



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

HiC2851. Isolated Safety Switch Amplifier.

AIS/I,II,III/1/ABCDEFG – 16-534FM-12; Entity

I/O/[Ex ia] IIC – 16-534FM-12; Entity

NI/1/2/ABCD/T4, Ta = 60°C

I/2/Ex nA II T4, Ta = 60°C

Entity Parameters:

Voc, Uo (V)	Isc, Io (mA)	Po (mW)	Group	Ca,Co (µF)	La, Lo (mH)	Lo/Ro (µH/Ω)
Terminals: SL2:A5, B5						
10.5	17.1	45	A, B, IIC	2.41	121.5	792
			C, E, F, G, IIB	16.8	486.3	3167
			D, IIA	75	972.7	6334

Specific Conditions of Use:

- 1) In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the Canadian Electrical Code (C22.1).
- 2) In Class I, Zone 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the Canadian Electrical Code (C22.1). The equipment shall be installed in an enclosure with a minimum ingress protection rating of IP54 unless the apparatus is intended to be afforded an equivalent degree of protection by location.
- 3) In Class I, Zone 2 installations, the installer shall ensure protection of supply terminals against transient voltages exceeding the rated supply voltage by greater than 40%.



Member of the FM Global Group

Equipment Ratings:

Nonincendive for Class I, Division 2, Group A, B, C, D, T4; non-sparking, Ex nA II T4 for Class I, Zone 2, Group II; associated intrinsically safe apparatus with connections for Class I, II, III, Division 1, applicable Groups A, B, C, D, E, F, G; associated intrinsically safe apparatus [Ex ia] IIC with connections for Class I, Zone 0, Group IIC hazardous locations. The subject equipment is Approved for an ambient temperature range of -20 to +60°C.

FM Approved for:

Pepperl+Fuchs GmbH
Mannheim, Germany



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

CSA C22.2 No. 142	2004
CSA C22.2 No. 213	2008
CSA C22.2 No. 157	2006
CSA E60079-0	2007
CSA E60079-11	2006
CSA E60079-15	2006
CSA C22.2 No. 61010-1	2009

Original Project ID: 3033219C

Approval Granted: *October 19, 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

19 October 2009

Date