



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

I. Intrinsically Safe Outputs

9411/21-2a0-b1, Field Device Coupler

NI/II/2/ABCD/T4 Ta = 75°C

AIS/I, II, III/1/ABCDEFGH; 9411 6 031 002 1; Entity

I/1/Ex m e [ja]/IIC/T4 Ta = 75°C; 9411 6 031 001 1; Entity

a = Connector design: 1 or 2

b = Channels: 3 or 4

Entity Parameters:

Voc = 15.7VDC, Isc = 245mA, Ca = 476nF, La = 0.58mH, Lo/Ro = 37 μ H/ Ω

Special Conditions of Use

1. Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

II. Intrinsically Safe Outputs With Optional Enclosures

9411/21-2ab-c1, Field Device Coupler

NI/II/2/ABCD/T4 Ta = 70°C; IP54

DIP/II, III/1,2/ EFG/T4 Ta = 70°C; IP54

AIS/I, II, III/1/ABCDEFGH; 9411 6 031 002 1; Entity

I/1/Ex m e [ja]/IIC/T4 Ta = 70°C; 9411 6 031 001 1; Entity; IP54

a = Connector design: 1 or 2

b = Enclosure: 3 or 4

c = channels: 3 or 4

Entity Parameters:

Voc = 15.7VDC, Isc = 245mA, Ca = 476nF, La = 0.58mH, Lo/Ro = 37 μ H/ Ω

Special Conditions of Use

1. For enclosure options 3, bonding between the conduit hubs shall be required.

III. Non-Intrinsically Safe Outputs

9411/11-2a0-b0, Field Device Coupler

NI/II/2/ABCD/T4 Ta = 75°C

I/1/Ex m e/IIC/T4 Ta = 75°C; 9411 6 031 002 1;

a = Connector design: 1 or 2

b = Channels: 3 or 4

Special Conditions of Use

1. *Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.*

IV. Non-Intrinsically Safe Outputs With Optional Enclosures

9411/11-2ab-c0, Field Device Coupler

NI/II/2/ABCD/T4 Ta = 70°C; IP54

DIP/II, III/1,2/ EFG/T4 Ta = 70°C; IP54

I/1/Ex m e/IIC/T4 Ta = 70°C; 9411 6 031 002 1; IP54

a = Connector design: 1 or 2

b = Enclosure: 3 or 4

c = channels: 3 or 4

Special Conditions of Use

1. *For enclosure options 3, bonding between the conduit hubs shall be required.*

Equipment Ratings:

I. Intrinsically Safe Outputs

Nonincendive for Class I, Division 2, Groups A, B, C & D,

Increased Safety and Encapsulation for use in Class I, Zone 1, Group IIC;

Hazardous (Classified) indoor/outdoor (IP54) Locations

Intrinsically Safe Outputs, with entity parameters, for Connections to Class I, II & III, Division 1, Groups A, B, C, D, E, F & G, and Class I, Zone 0, Group IIC, in accordance with manufacturer's Control Drawing No. 9411 6 031 002 1

II. Intrinsically Safe Outputs With Optional Enclosures

Nonincendive for Class I, Division 2, Groups A, B, C & D,

Increased Safety and Encapsulation for use in Class I, Zone 1, Group IIC;

Suitable for Class II, Division 2, Groups E, F & G

Dust-Ignition Proof for Class II & III, Division 1, Groups E, F & G

Hazardous (Classified) indoor/outdoor (TYPE 4X, IP54) Locations

Intrinsically Safe Outputs, with entity parameters, for Connections to Class I, II & III, Division 1, Groups A, B, C, D, E, F & G, and Class I, Zone 0, Group IIC, in accordance with manufacturer's Control Drawing No. 9411 6 031 002 1

III. Non-Intrinsically Safe Outputs

Nonincendive for Class I, Division 2, Groups A, B, C & D,

Increased Safety and Encapsulation for use in Class I, Zone 1, Group IIC;

Hazardous (Classified) indoor/outdoor (IP54) Locations



IV. Non-Intrinsically Safe Outputs With Optional Enclosures

Nonincendive for Class I, Division 2, Groups A, B, C & D,
Increased Safety and Encapsulation for use in Class I, Zone 1, Group IIC;
Suitable for Class II, Division 2, Groups E, F & G
Dust-Ignition Proof for Class II & III, Division 1, Groups E, F & G
Hazardous (Classified) indoor/outdoor (TYPE 4X, IP54) Locations

FM Approved for:

R. STAHL Schaltgeraete GmbH
Am Bahnhof 30
D-74638 Waldenburg (Wurt.) Germany



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

CAN/CSA-E60079-18	2004
CAN/CSA-E60079-7	2001
IEC 60529I	2001
CAN/CSA-E60079-11:02	2002
CAN/CSA-E60079-0:02	2002
CSA-C22.2 No. 94	2001
CSA-C22.2 No. 213	1987
CSA C22.2 No. 142	1993
CSA C22.2 No. 0.5	1999
CSA C22.2 No. 0.4	2004
CSA-C22.2 No. 157	2002

Original Project ID: 3026646C

Approval Granted: July 11, 2006²⁰

Subsequent Revision Reports / Date Approval Amended

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FM Approvals LLC

Richard B. Dunne
Group Manager

July 11, 2006
Date