



Certificate of Compliance

Certificate: 2589676 (LR 95368)

Master Contract: 204015

Project: 2635441

Date Issued: July 12, 2013

Issued to: ABB Automation GmbH
Stierstaedter Strasse 5
Frankfurt am Main, 60488
Germany
Attention: Thomas Bauer

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Jelena Dzeletovic

Issued by: Jelena Dzeletovic

PRODUCTS

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Div 1, Groups B, C, D; Class I, Div. 2, Groups A, B, C, D; T4A

Ex d, IIB+H2 T4

Class I, Zone 1, AEx d, IIB+H2 T4

Oxygen Gas Analyzer, Type LS4060, Power ratings 24V (18..32 V, max.), max 25W Ambient Temperature -20 to +55° C.

Note: LS4060 is supplied by Class 2 circuits.

APPLICABLE REQUIREMENTS

CSA Std. C22.2 No 0-10 - General Requirements - Canadian Electrical Code, Part II

CSA Std. C22.2 No 142-M1987 (R 2004) - Process Control Equipment



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- CSA Std. C22.2 No. 30 M1986 (R 2003) - Explosion-Proof Enclosures for Use in Class Hazardous Locations
- CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
- CAN/CSA-C22.2 No. 60079-0:07 - Electrical apparatus for explosive gas atmospheres – Part 0: General requirements
- CAN/CSA-C22.2 No. 60079-1:07 - Electrical apparatus for explosive gas atmospheres – Part 1: Flameproof enclosures "d"
- CAN/CSA-E60825-1:03 - Safety of laser products – Part 1: Equipment classification, requirements and user's guide
- IEC 60079-28:2006 (used as a guide) - Explosive atmospheres – Part 28: Protection of equipment and transmission systems using optical radiation
- FM Class 3810:2005 - Approval Standard for Electrical for Measurement, Control and Laboratory Use
- ISA-82.02.01 (IEC 61010-1 Mod) - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
- FM Class 3600:2011 - Approval Standard for Electrical Equipment for Use in Hazardous (Classified) Locations - General Requirements
- FM Class 3615:2006 - Approval Standard for Explosion-proof Electrical Equipment - General Requirements
- ANSI/ISA-60079-0:2009 (12.00.01) - Explosive Atmospheres - Part 0: Equipment-General Requirements
- ANSI/ISA-60079-1:2009 - Explosive Atmospheres - Part 1: Equipment Protection by



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(12.22.01)

Flameproof Enclosures "d"

MARKINGS

- (1) Submittor's name, trademark, or the CSA file number (adjacent the CSA Mark).
- (2) Catalogue / Model designation.
- (3) Complete electrical rating (amps, hertz, and volts).
- (4) Date code / Serial number traceable to month and year of manufacture.
- (5) Hazardous Location designations.
- (6) The symbol "A/Ex d". (as applicable)
- (7) Temperature code.
- (8) Maximum ambient 55°C
- (9) CLASS 1 LASER PRODUCT
- (10) The CSA Mark.
- (11) CSA Certificate Number 12.2589676X
- (12) The following cautions:
 - WARNING - DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE IS PRESENT
 - SEAL NOT REQUIRED