



Certificate of Compliance

Certificate: 2673619

Master Contract: 158887

Project: 70173723

Date Issued: June 26, 2018

Issued to: Phoenix Contact GmbH & Co. KG
Flachmarktstrasse 8
Blomberg,
Nordrhein-Westfalen D-32825
GERMANY

Attention: Aaron Kreider

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:

Ian Hulse

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

CLASS - C225882 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups C and D:

Ex nA[nL] IIB T4 Gc:

Class I, Zone 2 AEx nA[nC] IIB T4 Gc

FB-4SP/B, 4 Spur Coupler Module, FB-6SP, 6 Spur Coupler Module FB-8SP, 8 Spur Coupler Module, FB-10SP, 10 Spur Coupler Module and FB-12SP, 12 Spur Coupler Module: Ambient range: -50 deg C to + 90 deg C; 32VDC max (Groups C, D and IIB)

Maximum input voltage limited in accordance CAN/CSA-C22.2 No. 60079-15:12 Ed. 3 / ANSI/UL 60079-15:09

Uo/Voc= input voltage

Io/Isc = 56 mA

Po = 1.792W

Co/Ca = 80 nF

Lo/La = 0.26 mH

when installed per installation drawing 3305.



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Conditions of Certification

1. This device is an OPEN type equipment that must be used within a suitable end-use system enclosure. The suitability of the enclosure is subject to investigation by the Local Authority Having Jurisdiction at the time of installation.
2. The maximum source inductance that may be connected to the input terminals is 20 mH

Class I, Division 2, Groups A, B, C, D:
Ex nA[nL] IIC T4 Gc:
Class I, Zone 2 AEx nA[nC] IIC T4 Gc

FB-4SP/B, 4 Spur Coupler Module, FB-6SP, 6 Spur Coupler Module, FB-8SP, 8 Spur Coupler Module, FB-10SP, 10 Spur Coupler Module and FB-12SP, 12 Spur Coupler Module: Ambient range: -50 deg C to + 90 deg C; 24VDC max (Groups A,B,C,D and IIC)

Maximum input voltage limited in accordance CAN/CSA-C22.2 No. 60079-15:12 Ed. 3 / ANSI/UL 60079-15:09

U_o/V_{oc} = input voltage

I_o/I_{sc} = 56 mA

P_o = 1.344 W

C_o/C_a = 80 nF

L_o/L_a = 0.26 mH

when installed per installation drawing 3305.

Conditions of Certification

1. This device is an OPEN type equipment that must be used within a suitable end-use system enclosure. The suitability of the enclosure is subject to investigation by the Local Authority Having Jurisdiction at the time of installation.
2. The maximum source inductance that may be connected to the input terminals is 20 mH.



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APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M10 (R2001)	General Requirements – Canadian Electrical Code, Part II
C22.2 No. 142-M1987 (R2009)	Process Control Equipment
C22.2 No. 213-M1987 (R2008)	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA-C22.2 No. 60079-0:11 Ed. 5	Explosive Atmospheres - Part 0: Equipment - General requirements
CAN/CSA-C22.2 No. 60079-15:12 Ed. 3	Electrical apparatus for explosive gas atmospheres - Part 15: Construction, test and marking of type of protection “n” electrical apparatus
UL 916 (4th Ed.)	Energy Management Equipment
ANSI/ISA-12.12.01-2013	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ANSI/UL 60079-0:09	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
ANSI/UL 60079-15:09	Electrical apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection “n”

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 products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

- Submitter's name, trademark, or the CSA file number (adjacent the CSA Mark).
- Catalogue / Model designation.
- Complete electrical rating (amps, hertz, and volts).
- Entity parameters - Reference to Control Drawing PNR 3902, PNR 3229, PNR 3894, PNR 3903, PNR 3321/PNR 3305
- Date code / Serial number traceable to month and year of manufacture.
- The CSA Mark with adjacent C_US qualifiers.
- Hazardous Location designations.
- The symbol “Ex nA [nL] IIC Gc ”
- The symbol “AEx nA [nC] IIC Gc”
- Temperature code
- The following statements
- WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT TRUNK CONNECTOR WHEN A FLAMMABLE OR COMBUSTIBLE ATMOSPHERE IS PRESENT



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
70173723	2018-06-26	Introduction of FB-4BSP, FB-8SP and FB-10SP Spur Coupler Modules.
2673619	2014-01-27	cCSAus Certification of the FB-6SP (6 Spur coupler module) and the FB-12SP (12 Spur Coupler Module). The 32V version is approved to Groups C and D and IIB. The 24V version is approved to groups A,B,C,D and IIC.