



420-0004-334		Sht. 1 of 5	APP'D BY SGA
ISSUE	EDO NO	APP'D	DATE
1	7-06-216	✓	2006/04/21

Certificate of Compliance

Certificate: 1767008 (LR 27375)

Master Contract: 150916

Project: 1767008

Date Issued: 2006/04/21

Issued to: AMETEK Drexelbrook
205 Keith Valley Rd
Horsham, PA 19044
USA

Attention: Steve Arnold

The products listed below are eligible to bear the CSA Mark shown



Issued by: Richard Masek

Authorized by: Peter Schimmoeller, Manager
of Certification Services

A handwritten signature of Peter Schimmoeller.

PRODUCTS

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

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

PRODUCTS

TF 30 SERIES Tuning Fork Sensors - All models have the following temperature ratings for transmitter bodies with a minimum length of 38 mm:

Enclosure Ambient Process Connection Temperature Code



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60 °C max	75 °C max	T5
40 °C max	135 °C max	T4
30 °C max	150 °C max	T3C

The following describes the permitted electronics and enclosures for the various hazardous location ratings. The model numbers shown may be followed by up to fourteen characters that designate non-critical aspects of the product.

Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1 Groups E, F and G; Class III; Encl. Type 4, 4X, IP66

- TFL30, Input Rated 20-250 Vac, 50/60 Hz, 8 VA; or 20-72 Vdc, 1.3 W; Relay Output: 250 Vac, 5A, 750 VA; 250 Vdc, 1A, 54W.
- TFP30, Input Rated 10-55 Vdc, 500 mW; 400 mA; output rated 55 Vdc, 400 mA (max)
- TFT30, Input Rated 11-36 Vdc, 4-20 mA

Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2 Groups E, F and G; Class III; Encl. Type 4, 4X, IP66

- TFL30, Input Rated 20-250 Vac, 50/60 Hz, 8 VA; or 20-72 Vdc, 1.3 W; Relay Output: 250 Vac, 5A, 750 VA; 250 Vdc, 1A, 54W.
- TFP30, Input Rated 10-55 Vdc, 500 mW; 400 mA; output rated 55 Vdc, 400 mA (max)
- TFT30, Input Rated 11-36 Vdc, 4-20 mA

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

PRODUCTS

TF 30 SERIES Tuning Fork Sensors - All models have the following temperature ratings for transmitter bodies with a minimum length of 38 mm:

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60 °C max	75 °C max	T5
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1**Certificate:** 1767008 (LR 27375)**Master Contract:** 150916**Project:** 1767008**Date Issued:** 2006/04/21

The following describes the permitted electronics and enclosures for the various hazardous location ratings. The model numbers shown may be followed by up to fourteen characters that designate non-critical aspects of the product.

Class I, Div 1, Groups A, B, C and D; Class II, Div 1, Groups E, F and G; Class III; Encl. Type 4, 4X, IP66

- TFT30, Input Rated 11-36 Vdc, 4-20 mA, I.S. with entity parameters as shown below when installed per Drawing no. 420-0004-301-CD.

Vmax 31. V, Imax 166 mA and Pi = 0.667 W, Ci = 0 nF, Li = 0 mH

APPLICABLE REQUIREMENTS

CSA C22.2 No 0 M1991 - General Requirements Canadian Electrical Code Part II.

CSA C22.2 No 0.4-M1982 - Bonding and Grounding of Electrical Equipment (Protective Grounding).

CSA C22.2 No 0.5-M1982 - Threaded Conduit Entries

CSA C22.2 No 25-M1966 - Enclosures for Use in Class II Groups E, F and G Hazardous Locations.

CSA C22.2 No 30-M1986 - Explosion-proof Enclosures for Use in Class I Hazardous Locations.

CSA C22.2 No 94-M1991 - Special Purpose Enclosures.

CSA C22.2 No 142-M1987 - Process Control Equipment.

CSA C22.2 No 157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.

CSA C22.2 No 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.

MARKINGS

- Submitter's name, trademark, or the CSA file number MC " 150916 " (adjacent the CSA Mark).
- Catalogue / Model designation.
- Complete electrical rating (amps, hertz, and volts).
- Date code / Serial number traceable to month and year of manufacture.
- Hazardous location designations.
- The Symbol " Exia " (for models TFT30 only)
- Reference to Installation Instructions.
- Temperature code.
- Maximum ambient.
- CSA Enclosure Type 4X.
- The CSA Mark.



CSA INTERNATIONAL

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- The following cautions:
- WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2; (Applicable for models TFL30 and TFP30 only)
- WARNING - EXPLOSION HAZARD - DO NOT REPLACE UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS;
- WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY (Applicable for models TFT30 only)
- WARNING: OPEN CIRCUIT BEFORE REMOVING COVER or KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE or the equivalent);



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Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1767008	2006/04/21	Original certification of TFL30, TFP30 and TFT30 Level switches.