

Sensemaster Ltd. Unit 1 Severn Bridge Ind Est. Caldicot, Monmouthshire. NP26 5PW

Sensing, Heating & Anti-static Solutions

### CAST-X 500 WITH NEMA 1 and NEMA 4 ENCLOSURE (same enclosure for NEMA 1 or 4)

NEMA 4 simply has a sealant applied on the inside rim of the lid, as an extra protective measure.



- UL 508A Listed; Type 4, 6, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 6, 12, 13; File No. E61997
- NEMA Type 4, 6, 12, 13
- CSA, File No. 42186: Type 4, 12, 13
- IEC 60529, IP67

### CAST-X 500 WITH EXPLOSION PROOF ENCLOSURE (NB only the enclosure is rated the cast body is not)



- UL Standard: 1203
- ANSI Standard: C33.27
- CSA Standard: C22.2 No. 30
- NEMA/EEMAC 3, 4
- NEC / CEC Certs:
- Cl. I, Div. 1 & 2, Groups B\*, C, D (Explosion-proof)
- Cl. II, Div. 1, Groups E, F, G (Dust-Ignition proof)
- Cl. II, Div. 2, Groups F, G (Rain-tight)
- Cl. III (Wet Locations)

Tel 01291 422022 Email: mail@sensemaster.co.uk Web: www.sensemaster.co.uk



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### CAST-X 1000 WITH GENERAL PURPOSE ENCLOSURE



- This enclosure is not certified to any particular zone or group.
- It is not "NEMA Certified".
- It can be referred to as a "Dust Cap" or "General Purpose Enclosure"
- This is true whether the enclosure has the Thermostat or not.

### CAST-X 1000 WITH WATER RESISTANT ENCLOSURE - WITHOUT T-STAT

### If this enclosure has an external T-Stat it will be 4 X 4 inches, Depicted below



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66



• If it has a T-Stat inside, it will be 6 x 6 inches, as depicted here

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### CAST-X 1000 WITH WATER RESISTANT ENCLOSURE – WITH T-STAT



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66

### CAST-X 2000 WITH GENERAL PURPOSE ENCLOSURE – NO TSTAT - STANDARD MOUNT



- This enclosure is not certified to any particular zone or group.
- It is not "NEMA Certified".
- It is referred to as a "Dust Cap" or "General Purpose Enclosure"
- This is true whether the enclosure has a Thermostat or not.

### CAST-X 2000 WITH GENERAL PURPOSE ENCLOSURE – WITH TSTAT – STANDARD MOUNT



- This enclosure is not certified to any particular zone or group.
- It is not "NEMA Certified".
- It is referred to as a "Dust Cap" or "General Purpose Enclosure"
- This is true whether the enclosure has a Thermostat or not.

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### CAST-X 2000 WITH GENERAL PURPOSE ENCLOSURE – NO TSTAT - STANDOFF MOUNT



- This enclosure is not certified to any particular zone or group.
- It is not "NEMA Certified".
- It is referred to as a "Dust Cap" or "General Purpose Enclosure"
- Standoff with T-stat not available.

### CAST-X 2000 WITH WATER RESISTANT ENCLOSURE – NO T-STAT



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66
- External stat required, housing 4 x 4 inches

### CAST-X 2000 WITH WATER RESISTANT ENCLOSURE - with T-STAT



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66
- Internal T-stat, housing 6 x 6 inches

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### CAST-X 2000 WITH WATER RESISTANT ENCLOSURE – NO T-STAT and STANDOFF MOUNT



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66
- Standoff not available with T-stat

## CAST-X 2000 WITH EXPLOSION PROOF ENCLOSURE – NO T-STAT, STANDARD MOUNT (NB only the enclosure is rated the cast body is not)



- Hazardous Location Terminal Enclosure
- CSA, US and Canada Mark
- Class 1, Divs. 1 & 2, Groups A, B, C, D
- · Class 2, Divs. 1 & 2, Groups E, F, G
- Class 3, Divs. 1 & 2

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

(See notes on Atex rating at end of list)

## CAST-X 2000 WITH EXPLOSION PROOF ENCLOSURE – WITH T-STAT, STANDARD MOUNT (NB only the enclosure is rated the cast body is not)



- Hazardous Location Terminal Enclosure
- CSA, US and Canada Mark
- Class 1, Divs. 1 & 2, Groups A, B, C, D
- · Class 2, Divs. 1 & 2, Groups E, F, G
- Class 3, Divs. 1 & 2

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

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## CAST-X 2000 WITH EXPLOSION PROOF ENCLOSURE – NO T-STAT, STANDOFF MOUNT (NB only the enclosure is rated the cast body is not)



- Hazardous Location Terminal Enclosure
- CSA, US and Canada Mark
- Class 1, Divs. 1 & 2, Groups A, B, C, D
- Class 2, Divs. 1 & 2, Groups E, F, G
- Class 3, Divs. 1 & 2

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

(See notes on Atex rating at end of list)

## CAST-X 2000 WITH EXPLOSION PROOF ATEX CERTIFIED ENCLOSURE (NB only the enclosure is rated the cast body is not)



This option is not listed as a standard product & is custom made.

Please contact Sensemaster for quoting.

Please note this custom option is not available with a T-stat.

- ATEX Certified Explosion Proof
- UL Classified 9L44
- CSA Code LR 86146
- FM Cert: FM09ATEX0073U
- Class 1, Div. 1 & 2, Groups B, C, D
- Class 1, Zone 1 & 2, IIB + H2
- Class 2, Div. 1 & 2, Groups E, F, G, Class 3, Div. 1 & 2
- Enclosure Type 4X (Type 7, & 9 for UL)
- IEC Certified: Ex db IIC Gb, EX tb IIIC Db

### CAST-X 2500 WITH GENERAL PURPOSE ENCLOSURE - NO T-STAT DUAL TUBE



- This enclosure is not certified to any particular zone or group.
- It is not "NEMA Certified".
- It is referred to as a "Dust Cap" or "General Purpose Enclosure"
- This is true whether the enclosure has a Thermostat or not.

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### CAST-X 2500 WITH GENERAL PURPOSE ENCLOSURE – NO T-STAT...... SINGLE TUBE



- This enclosure is not certified to any particular zone or group.
- It is not "NEMA Certified".
- It is referred to as a "Dust Cap" or "General Purpose Enclosure"
- This is true whether the enclosure has a Thermostat or not.

### CAST-X 2500 WITH WATER RESISTANT ENCLOSURE – WITH OR WITHOUT T-STAT -**DUAL TUBE**



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

(See notes on Atex rating at end of list)

https://sensemaster.co.uk/wp-content/uploads/2024/08/Explosion-Proof-Atex-Rating.pdf

### CAST-X 2500 WITH WATER RESISTANT ENCLOSURE – WITH OR WITHOUT T-STAT -SINGLE TUBE



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

(See notes on Atex rating at end of list)

https://sensemaster.co.uk/wp-content/uploads/2024/08/Explosion-Proof-Atex-Rating.pdf

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## CAST-X 2500 WITH EXPLOSION PROOF ENCLOSURE – NO T-STAT – DUAL TUBE (NB only the enclosure is rated the cast body is not)



- Hazardous Location Terminal Enclosure
- CSA, US and Canada Mark
- Class 1, Divs. 1 & 2, Groups A, B, C, D
- · Class 2, Divs. 1 & 2, Groups E, F, G
- Class 3, Divs. 1 & 2

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

(See notes on Atex rating at end of list)

https://sensemaster.co.uk/wp-content/uploads/2024/08/Explosion-Proof-Atex-Rating.pdf

## CAST-X 2500 WITH EXPLOSION PROOF ENCLOSURE – NO T-STAT – SINGLE TUBE (NB only the enclosure is rated the cast body is not)



- Hazardous Location Terminal Enclosure
- CSA, US and Canada Mark
- Class 1, Divs. 1 & 2, Groups A, B, C, D
- Class 2, Divs. 1 & 2, Groups E, F, G
- Class 3, Divs. 1 & 2

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

(See notes on Atex rating at end of list)

https://sensemaster.co.uk/wp-content/uploads/2024/08/Explosion-Proof-Atex-Rating.pdf

### CAST-X 2500 WITH EXPLOSION PROOF ENCLOSURE – WITH T-STAT – DUAL TUBE (NB only the enclosure is rated the cast body is not)



- Hazardous Location Terminal Enclosure
- CSA, US and Canada Mark
- Class 1, Divs. 1 & 2, Groups A, B, C, D
- Class 2, Divs. 1 & 2, Groups E, F, G
- Class 3, Divs. 1 & 2

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

(See notes on Atex rating at end of list)

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### CAST-X 2500 WITH EXPLOSION PROOF ENCLOSURE – WITH T-STAT – SINGLE TUBE (NB only the enclosure is rated the cast body is not)



- Hazardous Location Terminal Enclosure
- CSA, US and Canada Mark
- Class 1, Divs. 1 & 2, Groups A, B, C, D
- Class 2, Divs. 1 & 2, Groups E, F, G
- Class 3, Divs. 1 & 2

Enclosure is certified by CSA (Canadian Standards Association) which is very similar to NEMA, but not exact same agency & is not Atex rated.

(See notes on Atex rating at end of list)

https://sensemaster.co.uk/wp-content/uploads/2024/08/Explosion-Proof-Atex-Rating.pdf

## CAST-X 2500 WITH EXPLOSION PROOF ATEX CERTIFIED ENCLOSURE – WITH OR WITHOUT T-STAT – DUAL TUBE

(NB only the enclosure is rated the cast body is not)



- ATEX Certified Explosion Proof
- UL Classified 9L44
- CSA Code LR 86146
- FM Cert: FM09ATEX0073U
- Class 1, Div. 1 & 2, Groups B, C, D
- Class 1, Zone 1 & 2, IIB + H2
- Class 2, Div. 1 & 2, Groups E, F, G, Class 3, Div. 1 & 2
- Enclosure Type 4X (Type 7, & 9 for UL)
- IEC Certified: Ex db IIC Gb, EX tb IIIC Db

## CAST-X 2500 WITH EXPLOSION PROOF ATEX CERTIFIED ENCLOSURE – WITH OR WITHOUT T-STAT – SINGLE TUBE

(NB only the enclosure is rated the cast body is not)



- ATEX Certified Explosion Proof
- UL Classified 9L44
- CSA Code LR 86146
- FM Cert: FM09ATEX0073U
- Class 1, Div. 1 & 2, Groups B, C, D
- Class 1, Zone 1 & 2, IIB + H2
- Class 2, Div. 1 & 2, Groups E, F, G, Class 3, Div. 1 & 2
- Enclosure Type 4X (Type 7, & 9 for UL)
- IEC Certified: Ex db IIC Gb, EX tb IIIC Db

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### CAST-X 3000 WITH WATER RESISTANT ENCLOSURE – DUAL TUBE



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66

### CAST-X 3000 WITH WATER RESISTANT ENCLOSURE - SINGLE TUBE



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66

## CAST-X 3000 WITH EXPLOSION PROOF ATEX CERTIFIED ENCLOSURE DUAL TUBE (NB only the enclosure is rated the cast body is not)



- ATEX Certified Explosion Proof
- UL Classified 9L44
- CSA Code LR 86146
- FM Cert: FM09ATEX0073U
- Class 1, Div. 1 & 2, Groups B, C, D
- Class 1, Zone 1 & 2, IIB + H2
- Class 2, Div. 1 & 2, Groups E, F, G, Class 3, Div. 1 & 2
- Enclosure Type 4X (Type 7, & 9 for UL)
- IEC Certified: Ex db IIC Gb, EX tb IIIC Db

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### CAST-X 3000 WITH EXPLOSION PROOF ATEX CERTIFIED ENCLOSURE SINGLE TUBE (NB only the enclosure is rated the cast body is not)



- ATEX Certified Explosion Proof
- UL Classified 9L44
- CSA Code LR 86146
- FM Cert: FM09ATEX0073U
- Class 1, Div. 1 & 2, Groups B, C, D
- Class 1, Zone 1 & 2, IIB + H2
- Class 2, Div. 1 & 2, Groups E, F, G, Class 3, Div. 1 & 2
- Enclosure Type 4X (Type 7, & 9 for UL)
- IEC Certified: Ex db IIC Gb, EX tb IIIC Db

### CAST-X 4000 WITH WATER RESISTANT ENCLOSURE – DUAL TUBE



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
- IEC 60529, IP66

### CAST-X 4000 WITH WATER RESISTANT ENCLOSURE – SINGLE TUBE



- UL 50, 50E Listed; Type 4, 12, 13; File No. E27525
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E27525
- UL 508A Listed; Type 4, 12, 13; File No. E61997
- cUL Listed per CSA C22.2 No. 94; Type 4, 12, 13; File No. E61997
- NEMA/EEMAC Type 4, 12, 13
- CSA, File No. 42184: Type 4, 12
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## CAST-X 4000 WITH EXPLOSION PROOF ATEX CERTIFIED ENCLOSURE DUAL TUBE (NB only the enclosure is rated the cast body is not)



- ATEX Certified Explosion Proof
- UL Classified 9L44
- CSA Code LR 86146
- FM Cert: FM09ATEX0073U
- Class 1, Div. 1 & 2, Groups B, C, D
- Class 1, Zone 1 & 2, IIB + H2
- Class 2, Div. 1 & 2, Groups E, F, G, Class 3, Div. 1 & 2
- Enclosure Type 4X (Type 7, & 9 for UL)
- IEC Certified: Ex db IIC Gb, EX tb IIIC Db

## CAST-X 4000 WITH EXPLOSION PROOF ATEX CERTIFIED ENCLOSURE SINGLE TUBE (NB only the enclosure is rated the cast body is not)



- ATEX Certified Explosion Proof
- UL Classified 9L44
- CSA Code LR 86146
- FM Cert: FM09ATEX0073U
- Class 1, Div. 1 & 2, Groups B, C, D
- Class 1, Zone 1 & 2, IIB + H2
- Class 2, Div. 1 & 2, Groups E, F, G, Class 3, Div. 1 & 2
- Enclosure Type 4X (Type 7, & 9 for UL)
- IEC Certified: Ex db IIC Gb, EX tb IIIC Db

Cast Aluminum Solutions supplies various Terminal housings with their circulation heaters but for explosive atmospheres there are two specific types

### **CONTINUED**

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### There is an Explosion proof type:



This housing has 4 entry point holes for cable glands to be fitted.

Glands are not supplied with the heaters as there are a variety of voltage & wattage options that will require different gauge wire.

Each entry hole is 1 inch NPT threaded.

The enclosure is certified as a Hazardous Location Terminal Enclosure.

CSA, US & Canadian marked.

Class 1, Divs. 1 & 2, Groups A, B, C, D. Class 2, Divs. 1 & 2, Groups E, F, G

Class 3, Divs. 1 & 2

The certifying body is "CSA" (Canadian Standards Association) (not ATEX and not NEMA 7) Very similar certifying standards, but the certifying body is CSA.

### There is an Atex rated type:



This housing has 2 entry point holes for cable glands to be fitted.

Glands are not supplied with the heaters as there are a variety of voltage & wattage options that will require different gauge wire.

Each entry hole is M20 x 1.5 threaded.

The enclosure is Atex certified Explosion proof.

UL Classified 9L44. CSA Code LR 86146. FM Cert: FM09ATEX0073U

Class 1, Div. 1 & 2, Groups B, C, D. Class 1, Zone 1 & 2, IIB + H2

Class 2, Div. 1 & 2, Groups E, F, G, Class 3, Div. 1 & 2. Enclosure Type 4X (Type 7, & 9 for UL)

IEC Certified: Ex db IIC Gb, EX tb IIIC Db

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