



CSA INTERNATIONAL

# Certificate of Compliance

**Certificate:** 1102298 (LR 105990-3)

**Master Contract:** 185745

**Project:** 1102298

**Date Issued:** July 6, 2000

**Issued to:** MOTION SENSORS INC.  
786 Pitts Chappel Rd.  
Elizabeth City  
NC 27909  
U.S.A.  
Attention: Mr. John Defeo

*The products listed below are eligible to bear the CSA Mark shown, with adjacent indicator "C" and "US".*



**Issued by:** E. Foo, CET

**Signature:**

## PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Ex ia IIC: Class I, Zone 0;  
Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III:

- Model DMX-xxx-1, DMX-xxx-2, DRX-xxx-1 and DRX-xxx-2 Pick-up Coils with integral Pre-Amplifier. Intrinsically Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model PMX-xxxx-1, PMX-xxxx-2, PRX-xxxx-1 and PRX-xxxx-2 Pre-Amplifiers. Intrinsically Safe with Intrinsically Safe Outputs to Certified Pick-up Coils, having Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model MRX-xxx-1, MRX-xxx-2, MRDX-xxx-1, and MRDX-xxx-2 Pickup Coils with integral Pre-Amplifier. Intrinsically Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

The "C" and "US" indicator adjacent to the CSA Mark signifies that the product has been evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canada. This includes products eligible to bear the NRTL indicator. NRTL, i.e. Nationally Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



CSA INTERNATIONAL

**Certificate:** 1102298

**Master Contract:** 185745

**Project:** 1102298

**Date:** July 6, 2000

- Model HX-xxx-1, HX-xxx-2, HDX-xxx-1, HDX-xxx-2, HNX-xxx-1, and HNX-xxx-2 Pickup Coils with integral Pre-Amplifier. Intrinsicly Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

Notes:

1. "xxx" and "xxxx" in the Model Number may be any combination of numbers and characters representing specific options.
2. Pick-up Coils equipped with a connector are only suitable for Class I Groups A, B, C, D (Group IIC), Class II Group G and Coal Dust and Class III.
3. Model PMX-xxxx-1, PMX-xxxx-2, PRX-xxxx-1 and PRX-xxxx-2 Pre-Amplifiers are suitable for Class I Groups A, B, C, D (Group IIC) only and must be installed in a suitable enclosure acceptable to the local inspection authority having jurisdiction.

Ex ia IIA: Class I, Zone 0:

Class I, Group D; Class II, Groups E, F and G; Class III:

- Model DMX-xxx-3, DMX-xxx-4, DMX-xxx-5, DRX-xxx-3, DRX-xxx-4 and DRX-xxx-5 Pick-up Coils with integral Pre-Amplifier. Intrinsicly Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model PMX-xxxx-3, PMX-xxxx-4, PMX-xxxx-5, PRX-xxxx-3, PRX-xxxx-4 and PMX-xxxx-5 Pre-Amplifiers. Intrinsicly Safe with Intrinsicly Safe Outputs to Certified Pick-up Coils, having Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model MRX-xxx-3, MRX-xxx-4, MRDX-xxx-3, and MRDX-xxx-4 Pick-up Coils with integral Pre-Amplifier. Intrinsicly Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model HX-xxx-3, HX-xxx-4, HDX-xxx-3, HDX-xxx-4, HNX-xxx-3, and HNX-xxx-4 Pick-up Coils with integral Pre-Amplifier. Intrinsicly Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

Notes:

1. "xxx" and "xxxx" in the Model Number may be any combination of numbers and characters representing specific options.
2. Pick-up Coils equipped with a connector are only suitable for Class I Group D (Group IIA), Class II Group G and Coal Dust and Class III.
3. Model PMX-xxxx-3, PMX-xxxx-4, PMX-xxxx-5, PRX-xxxx-3, PRX-xxxx-4 and PRX-xxxx-5 Pre-Amplifiers are suitable for Class I Group D (Group IIA) only and must be installed in a suitable enclosure acceptable to the local inspection authority having jurisdiction.



CSA INTERNATIONAL

**Certificate:** 1102298

**Master Contract:** 185745

**Project:** 1102298

**Date:** July 6, 2000

**PRODUCTS**

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified to U.S. Standards

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III:

- Model DMX-xxx-1, DMX-xxx-2, DRX-xxx-1 and DRX-xxx-2 Pick-up Coils with integral Pre-Amplifier. Intrinsically Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model PMX-xxxx-1, PMX-xxxx-2, PRX-xxxx-1 and PRX-xxxx-2 Pre-Amplifiers. Intrinsically Safe with Intrinsically Safe Outputs to Certified Pick-up Coils, having Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model MRX-xxx-1, MRX-xxx-2, MRDX-xxx-1, and MRDX-xxx-2 Pickup Coils with integral Pre-Amplifier. Intrinsically Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model HX-xxx-1, HX-xxx-2, HDX-xxx-1, HDX-xxx-2, HNX-xxx-1, and HNX-xxx-2 Pickup Coils with integral Pre-Amplifier. Intrinsically Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

**Notes:**

1. "xxx" and "xxxx" in the Model Number may be any combination of numbers and characters representing specific options.
2. Pick-up Coils equipped with a connector are only suitable for Class I Groups A, B, C, D, Class II Group G and Coal Dust and Class III.
3. Model PMX-xxxx-1, PMX-xxxx-2, PRX-xxxx-1 and PRX-xxxx-2 Pre-Amplifiers are suitable for Class I Groups A, B, C, D only and must be installed in a suitable enclosure acceptable to the local inspection authority having jurisdiction.

Class I, Group D; Class II, Groups E, F and G; Class III:

- Model DMX-xxx-3, DMX-xxx-4, DMX-xxx-5, DRX-xxx-3, DRX-xxx-4 and DRX-xxx-5 Pick-up Coils with integral Pre-Amplifier. Intrinsically Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model PMX-xxxx-3, PMX-xxxx-4, PMX-xxxx-5, PRX-xxxx-3, PRX-xxxx-4 and PMX-xxxx-5 Pre-Amplifiers. Intrinsically Safe with Intrinsically Safe Outputs to Certified Pick-up Coils, having Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

- Model MRX-xxx-3, MRX-xxx-4, MRDX-xxx-3, and MRDX-xxx-4 Pick-up Coils with integral Pre-Amplifier. Intrinsically Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.



CSA INTERNATIONAL

**Certificate:** 1102298

**Master Contract:** 185745

**Project:** 1102298

**Date:** July 6, 2000

- Model HX-xxx-3, HX-xxx-4, HDX-xxx-3, HDX-xxx-4, HNX-xxx-3, and HNX-xxx-4 Pick-up Coils with integral Pre-Amplifier. Intrinsically Safe with Entity Parameters per Control Drawing No. ST-A-1298. Temperature Code T4.

Notes:

1. "xxx" and "xxxx" in the Model Number may be any combination of numbers and characters representing specific options.
2. Pick-up Coils equipped with a connector are only suitable for Class I Group D, Class II Group G and Coal Dust and Class III.
3. Model PMX-xxxx-3, PMX-xxxx-4, PMX-xxxx-5, PRX-xxxx-3, PRX-xxxx-4 and PRX-xxxx-5 Pre-Amplifiers are suitable for Class I Group D only and must be installed in a suitable enclosure acceptable to the local inspection authority having jurisdiction.

MARKINGS

Refer to dwg ST-A-1282.

APPLICABLE STANDARDS

- |                         |   |   |
|-------------------------|---|---|
| CSA-C22.2 No. 142-M1987 | - | Process Control Equipment   |
| CAN/CSA-E79-11-95       | - | Electrical Apparatus for Explosive Gas Atmospheres--Part 11: Intrinsic Safety "i"                                     |
| UL Std No. 916          | - | Energy Management Equipment   |
| UL Std No. 913          | - | Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations |