

420-0004-298		Sht. 1 of 2	APP'D BY SGA
ISSUE	EDO NO.	APP'D	DATE
2	7-06-211	SGA	7/12/06
3	7-11-111	OJC	7/20/11



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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

TFL30 Series Vibrating Level Switches.

XP / I / 1 / ABCD / T5 Ta = 60°C; DIP / II,III / 1 / EFG / T5 Ta = 60°C; Type 4, 4X, IP66
NI / I / 2 / ABCD / T5 Ta = 60°C; S / II,III / 2 / EFG / T5 Ta = 60°C

TFP30 Series Vibrating Level Switches.

XP / I / 1 / ABCD / T5 Ta = 60°C; DIP / II,III / 1 / EFG / T5 Ta = 60°C; Type 4, 4X, IP66
NI / I / 2 / ABCD / T5 Ta = 60°C; S / II,III / 2 / EFG / T5 Ta = 60°C

TFT30 Series Vibrating Level Switches.

XP / I / 1 / ABCD / T5 Ta = 60°C; DIP / II,III / 1 / EFG / T5 Ta = 60°C; Type 4, 4X, IP66
NI / I / 2 / ABCD / T5 Ta = 60°C; S / II,III / 2 / EFG / T5 Ta = 60°C; NIFW
IS / I,II,III / ABCDEFG / T4 Ta = 60°C — 420-0004-283-CD; Entity

I / 0 / AEx ia / IIC / T5 Ta = 60°C — 420-0004-283-CD; Entity

Entity Parameters:

VMax = 31 V, IMax = 166 mA, Pi = 0.667 W, Ci = 0, Li = 0.

Nonincendive Field Wiring Parameters:

VMax = 31 V, Ci = 0, Li = 0.

Equipment Ratings:

The TFL30, TFP30 and TFT30 Series Vibrating Level Switches are Explosionproof for Class I, Division 1, Groups A, B, C, and D; dust-ignitionproof for Class II, III Division 1, Groups E, F, and G; non-incendive for Class I, Divisions 2, Groups A, B, C, and D; and suitable for Class II, III, Division 2, Groups E, F, and G Hazardous (Classified) Locations, indoors and outdoors (Type4, 4X, and IP66). The TFT30 Series Vibrating Level Switches also include non-incendive with non-incendive field wiring for Class I, Division 2, Groups A, B, C, and D; intrinsically safe for Class I, II, II, Division 1, Groups A, B, C, D, E, F, and G; and intrinsically safe for Class I, Zone 0, AEx ia IIC Hazardous (Classified) Locations when installed per control Drawing 420-0004-283-CDExplosionproof for Class I, Division 1, Groups B, C, and D; Dust-Ignitionproof for Class II, Division 1 Groups E, F, and G Hazardous (Classified) Locations, Indoor/outdoor Type 4X.

FM Approved for:

AMETEK Drexelbrook
Horsham, PA USA

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FM Approvals®

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	2010
Class 3611	2004
Class 3615	1989
Class 3810	1989
(with Supplement 1)	1995
ANSI/NEMA 250	1991
IEC 60529	1999

Original Project ID: 3022810

Approval Granted: March 16, 2005

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
060505	June 16, 2006		
3042846	July 19, 2011		

FM Approvals LLC



J. E. Marquedant
Group Manager, Electrical

19 July 2011
Date