Certificate of Compliance

Certificate: 2132558 **Master Contract:** 157759

Project: 70011596 **Date Issued:** October 24, 2014

Issued to: **Turck Inc.**

3000 Campus Dr
Plymouth, MN 55441-2656
USA
Attention: Brad Larson

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

Gary Benden

Issued by: Gary Benden

PRODUCTS

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - - For Hazardous Locations - Certified to US Standards

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

Class I, Division 2, Groups A, B, C and D; T4 **Ta = -25ºC to 70ºC**

Series IM1 Isolator Barriers: Models IM1-12Ex-R, IM1-12Ex-T, IM1-12Ex-MT, IM1-121Ex-R, IM1-121Ex-T, IM1-22Ex-R, IM1-22Ex-T, IM1-22Ex-MT, IM12-22Ex-R and IM1-451Ex-T with rated input of 20-125 Vdc, 3 watts max. / 20-250 Vac 60 mA max. Model IM1-451Ex-R with rated input of 20-125 Vdc, 3 watts max. / 20-250 Vac 125 mA max.

With associated intrinsically safe circuits having the following entities:

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Model	Terminals	Voc (V)	Isc (mA)	Po (mW)	Ca (uF) AB/CE/DFG	La (mH) AB/CE/DFG
IM1-12Ex-R IM1-121Ex-T IM1-22Ex-MT IM1-121Ex-R IM1-121-Ex-T	1-4	9.6	11	27	3.6/26.0/210	250/922/1H
IM1-22Ex-R IM1-22Ex-T IM1-22Ex-MT IM12-22Ex-R	1-4, 2-5	9.6	11	27	3.6/26.0/210	250/922/1H
IM1-22Ex-R IM1-22Ex-T IM1-22Ex-MT IM12-22Ex-R	1-2-4-5	9.6	22	54	3.6/26.0/210	67/246/579
IM1-451Ex-R IM1-451Ex-T	1-2, 4-5, 6-7, 9-10	11.5	12.8	37	1.6/11.2/46.0	222/781/1H
IM1-451Ex-R IM1-451Ex-T	1-2, 4-5, 6-7, 9-10	11.5	51	147	1.6/11.2/46.0	12.5/49.0/108

Notes:

- Devices must be installed according to manufacturer's drawing IS-1.201.

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- These devices are OPEN type equipment that must be used within a suitable end-use system enclosure, the interior of which is accessible only through the use of a tool. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.

Notes:

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91	General Requirements – Canadian Electrical Code, Part II
C22.2 No. 142-M1987	Process Control Equipment
CAN/CSA-C22.2 No. 157-92	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
C22.2 No. 213-M1987	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations