

Certificate of Compliance

Certificate:	1000852
Project:	70095689
Issued to:	Eaton Electric Limited
	Great Marlings Butterfield Luton, Bedfordshire LU2 8DL UNITED KINGDOM
	Attention: Peter Rigling

Master Contract: 152423

Date Issued: October 21, 2016

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



Issued by:

PRODUCTS

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

Ex nA [ia] IIC; Class I, Zone 0, 1, Groups IIC, IIB, IIA:

Ex nC [ia] IIC; Class I, Zone 0, 1, Groups IIC, IIB, IIA:

MTL 5000 Series Transformer Isolated Barriers; input rated 35Vdc max, 120 mA max; relay contact rated 250 Vac, 2A; 40Vdc, 2A (applicable units only); providing intrinsically safe outputs (linear) with parameters as listed below; Max. Temp. Code T4A @ Max. Ambient 60 Deg. C; Um = 250V:

Model MTL5011B; Uo = 10.5 V, Io = 14 mA, Po = 0.04 W; Co = 2.4 uF (IIC), 7.2 uF (IIB), 19.2 uF (IIA); Lo = 165 mH (IIC), 495 mH (IIB), 1320 mH (IIA); per Installation Dwg. SCI-678.

Model MTL5012; Uo = 10.5 V, Io = 14 mA, Po = 0.04 W; Co = 2.4 uF (IIC), 7.2 uF (IIB), 19.2 uF (IIA); Lo = 165 mH (IIC), 495 mH (IIB), 1320 mH (IIA); per Installation Dwg. SCI-737.

Model MTL5014; Uo = 10.5 V, Io = 14 mA, Po = 0.04 W; Co = 2.4 uF (IIC), 7.2 uF (IIB), 19.2 uF (IIA); Lo = 165 mH (IIC), 495 mH (IIB), 1320 mH (IIA); per Installation Dwg. SCI-738.

Model MTL5015; Uo = 10.5 V, Io = 14 mA, Po = 0.04 W; Co = 2.4 uF (IIC), 7.2 uF (IIB), 19.2 uF (IIA); Lo = 165 mH (IIC), 495 mH (IIB), 1320 mH (IIA); per Installation Dwg. SCI-739.



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Model MTL5018; Uo = 10.5 V, Io = 14 mA, Po = 0.04 W; Co = 2.4 uF (IIC), 7.2 uF (IIB), 19.2 uF (IIA); Lo = 165 mH (IIC), 495 mH (IIB), 1320 mH (IIA); per Installation Dwg. SCI-677.

Model MTL5023; Uo = 23.8 V, Io = 140 mA, Po = 0.833 W; Co = 0.17 uF (IIC), 0.51 uF (IIB), 1.36 uF (IIA); Lo = 1.32 mH (IIC), 3.96 mH (IIB), 10.56 mH (IIA); per Installation Dwg. SCI-558.

Model MTL5024; Uo = 23.8 V, Io = 140 mA, Po = 0.833 W; Co = 0.17 uF (IIC), 0.51 uF (IIB), 1.36 uF (IIA); Lo = 1.32 mH (IIC), 3.96 mH (IIB), 10.56 mH (IIA); per Installation Dwg. SCI-574.

Model MTL5031; Uo = 26.6 V, Io = 94 mA, Po = 0.63 W; Co = 0.13 uF (IIC), 0.39 uF (IIB), 1.04 uF (IIA); Lo = 3.0 mH (IIC), 9.0 mH (IIB), 24.00 mH (IIA); per Installation Dwg. SCI-603.

Model MTL5032; Uo = 10.5 V, Io = 14 mA, Po = 0.04 W; Co = 2.4 uF (IIC), 7.2 uF (IIB), 19.2 uF (IIA); Lo = 165 mH (IIC), 495 mH (IIB), 1320 mH (IIA); with additional I.S. outputs per Installation Dwg. SCI-545.

Model MTL5040; Uo = 28 V, Io = 93 mA, Po = 0.65 W; Co = 0.13 uF (IIC), 0.39 uF (IIB), 1.04 uF (IIA); Lo = 3.0 mH (IIC), 9.0 mH (IIB), 24.00 mH (IIA); per Installation Dwg. SCI-765.

Model MTL5046; Uo = 28 V, Io = 93.7 mA, Po = 0.66 W; Co = 0.13 uF (IIC), 0.39 uF (IIB), 1.04 uF (IIA); Lo = 3.0 mH (IIC), 9.0 mH (IIB), 24.00 mH (IIA); per Installation Dwg. SCI-541.

Model MTL5051; Uo = 14 V, Io = 192 mA, Po = 0.8 W; Co = 0.73 uF (IIC), 2.93 uF (IIB), 7.8 uF (IIA); Lo = 0.8 mH (IIC), 2.41 mH (IIB), 6.44 mH (IIA); with additional I.S. outputs per Installation Dwg. SCI-761.

Model MTL5061; Uo = 28 V, Io = 93 mA, Po = 0.65 W; Co = 0.13 uF (IIC), 0.39 uF (IIB), 1.04 uF (IIA); Lo = 3.0 mH (IIC), 9.0 mH (IIB), 24.00 mH (IIA); per Installation Dwg. SCI-670.

Model MTL5073; Uo = 1.2 V, Io = 3.8 mA, Po = 0.001 W; Co = 1000 uF (IIC), 1000 uF (IIB), 1000 uF (IIA); Lo = 1000 mH (IIC), 1000 mH (IIB), 1000 mH (IIA); with additional I.S. outputs per Installation Dwg. SCI-618.

Model MTL5074; Uo = 1.2 V, Io = 3.8 mA, Po = 0.001 W; Co = 1000 uF (IIC), 1000 uF (IIB), 1000 uF (IIA); Lo = 1000 mH (IIC), 1000 mH (IIB), 1000 mH (IIA); with additional I.S. outputs per Installation Dwg. SCI-698.

Model MTL5081; Uo = 1.2 V, Io = 57 mA, Po = 0.017 W; Co = 1000 uF (IIC), 1000 uF (IIB), 1000 uF (IIA); Lo = 11 mH (IIC), 42 mH (IIB), 89 mH (IIA); with additional I.S. outputs per Installation Dwg. SCI-863.

Model MTL5314; Uo = 28 V, Io = 93.3 mA, Po = 0.65 W; Co = 0.13 uF (IIC), 0.39 uF (IIB), 1.04 uF (IIA); Lo = 3.0 mH (IIC), 9.0 mH (IIB), 24.00 mH (IIA); per Installation Dwg. SCI-930.

Notes:

1. These barriers must be installed in suitable enclosures in a non-hazardous or Class I, Zone 2 or Class I, Division 2 location and provide intrinsically safe circuits for switches, thermocouples, non-inductive resistive devices or CSA Certified equipment when installed per manufacturer's control drawings. Non-I.S. terminals must not be connected to any equipment that uses or generates in excess of 250 Vrms or DC.

2. Uo and Io can not occur simultaneously; Uo represents the highest voltage of the either channel or of a combination of terminals; Io represents the current of the parallel combination of terminals. MTL5053 Fieldbus Isolator, input rated 35 Vdc max, 135 mA max, with Fieldbus Terminator, Model FBT1 (for use in Class I locations only, T-Code T4); providing intrinsically safe field circuits (linear) with parameters as listed below; Temp. Code T4A @ Max. Ambient 60 Deg. C; Um = 250V: Uo = 22 V, Io = 216 mA, Po = 1.19 W; Co = 0.26 uF



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(IIC), 0.8 uF (IIB), 2.1 uF (IIA); Lo = 0.52 mH (IIC), 1.56 mH (IIB), 4.16 mH (IIA); per Installation Dwg. SCI-754.

Note: These barriers must be installed in suitable enclosures in a non-hazardous or Class I, Zone 2 or Class I, Division 2 location and provide intrinsically safe circuits for switches, thermocouples, non-inductive resistive devices or CSA Certified equipment when installed per manufacturer's control drawings. Non-I.S. terminals must not be connected to any equipment that uses or generates in excess of 250 Vrms or DC.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-10	General Requirements - Canadian Electrical Code Part II.
CSA Std C22.2 No.142-M1987	Process Control Equipment
CSA Std C22.2 No. 213-M1987	Non-Incendive Electrical Equipment for Use in Class I, Division 2
	Hazardous Locations
CAN/CSA-E60079-0:07	Electrical Apparatus for Explosive Gas Atmospheres - General
	Requirements
CAN/CSA-E60079-11:02	Electrical Apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic
	Safety "i"
CAN/CSA-E60079-15:02	Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Type of
	protection "n"



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
70095689	October 21, 2016	Update to report 1000852 to remove model MTL5082 and change of company name on certificate from Measurement Technology Limited to Eaton Electric Limited.
2442112	September 29, 2011	Update report 1000852 to include alternate connectors for CON3, CON4 and CON 5.
1564160	December 20, 2004	Update of Report 1000852 to change UM Valve from 60 to 250V; and to cover changes to 5043/5046.
1150435	January 22, 2001	Update to Report 1000852, to include models MTL5040, MTL 5051 and MTL5314.
1127140	September 28, 2000	Update to Report 1000852 to cover report corrections, addition of Factory F6 (Phoenix Contact GmbH), for classes 2258 03 and 2258 04. Also updated report 1080987 to cover revised construction to Model MTL 5995 in this project.
1000852	June 30, 2000	Original certification of MTL 5000 Series Isolating Barriers, for hazardous locations.