



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

5331D3B, 5333D, 5343B. Temperature Transmitters.

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C - 5300Q502; Entity
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C - 5300Q502; Entity
NI / I / 2 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C
ANI / I / 2 / ABCD —5300Q502; Nonincendive Field Wiring

Entity Parameters:

V_{Max} = 30V, I_{Max} = 120 mA, P_{Max} = 0.84W, C_i = 1nF, L_i = 10µH.

NI Field Circuit Parameters:

V_{Max} = 35 V, C_i = 1nF, L_i = 10 µH.

Special Condition for Use:

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

6331x2z. Temperature Transmitters.

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C - 6331QF01; Entity
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C - 6331QF01; Entity
NI / I / 2 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C
ANI / I / 2 / ABCD —6331QF01; Nonincendive Field Wiring

Entity Parameters:

V_{Max} = 30V, I_{Max} = 120mA, P_{Max} = 0.84W, C_i = 1nF, L_i = 10 µH.

NI Field Circuit Parameters:

V_{Max} = 35 V, C_i = 1nF, L_i = 10 µH.

x = A (Zone 2 / DIV 2); B (Zone 0 / DIV 1).

z = A (One Channel); B (Two Channel).

Special Condition for Use:

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

To verify the availability of the Approved product, please refer to www.approvalguide.com

6333x1z. Temperature Transmitters.

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C - 6333QF01; Entity
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C - 6333QF01; Entity
NI / I / 2 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C
ANI / I / 2 / ABCD — 6333QF01; Nonincendive Field Wiring

Entity Parameters:

V_{Max} = 30V, I_{Max} = 120mA, P_{Max} = 0.84W, C_i = 6.2nF, L_i = 10 μH.

NI Field Circuit Parameters:

V_{Max} = 35 V, C_i = 6.2nF, L_i = 10 μH.

x = A (Zone 2 / DIV 2); B (Zone 0 / DIV 1).

z = A (One Channel); B (Two Channel).

Special Condition for Use:

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

5335C, 5335D, 5336D, 5337D Temperature Transmitters.

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C - 5300Q502; Entity
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C - 5300Q502; Entity
NI / I / 2 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C
ANI / I / 2 / ABCD — 5300Q502 Nonincendive Field Wiring

Entity Parameters:

V_{Max} = 30 V, I_{Max} = 120 mA, P_{Max} = 0.84 W, C_i = 1 nF, L_i = 10 μH;
V_t = 9.6 V, I_t = 28 mA, C_a = 3.5 μF, L_a = 35 mH, P_o = 67.2 mW.

NI Field Circuit Parameters:

V_{Max} = 35 V, C_i = 1 nF, L_i = 10 μH.

Special Condition for Use:

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

6335C2a, 6335D2a, 6336D2a, 6337D2a. Temperature Transmitter.

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C - 6335QF01; Entity
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C - 6335QF01; Entity

Entity Parameters:

V_{Max} = 30 V, I_{Max} = 120 mA, P_i = 0.84 W, C_i = 1nF, L_i = 10 μH;
V_t = 9.6 V, I_t = 28 mA, C_a = 3.5 μF, L_a = 35 mH, P_o = 67.2 mW.

a = A (one channel), B (two channels).

Special Condition for Use:

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

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Equipment Ratings:

PRetop models 5331D3B, 5333D 5335C, 5335D, 5336D, 5337D, 5343B, 6331A2z and 6333A1z are suitable for Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations.

PRetop models 5331D3B, 5333D, 5335C, 5335D, 5343B, 6331B2z, 6333B1z, 6335C2a, 6335D2a, 6336D2a and 6337D2a are Intrinsically safe for Class I, Division 1, Groups A, B, C and D and for Class I, Zone 0, Group IIC hazardous (classified) locations.

FM Approved for:

PR Electronics A/S
Roende, Denmark DK-8410

To verify the availability of the Approved product, please refer to www.approvalguide.com

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

Class 3600	2011
Class 3610	2010
Class 3611	2004
Class 3810	2005
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2009

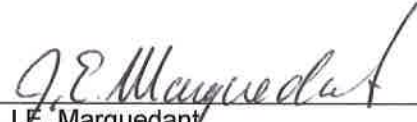
Original Project ID: 2D5A7.AX

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Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3010292	February 15, 2001		
3014788	August 8, 2002		
031211	December 30, 2003		
051216	December 21, 2005		
100611	July 8, 2010		
3042053	March 23, 2011		
3042805	February 3, 2012		
120531	June 12, 2012		
140829	September 23, 2014		
141002	March 20, 2014		
141028	November 11, 2014		

FM Approvals LLC


 J.E. Marquedant
 Manager, Electrical Systems

11 November 2014
 Date

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