



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

355-5a0b-1cR Echotel Ultrasonic Thru-Air Transmitter

IS/I /1/ABCD/T4 Ta = 80°C; 99-5067; Entity; Type 4X; IP66

NI//2/ABCD/T4 Ta = 80°C; Type 4X; IP66

Entity Parameters: Vmax 28.6V, I_{max} = 140 mA, P_{max} = 1.0W, Ci = 5.5nF, Li = 9.4uH.

a = Signal 0 = 4-20 mA without HART or 1 = 4-20 mA with HART

b = Accessories A = display and keypad or 0= none

c = Housing and conduit connection 0, 1, 2, 3

355-5a0b-1cd Echotel Ultrasonic Thru-Air Transmitter

IS/I /1/ABCD/T4 Ta = 80°C; 99-5067; Entity; IP67

NI//2/ABCD/T4 Ta = 80°C; IP67

Entity Parameters: Vmax 28.6V, I_{max} = 140 mA, P_{max} = 1.0W, Ci = 5.5nF, Li = 9.4uH..

a = Signal 0 = 4-20 mA without HART or 1 = 4-20 mA with HART

b = Accessories A = display and keypad or 0= none

c = Housing and conduit connection 0, 1, 2, 3, 6 or 7

d = Transducer B = Polypropylene or R = Kynar

Specific Conditions of Use:

1. Cable Glands if employed must be non-metallic.
2. Enclosure is end of line only and not for feed thru wiring.

Equipment Ratings:

Intrinsically safe apparatus for use in Class I, Division 1 Groups A, B, C & D hazardous locations when connected per drawing 099-5067 with entity parameters: V_{max} = 28.6 V, I_{max} = 140 mA, P_{max} = 1.0 W, Ci = 5.5 nF, Li = 9.4 μH; T-class = T4 at 80°C ; Nonincendive Equipment for Class I, Division 2, Groups A, B, C & D hazardous locations T-class = T4 at 80°C ; The aluminum and stainless steel enclosures have an environmental rating of IP66 and Type 4X. The plastic enclosures have an environmental rating of IP67.



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FM Approved for:

Magnetrol International, Inc.
5300 Belmont Road
Downers Grove, IL 60515



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

CSA-C22.2 No.213	2004
CSA-C22.2 No.142	2004
CSA-C22.2 No. 157	2006
CAN/CSA 60529	2005
CAN/CSA No. 94	2006

Original Project ID: 3033617C

Approval Granted: *March 23, 2009*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

J. E. Marquedant
Group Manager, Electrical

23 March 2009
Date