



Certificate of Compliance

Certificate: 70009779

Master Contract: 219166

Project: 70009779

Date Issued: August 14, 2014

Issued to: Pepperl+Fuchs GmbH
Lilienthalstrasse 200
Mannheim, 68307
GERMANY
Attention: Martin Holdefer

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



Issued by: Rachel Miranda
Rachel Miranda

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations
CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations –
Certified to U.S. Standards

Class II, Division 1, Groups E, F and G; Class III:

- LHC-M51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; temperature code, T6; ambient temperature range -50C to +70 °C; MWP 5802 psi (400 bar); Single Seal device.

Class I, Division 2, Groups A, B, C and D:

- LHC-M51 and PPC-M51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; temperature code, T6 (Ta = 40 °C), T4 (Ta = 70 °C); ambient temperature range -50C to +70 °C; MWP 5802 psi (400 bar), PPC-M51 580 psi (40 bar); Single Seal device.



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- LHCR-51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; temperature code, T6 (Ta = 40 °C), T4 (Ta = 70 °C); ambient temperature range - 50C to +70C; MWP 145 psi (10 bar);

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

Ex ia IIC:

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

LHC-M51 and PPC-M51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; intrinsically safe when connected per installation drawing 116-0386; temperature code T6 (Ta = 40 °C), T4 (Ta = 70 °C); MWP 5802 psi (400 bar), PPC-M51 580 psi (40 bar) ; Single Seal device.

- LHCR-51 and LHCS-51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; intrinsically safe when connected per installation drawing 116-0386; temperature code T6 (Ta = 40 °C), T4 (Ta = 70 °C); MWP 145 psi (10 bar) ;

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations – Certified to U.S. Standards

AEx ia IIC; Class I, Zone 0:

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

LHC-M51 and PPC-M51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; intrinsically safe when connected per installation drawing 116-0386; temperature code T6 (Ta = 40 °C), T4 (Ta = 70 °C); MWP 5802 psi (400 bar), PPC-M51 580 psi (40 bar); Single Seal.

- LHCR-51 and LHCS-51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; intrinsically safe when connected per installation drawing 116-0388; temperature code T6 (Ta = 40 °C), T4 (Ta = 70 °C); MWP 145 psi (10 bar) ;

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

Ex ia IIC:

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

LHC-M51 and PPC-M51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; 4-20mA version intrinsically safe when connected per installation drawing 116-0386, with entity parameters: $V_{max}(U_i) = 30$ Vdc, $I_{max}(I_i) = 300$ mA, $P_i = 1$ W, $C_i = 10$ nF, $L_i = 0$; PA/FF version intrinsically safe when connected per installation drawing 116-0387, with entity parameters $V_{max}(U_i) = 24$ Vdc, $I_{max}(I_i) = 250$ mA, $P_i = 1.2$ W, $C_i = 5$ nF,



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Li = 10uH and FISCO parameters $V_{max}(U_i) = 17.5$ Vdc, $I_{max}(I_i) = 500$ mA, $P_i = 5.5$ W, $C_i = 5$ nF, Li = 10uH; temperature code T6 ($T_a = 40$ °C), T4 ($T_a = 70$ °C); MWP 5802 psi (400 bar), PPC-M51 580 psi (40 bar); Single Seal.

- LHCR-51 and LHCS-51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; 4-20mA version intrinsically safe when connected per installation drawing 116-0388, with entity parameters: $V_{max}(U_i) = 30$ Vdc, $I_{max}(I_i) = 300$ mA, $P_i = 1$ W, $C_i = 10$ nF, $L_i = 0$; PA/FF version intrinsically safe when connected per installation drawing 116-0399, with entity parameters $V_{max}(U_i) = 24$ Vdc, $I_{max}(I_i) = 250$ mA, $P_i = 1.2$ W, $C_i = 5$ nF, $L_i = 10$ uH and FISCO parameters $V_{max}(U_i) = 17.5$ Vdc, $I_{max}(I_i) = 500$ mA, $P_i = 5.5$ W, $C_i = 5$ nF, $L_i = 10$ uH; temperature code T6 ($T_a = 40$ °C), T4 ($T_a = 70$ °C); MWP 145 psi (10 bar) ;

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations – Certified to U.S. Standards

AEx ia IIC; Class I, Zone 0:

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

LHC_M51 and PPC-M51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; 4-20mA version intrinsically safe when connected per installation drawing 116-0386, with entity parameters: $V_{max}(U_i) = 30$ Vdc, $I_{max}(I_i) = 300$ mA, $P_i = 1$ W, $C_i = 10$ nF, $L_i = 0$; PA/FF version intrinsically safe when connected per installation drawing 116-0387, with entity parameters $V_{max}(U_i) = 24$ Vdc, $I_{max}(I_i) = 250$ mA, $P_i = 1.2$ W, $C_i = 5$ nF, $L_i = 10$ uH and FISCO parameters $V_{max}(U_i) = 17.5$ Vdc, $I_{max}(I_i) = 500$ mA, $P_i = 5.5$ W, $C_i = 5$ nF, $L_i = 10$ uH; temperature code T6 ($T_a = 40$ °C), T4 ($T_a = 70$ °C); MWP 5802 psi (400 bar), PMC51 580 psi (40 bar) ; Single Seal.

- LHCR-51 and LHCS-51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; 4-20mA version intrinsically safe when connected per installation drawing 116-0388, with entity parameters: $V_{max}(U_i) = 30$ Vdc, $I_{max}(I_i) = 300$ mA, $P_i = 1$ W, $C_i = 10$ nF, $L_i = 0$; PA/FF version intrinsically safe when connected per installation drawing 116-0399, with entity parameters $V_{max}(U_i) = 24$ Vdc, $I_{max}(I_i) = 250$ mA, $P_i = 1.2$ W, $C_i = 5$ nF, $L_i = 10$ uH and FISCO parameters $V_{max}(U_i) = 17.5$ Vdc, $I_{max}(I_i) = 500$ mA, $P_i = 5.5$ W, $C_i = 5$ nF, $L_i = 10$ uH; temperature code T6 ($T_a = 40$ °C), T4 ($T_a = 70$ °C); MWP 145 psi (10 bar) ;

CLASS 2252 05 - PROCESS CONTROL EQUIPMENT

CLASS 2252 85 - PROCESS CONTROL EQUIPMENT – Certified to U.S. Standards

- LHC-M51 and PPC-M51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; MWP 5802 psi (400 bar), PMC51 580 psi (40 bar).

- LHCR-51 and LHCS-51, Pressure Transmitters, 4-20mA version rated 45Vdc max, 23mA, PA/FF version rated 32Vdc, 1.25W; Enclosure Type 4X/6P; MWP 145 psi (10 bar).



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APPLICABLE REQUIREMENTS

- CAN/CSA-C22.2 No. 0-10 - General Requirements – Canadian Electrical Code, Part II
- CSA Std C22.2 No. 25-1966 - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
- CAN/CSA-C22.2 No. 94-M91 - Special Purpose Enclosures
- CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
- CSA Std C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- 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. 61010.1-04 - Safety Requirements for Electrical Equipment for Measurement Control and Laboratory Use, Part 1: General Requirements
- FMRC 3600 - 1998 - Electrical Equipment for Use in Hazardous (Classified) Locations, General Requirements
- FMRC3610 - 2007 - Intrinsically Safe Apparatus for Use in Class I, II & III, Division 1, and Class I, Zone 0 & 1 Hazardous (Classified) Locations
- FMRC3611 - 2004 - Nonincendive Electrical equipment for Use in Class I and Class II, Division 2, and Class III, Division 1 and 2 Hazardous (Classified) Locations
- FMRC 3810 - 2005 - Electrical and Electronic Test, Measuring, and Process Control Equipment
- ANSI/NEMA 250 - 1991 - Enclosures for Electrical Equipment
- ANSI/ISA-12.27.01-2003 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids



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MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The following information is applied on the equipment:

- The CSA Mark, with the C/US indicator
- Company's identification
- Model designation
- Date code or serial number
- CSA Certificate number
- Electrical rating
- Hazardous Location designations.
- Temperature code rating
- Maximum ambient temperature
- Maximum working pressure (MWP)
- CSA Enclosure Type 4X/6P.
- The warning (Class II, III versions), "DO NOT REMOVE COVER WHILE CIRCUITS ARE ALIVE", or equivalent wording
- The warning (FOR Division 2 versions), "WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIV. 2"
- The warning (for Division 2 versions), "WARNING: DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS"
- The words (for intrinsically safe versions), "INTRINSICALLY SAFE" and "Exia"
- Reference to installation drawing (for intrinsically safe versions)
- Where applicable, the rating "SINGLE SEAL" or "DUAL SEAL"

Markings are applied to metal nameplates secured by rivets in bottomed holes or to CSA Certified self-adhesive nameplates (Eltex, type Top-Script 101720 or WOLCO, type 31052008). Refer to Descriptive Documents Package for details.

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".