



FM Approvals  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**KFD2-SL2-Ex-1a. Single-Channel Solenoid Driver**

NI/II/2/ABCD/T4, Ta = 60°C

AIS/I,II,III/1/ABCDEFG – 16-548FM-12; Entity

Entity Parameters:

Voc, Uo = 28V

Isc, Io = 110 mA

Po = 770 mW

Ca, Co = 83 nF

La, Lo = 3 mH

Lo/Ro = 53.22 uH/Ω

**a = Lead monitoring B or blank**

*Special Conditions of Use:*

*In Class I, Division 2 installations, the subject equipment shall be mounted within an enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70).*

**KFD2-SL2-Ex-2a. Two-Channel Solenoid Driver**

NI/II/2/ABCD/T4, Ta = 50°C

AIS/I,II,III/1/ABCDEFG – 16-548FM-12; Entity

Entity Parameters (per channel):

Voc, Uo = 28V

Isc, Io = 110 mA

Po = 770 mW

Ca, Co = 83 nF

La, Lo = 3 mH

Lo/Ro = 53.22 uH/Ω

**a = Lead monitoring B or blank**

*Special Conditions of Use:*

*In Class I, Division 2 installations, the subject equipment shall be mounted within an enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70).*

Equipment Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C, D, temperature code T4 at a maximum ambient temperature of 60°C for model KFD2-SL2-Ex1, temperature code T4 at a maximum ambient temperature of 50°C for model KFD2-SL2-Ex2; intrinsically safe (entity) outputs for Class I, II, III, Division 1, applicable Groups A, B, C, D, E, F, G hazardous (classified) locations.

FM Approved for:

Pepperl+Fuchs, Inc.  
Twinsburg, OH

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

Class 3600	1998
Class 3610	1999
Class 3611	2004
Class 3810	2005

Original Project ID: 3028768

Approval Granted: *MAY 8, 2007*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

  
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Roger L. Allard  
Assistant Vice President

*MAY 8, 2007*  
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Date