



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

RSD-CFA-Ex.CN. ControlNet Adapter.

IS / I / 1 / ABCD / T4 Ta = 70°C - 116-0179
 IS / I / 1 / AEx ib IIC T4 Ta = 70°C - 116-0179

Vmax = 9.5 V Imax = 1 A Ci = 120nF Li = 0

	Voc (V)	Isc (mA)	Vt (V)	It (mA)	Ca (µF)	La (mH)
Any One Channel i.e. Ch 0						
Terminals 1,2,3,16,17,18	-	-	5.4	201	71	0.45
Terminals 5,6,7,20,21,22						
Terminals 9,10,11,24,25,26						
Terminals 13,14,15,28,29,30						

Special Conditions of Use:

1. Modules shall be supplied from FM Approved Power Supplies type numbers RSD2-PSD-Ex4.34.CON, RSD2-PSD2-Ex4.34.CON, or RSA6-PSD-Ex4.34.CON.
2. Modules shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

RSD-FC-Ex2.CN.3km. ControlNet Fiber Coupler.

IS / I / 1 / ABCD / T4 Ta = 70°C - 116-0179
 IS / I / 1 / AEx ib IIC T4 Ta = 70°C - 116-0179

Input:	Vmax (V)	Imax (mA)	Ci (µF)	Li (mH)
30 pin TTL-bus connector				
Any One Channel i.e. Ch 0				
Terminals 1,2,3,16,17,18	5.4	201	41	0.015
Terminals 5,6,7,20,21,22				
Terminals 9,10,11,24,25,26				
Terminals 13,14,15,28,29,30				



Output:	Voc (V)	Isc (mA)	Vt (V)	It (mA)	Ca (μ F)	La (mH)
30 pin TTL-bus connector Any One Channel i.e. Ch 2 Terminals 9,10,11,24,25,26 Terminals 13,14,15,28,29,30	-	-	5.4	201	71	0.45

Special Conditions of Use:

1. *Modules shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.*
2. *Modules shall be supplied from FM Approved type numbers RSD2-PSD-Ex4.34.CON, RSD2-PSD2-Ex4.34.CON, or RSA6-PSD-Ex4.34.CON Power Supplies or RSD-CFA-ExCN Copper Fiber Adapters.*

Equipment Ratings:

Intrinsically safe for use in Class I, Division 1, Groups A, B, C and D and Class I, Zone 1, Group IIC when installed in accordance with drawing number 116-0179; Temperature Class T4 Ta = 70°C.

Approved for:

Pepperl + Fuchs, Inc.
Twinsburg, OH



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

Class 3600	1998
Class 3610	1999

Original Project ID: 3007821

FM Approval Granted: December 5, 2000

Subsequent Revision Reports / Date FM Approval Amended

3011495

August 12, 2002

FM Global Technologies LLC

A handwritten signature in black ink, appearing to read "N. Ludlam", written over a horizontal line.

Nicholas P. Ludlam
Technical Team Manager

October 9, 2002

Date