | Meas. | 0 | No Temperature | 2 | -40°C to +125°C |
| | Range | 1 | -40° C to $+85^{\circ}$ C | X | Range of -40°C to +125°C |
| 2 | Process | 1 | ½" MNPT | В | 7/16-20 UNF Female |
| | Connection | 2 | 1/4" MNPT | C | G1/4 Male |
| | | 3 | 1/8" MNPT | D | ¹ / ₄ " BSPP Male |
| | | 4 | 7/16-20 UNF Male | Е | G1/2 Male |
| | | 8 | F250C Female Autoclave (≥ 10,000 psi) | G | 3/8-24 UNF Male |
| | | A | 1/4" FNPT | Н | 9/16-18 UNF Male |



| 2 | 337.44.1 | Ι | 2171 00 | | H11- C276 |
|----|------------|-------|--|---|----------------------------|
| 3 | Wetted | A | 316L SS | C | Hastelloy C276 |
| | Materials | В | 17-4PH SS | D | Inconel 718 |
| 4 | Pressure | XXXXX | 5 digit pressure code (max 30,000 psi) | | |
| | Range | | | | |
| 5 | Pressure | P | psi (lbf/in²) | M | Millibar |
| | Unit | В | Bar | W | Inches of H ₂ O |
| | | K | kg/cm ² | | |
| 6 | Pressure | A | Absolute | S | Sealed Gauge |
| | Reference | C | Vacuum (Sealed Gauge) | D | Differential |
| | | G | Gauge | В | Bi-directional |
| 7 | Electrical | 1 | 1-5V | A | mV Uncompensated |
| | Output | 2 | 0.5-4.5V Ratiometric | В | 20mV/V |
| | | 3 | 1-6V | C | 1-6 kHz |
| | | 4 | 4-20mA | F | 1-10V |
| | | 5 | 0-5V | G | I2C |
| | | 6 | RS-485 (MODBUS) | Н | 0.5-4.5V, Non-Ratiometric |
| | | 7 | 0-10V | J | SPI |
| | | 8 | 0.5-2.5V Non-Ratiometric | K | Regulated Millivolt |
| | | 9 | 10mV/V | R | mV with RTD |
| 8 | Electrical | R | Conduit with Flying Lead | | |
| | Connection | | | | |
| 9 | Options | X | Options considered not relevant to | | |
| | _ | | certification (not endorsed by CSA) | | |
| 10 | Cable | XX | Any value up to 304.8 m | | |
| | Length | | | | |

Conditions of Acceptability:

- 1. The CS6x series sensors shall be supplied by Class 2 or limited energy source only in accordance with CSA 61010-1-12.
- 2. This equipment does not require an explosion proof seal. However, connection to the equipment shall be made via rigid metal conduit only. Refer to NFPA 70 National Electrical Code (NEC) and C22.1 Canadian Electrical Code, Part I Safety Standard for Electrical Installations, as applicable.



APPLICABLE REQUIREMENTS

| CAN/CSA C22.2 No. 61010-1-12 | Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements - Third Edition |
|---|---|
| CSA Std. C22.2 No. 213-2017 | Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations |
| CAN/CSA C22.2 No. 25:17 | Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations |
| CAN/CSA C22.2 No. 30:20 | Explosion-proof equipment |
| CAN/CSA-C22.2 No. 60079-0: 2015 | Explosive Atmospheres - Part 0: Equipment - General requirements |
| CAN/CSA-C22.2 No. 60079-0: 2019 (Model CS6x only) | Explosive Atmospheres - Part 0: Equipment - General requirements |
| CAN/CSA-C22.2 No. 60079-1:16 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| CAN/CSA-C22.2 No. 60079- 31:15 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |
| CAN/CSA-C22.2 No. 60079- 11:14 | Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety "i" |
| ANSI/ISA-61010-1 3rd Edition | Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements - Third Edition |
| ANSI/UL-121201, 9th Edition | Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations |
| UL 1203 (2013) Fifth Edition, Revision April 2022 | ExplosionProof and Dust-IgnitionProof Electrical Equipment for Use in Hazardous (Classified) Locations |
| ANSI/UL 60079-0:2013 6 th Edition | Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements |
| ANSI/UL 60079-0:2019 7 th Edition (Model CS6x only) | Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements |
| ANSI/UL-60079-1:2015 7 th Edition | Explosive Atmospheres – Part 1:Equipment Protection by Flameproof Enclosures "d" |
| ANSI/UL-60079-31:2015 | Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure "t" |
| ANSI/UL 60079-11:2013 6 th Edition | Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i" |
| ANSI/UL 122701-2017 | Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids |



MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following shall be provided on an adhesive nameplate located on the sensor body:

The following markings are laser etched on the sensor body of model CS6x. All other models feature an adhesive nameplate located on the sensor body:

- CSA Monogram with, or without the "C" and "US" indicators
- The year and certificate number "CSA 19CA70184381" (Not required for CS1x models)
- Submittor Identification "Core Sensors", or CSA master contract number "272694", adjacent to the CSA Mark in lieu of manufacturer's name
- Model code designation; As specified in the PRODUCTS section, above
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Ratings, as specified in the PRODUCTS section, above
- Ambient temperature rating, as specified in the PRODUCTS section, above
- Process temperature rating, as specified in the PRODUCTS section, above
- The marking "Seal Not Required" or equivalent (CS6x only).
- The operating pressure range, as specified in the PRODUCTS section, above
- Process Seal type "Single Seal" for one piece sensor only, when specified in the PRODUCTS section, above
- Hazardous Location Designation, as specified in the PRODUCTS section, above-(Not required for CS1x models)
- Installation as per control drawing # 00091, for Zone 0/Div.1 models (Not required for CS1x or CS6x models)
- Installation as per drawing # 00551, for Division 2 models (Not required for CS1x or CS6x models)
- Warning as below both in English and French (Not required for CS1x or CS6x models):
 - Ø WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD SEE INSTRUCTIONS
 - ${\it \varnothing}$ AVERTISSEMENT: RISQUE POTENTIEL DE DECHARGES ELECTROSTATIQUES VOIR CONSIGNES
 - $oldsymbol{\varnothing}$ WARNING EXPLOSION HAZARD. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED
 - Ø AVERTISSEMENT RISQUE D'EXPLOSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION
- ISO 3864 Symbol B.3.1 ⚠ or ISO 7000 symbol 0434 ⚠ (triangle with exclamation point)



Nameplate adhesive label material information:

The nameplate marking shall be printed on the following adhesive label material properties:

Printed Label Properties

- Material Polyester
- Finish: Printed Label Silver Matte Chrome Type: Thermal Transfer
- Thickness: 0.002' [0.0508]
- Service Temperature -40°C to 149°C
- Adhesive: Industrial grade clear acrylic

Notes:

Products certified under Class C225804, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

