CSA INTERNATIONAL

Certificate of Compliance

Certificate: 2074393 **Master Contract:** 244058

Project: 2475797 **Date Issued:** January 23, 2012

Issued to: **GE Intelligent Platforms**

240 The Village
Butterfield Business Park
Bedfordshire, Luton LU2 8DL
United Kingdom
Attention: John Purdy

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

Rawn Murphy

Issued by: Rawn Murphy

PRODUCTS

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

Ex nA [ia] IIC:

8000 Series Process Control I/O System, (Suitable for use in Class I, Zone 2, Group IIC); consisting of Module Carrier, Field Terminal Assemblies, Carrier Extension Assemblies, Power Supply, Railbus Isolator and I/O Modules; input rated 18.5 - 36V dc max, 5A (per Power Supply); Max. Ambient 70 Deg. C; Modules indicated, provide intrinsically safe circuits with Entity Parameters, when connected as per installation drawing SCI-837. System components are as listed below:

Model	Description	Inst. Drawing #	Temperature Code
8720-CA-04	Carrier	SCI-837	---
8727-CA-08	Carrier	SCI-837	---
8729-CA-08	Carrier	SCI-837	---
8723-CA-RB	Railbus Isolator Carrier	SCI-837	---
8725-CA-RB	Railbus Isolator Carrier	SCI-837	---
8724-CA-PS	PSU Carrier	SCI-837	---
8621-FT-IS	Field Terminal	SCI-837	---
8622-FT-IS	Field Terminal	SCI-837	---
8623-FT-IS	Field Terminal	SCI-837	---

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8624-FT-IS	Field Terminal	SCI-837	---
8625-FT-IS	Field Terminal	SCI-837	---
8626-FT-IS	Field Terminal	SCI-837	---
8030-CE-RH	I.S. Carrier Extender RH	SCI-837	---
8031-CE-LH	I.S. Carrier Extender LH	SCI-837	---
8920-PS-DC	Power Supply	SCI-837 & SCI-842	T4
8922-RB-IS	Railbus Signal Isolator	SCI-837 & SCI-843	T4

Module Desc. T-Code Inst. DWG Entity Parameters

Model #

				Terminals	Uo (V)	Io (mA)	Po (W)	Groups	Co (uF)	Lo (mH)
8201-HI-IS	8-Chl AnalogIn w/HART)	T4	SCI-837 & SCI-838	Each pair	28	93	0.65	IIC	0.13	3
								IIB	0.39	9
								IIA	1.04	24
8202-HO-IS	8-Chl. Analog Output w/HART	T4	SCI-837 & SCI-964	Each pair	24.6	93	0.57	IIC	0.116	3.95
								IIB	0.87	16.2
								IIA	3.12	32.7
8204-AO-IS	8-Chl. Analog Output Mod.	T4	SCI-837 & SCI-986	Each pair	24.6	93	0.57	IIC	0.116	3.95
								IIB	0.87	16.2
								IIA	3.12	32.7

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				Terminals	Uo (V)	Io (mA)	Po (W)	Groups	Co (uF)	Lo (mH)
8205-TI-IS	8-Chl. I.S. THC/ mV Input	T4	SCI-837 & SCI-1006	1-2, 3-4, 5-6, 7-8, 13-14, 15-16	16.4*	63.7*	0.131	IIC	0.41	8.5
								IIB	2.44	32.4
								IIA	9.98	69.2
				9-10, 11-12	1.5	1.3	0.0005	IIC	1000	1000
								IIB	1000	1000
								IIA	1100	1000
8206-TI-IS	8-Chl. I.S. RTD/ ohm Input	T4	SCI-837 & SCI-1007	1-2-17-18, 3-4-19-20, 5-6-21-22, 7-8-23-24, 9-10-25-26, 11-12-27-28, 13-14-29-30, 15-16-31-32	16.4*	350*	0.718	IIC	0.39	0.3
								IIB	2.47	1.3
								IIA	9.96	2.42
8215-DO-IS	4 Ch. Sol. Driver	T4	SCI-837 & SCI-840	Each pair	25	110	0.69	IIC	0.18	2.7
								IIB	0.54	9
								IIA	1.44	24
8220-DI-IS	8/16 Ch Sw. Prox. Detect.	T4	SCI-837 & SCI-841	Each pair	10.5	14	0.04	IIC	2.67	176

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								IIB	8	633
								IIA	21.3	1000

				Terminals	Uo (V)	Io (mA)	Po (W)	Groups	Co (uF)	Lo (mH)
8230-AI-IS	8-Chl. Analog Input	T4	SCI-837 & SCI-963	Each pair	15.75	20	0.315	IIC	0.17	5
								IIB	0.6	25
								IIA	---	---
8223-PI-IS	Digital Output Module	T4	SCI-837 & SCI-966	1 and 4/10 or 7 and 4/10	1.2	57.4	0.0172	IIC	1000	10.6
								IIB	1000	40.4
								IIA	1000	87.1
				2 and 4/10 or 8 and 4/10	9.56	1	0.0024	IIC	3.7	1000
								IIB	27	1000
								IIA	255	1000
				3 and 4/10 or 9 and 4/10	9.56	11.1	0.0264	IIC	3.7	263
								IIB	27	922
								IIA	255	1000
				5 and 4/10 or 6 and 4/10	27.4	93.2	0.639	IIC	0.08	3
								IIB	0.67	9
								IIA	2.26	24
				11 and 4/10	9.56	11.1	0.0264	IIC	3.7	263

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								IIB	27	922
								IIA	255	1000
				2 + 5 and 4/10 or 8 + 6 and 4/10	27.4	94.2	0.642	IIC	0.08	3
								IIB	0.67	9
								IIA	2.26	24
				1 + 5 and 4/10 or 7 + 6 and 4/10	27.4 *	151 *	0.656	IIB	0.67	5.3
								IIA	2.26	14.1
				5 + 6 and 4/10	27.4	186.4	1.28	IIB	0.67	3.5
				IIA	2.26	9.3				
					Ui (V)	Ii (mA)	Pi (W)	Groups	Ci (uF)	Li (mH)
				11 and 13 or 15 and 16	30	100	0.5	IIC, IIB, IIA	0	0

Notes:

1.
This equipment is OPEN type equipment that must be installed in accordance with the manufacturer's instructions and used within a suitable end-use system enclosure
in a Class I, Zone 2 or Class I, Division 2 hazardous location, or a non-hazardous location (Max Ambient 70 Deg C).
The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.

2. The Modules provide intrinsically safe circuits for switches, thermocouples, non-inductive resistive devices or CSA Certified (Entity) equipment when installed per manufacturer's control drawings.

3. Non-I.S. terminals of all 8000 System components must not be connected to any equipment that uses or generates in excess of 60 Vrms or DC unless the voltage is limited by an adequate means acceptable to the authority having jurisdiction.

4. Uo and Io parameters denoted with the asterisk (*) 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.

APPLICABLE REQUIREMENTS

CAN/CSA Standard C22.2 No. 0-M91 (Reaffirmed 2006)	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No. 142-M1987 (Reaffirmed 2004)	Process Control Equipment
CAN/CSA Standard E60079-0:07	Electrical Apparatus for Explosive Gas Atmospheres - General Requirements
CAN/CSA Standard E60079-11:02 (Reaffirmed 2006)	Electrical apparatus for explosive gas atmospheres, Part 11: Intrinsic Safety “i”
CAN/CSA Standard E79-15-02	Electrical apparatus for explosive gas atmospheres, Part 15:Electrical Apparatus with type of protection "n"