

Certificate of Compliance

Certificate: 1508071 (LR 53988)

Master Contract: 151079

Project: 1555445

Date Issued: 2004/05/10

Issued to: Endress + Hauser GmbH + Co. KG
Hauptstrasse 1
Maulburg, Baden-Wuerttemberg 79690
Germany
Attention: Mr. Andreas Steffan

The products listed below are eligible to bear the CSA Mark shown



Issued by: Ron Wildish



Authorized by: Nick Alfano, Operations
Manager



PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For
Hazardous Locations

[Ex ia] IIC: Class I, Zone 0:

Class I, Groups A,B,C,D; Class II, Groups E,F,G; Class III:

- FTC325 PFM and FTC625, Associated I.S. apparatus for level limit detection. AC Type Input rating 85-250VAC, 50/60Hz, 6.0VA; DC Type Input rating 20-30VAC, 50/60Hz, 3.5VA, 20-60VDC, 2.0W. Relay contacts rated 250 VAC/40 VDC, 2.0 A. Provides intrinsically safe circuits when connected per installation drawing number 960530-0071; I.S. output entity parameters $U_o(V_{oc}) = 13.9V$, $I_o(I_{sc}) = 99mA$, $P_o = 874mW$, $Co(Ca) = 162nF$ with $Lo(La) = 113uH$ or; $Co(Ca) = 62nF$ with $Lo(La) = 463uH$ or; $Co(Ca) = 12nF$ with $Lo(La)$



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= 963uH.

These barriers must be installed in suitable enclosures in a non-hazardous location and provide intrinsically safe circuits for switches, thermocouples, non-inductive resistive devices or CSA Certified entity equipment when installed per manufacturers control drawings. Maximum safe area voltage not to exceed 250 Vrms.

CLASS 2252 03 - PROCESS CONTROL EQUIPMENT

FTC325 PFM and FTC625, Level Limit Switch Interface. AC Type Input rating 85-250VAC, 50/60Hz, 6.0VA; DC Type Input rating 20-30VAC, 50/60Hz, 3.5VA, 20-60VDC, 2.0W. Relay contacts rated 250 VAC/40 VDC, 2.0 A.

APPLICABLE REQUIREMENTS

CAN/CSA-E60079-0:02 - Electrical Apparatus for Explosive Gas Atmospheres Part 0: General Requirements

CAN/CSA- E60079-11:02 - Electrical apparatus for explosive gas atmospheres, Part 11: Intrinsic safety "i"

CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-incendive Equipment for Use in Hazardous Locations

CAN/CSA-C22.2 No.1010.1-92 - Safety Requirements for Electrical Equipment for Measurement Control and Laboratory Use, Part 1: General Requirements



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
1555445	2004/05/10	Update of Report 1508071 to Cover Drawing and Listing Changes RE. Entity Parameters
1508071	2004/03/25	Original Certification.