CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1052414 (LR 203012) **Master Contract:** 203012

Project: 2132160 **Date Issued:** 2009/02/05

Issued to: **ABB Automation Products GmbH**

72 Schillerstrasse
Minden, 32425
Germany
Attention: Mr. Ralf Schaffer

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

Issued by: Marin Banu, P. Eng.

Authorized by: Patricia Pasemko, Operations Manager

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations
CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Div 2, Groups A, B, C and D; Class II, Div 2, Groups E, F and G; Class III; Enclosure Type 4X:

Model TZID-C, P/N V18345-x0x2x2xx0x Intelligent Positioner; input rated 30V dc max, 4-20mA; max output pressure 90 psi; max ambient 85 Deg C.

.

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

Class I, Div 1, Groups A, B, C and D; Class II, Div 1, Groups E, F and G; Class III, Div 1; Enclosure Type 4X:

Model TZID-C, P/N V18345-x0x2x2xx0x, Intelligent Positioner; input rated 30V dc max, 4-20mA; max output pressure 90 psi; intrinsically safe with entity parameters of: Terminals 11/12: V max = 30V,

I max = 104mA, Ci = 6.6nF, Li = 0uH; Terminals 81/82: V max = 30V, I max = 110mA,Ci =4.2nF, Li = 0uH; Terminals 83/84: V max = 30V, I max = 96mA, Ci =4.2nF, Li =0uH; Terminals 31/32: V max = 30V,

I max = 110mA, Ci =6.6nF, Li = 0uH; Terminals 41/42 and 51/52: V max = 30V, I max = 96mA, Ci =3.7nF,

Li =0uH; Terminals Limit 2 41/42 and Limit 1 51/52: V max = 15.5V, I max = 52mA, Ci =20nF, Li =30uH; when installed per installation Drawing No 901064; Temperature Code T4; Max Ambient 85 Deg C.

Note 1: The "x" in P/N denotes minor mechanical variations or optional features.

Note 2: Local communication interface LKS shall not be used in hazardous location.

Note 3: Each pair of conductors of each intrinsic safety circuit shall be shielded.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 0-19991(R 2006) - General Requirements – Canadian Electrical Code, Part II

CSA Std C22.2 No. 25-1966 (R 2004) - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations

CSA Std C22.2 No. 94-1976 (R 2006) - Special Purpose Enclosures

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

CAN/CSA-C22.2 No. 157-92 (R 2006) - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA Std C22.2 No. 213-M1987(R 2004) - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.

CSA INTERNATIONAL

Supplement to Certificate of Compliance

Certificate: 1052414 **Master Contract:** 203012

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
2132160	2009/02/05	Update of Report 1052414 for TZID-C Positioners to include new components and new PCB layout.
2057786	2008/08/30	Update Report 1052414 to accept revised circuit boards and new coating.