



# Certificate of Compliance

**Certificate:** 1400814

**Master Contract:** 151079

**Project:** 70104757

**Date Issued:** 2016-11-03

**Issued to:** Endress + Hauser GmbH + Co. KG  
 Hauptstrasse 1  
 Maulburg, Baden-Württemberg 79690  
 GERMANY  
 Attention: Stefan Probst

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



**Issued by:** *Anil Sodhi*  
 Anil Sodhi

## PRODUCTS

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

**[Ex ia] IIC: Class I, Zone 0:**

**Class I, Div. 1, Groups A,B,C,D; Class II, Groups E,F,G; Class III:**

- FTW325 Associated I.S. apparatus for level limit detection, ratings per table, relay contacts rated 250 VAC/40 VDC, 2.0 A; provides intrinsically safe circuits when connected per installation drawing number 960532-0071; I.S. output entity parameters per table.

Model	Electrical Ratings			Entity Parameters (per Channel)					
	Volts	Hz	VA / W	Voc/Uo (V)	Isc/Io (mA)	Po (mW)	Groups	La/Lo (mH)	Ca/Co (uF)
FTW325 AC Type	85-250	50/60	4.5 VA	12.9	15.5	116	A,B/IIC	0.5	0.710
	20-30	50/60	2 VA					1.0	0.550
DC Type	20-60	DC	1.2 W				C,D/ IIB,IIA	2.0	2.9
				5.0	2.1				



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These barriers must be installed in suitable enclosures in a non-hazardous location and provide intrinsically safe circuits for switches, thermocouples, non-inductive resistive devices or CSA Certified entity equipment when installed per manufacturers control drawings. Maximum safe area voltage not to exceed 250 Vrms.

**APPLICABLE REQUIREMENTS**

- 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. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
- CAN/CSA-C22.2 No. 61010-1-12 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1: General Requirements



## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70104757	2016-11-03	Update of report # 1400814 to include 61010-Ed3 for OrdLoc in the Hazloc Certificate
2387220	2011-01-12	Update to report 1400814 to include new casting compound for transformers.
1400814	2003-02-17	Original Certification