



Certificate of Compliance

Certificate: 1350433

Master Contract: 165863

Project: 70167492

Date Issued: May 17, 2018

Issued to: IFM Syntron GmbH
Argenstrasse 19
88079 Kressbronn
GERMANY

Attention: Mr. Riedle.

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



Issued by: E Giusti
E Giusti

PRODUCTS

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

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations -
CERTIFIED TO U.S. STANDARDS

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

Capacitive Proximity Switches KI5030, KI5031, KI5032, KI 5037, KX5001, KX5002, KX5004. Rated 7.5 – 15 V DC. Type 4. Maximum ambient of 60 °C. Temperature Code T6. Intrinsically safe with the following entity parameters and when installed per drawing No. 2131:

MODEL #	Li (μH)	Ci (nF)	V _{max} (V)	I _{max} (mA)	Pi (mW)
KI5030	1	375	15	50	120
KI5031	3	375.64	15	50	120
KI5032	5	376.28	15	50	120
KI5037	25	382.58	15	50	120
KX5001	1	375	15	50	120
KX5002	3	375.64	15	50	120
KX5004	10	377.88	15	50	120



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Inductive Proximity Switches

NT5001, NE5001, NF5001, NF5002, NF5003, NF5004, NG5001, NG5002, NG5003, NG5004, NI5001, NI5002, NI5003, NI5004, NN5001, NN5002, NS5002, NS5003, . Rated 7.5 – 15 V DC. Type 4. Temperature code T6 at maximum ambient of 70 °C, Temperature code T5 at maximum ambient of 80 °C. Intrinsically safe with the following entity parameters and when installed per drawing No. 2131.

MODEL #	Li (μH)	Ci (nF)	Vmax (V)	Imax (mA)	Pi (mW)
NE5001	70	80	15	50	120
NF5001	340	140	15	50	120
NF5002	340	140	15	50	120
NF5003	130	140	15	50	120
NF5004	130	140	15	50	120
NG5001	45	145	15	50	120
NG5002	45	145	15	50	120
NG5003	50	155	15	50	120
NG5004	50	155	15	50	120
NI5001	140	145	15	50	120
NI5002	140	145	15	50	120
NI5003	110	145	15	50	120
NI5004	110	145	15	50	120
NN5001	135	110	15	50	120
NN5002	135	110	15	50	120
NT5001	70	80	15	50	120
NS5002	110	80	15	50	120
NS5003	110	80	15	50	120
NN5008	130	140	15	50	120
NN5009	130	140	15	50	120
NN5010	135	140	15	50	120
NN5011	140	140	15	50	120

Inductive Proximity Switches

NF500A, NF501A, NG500A, NG501A, NI500A, NI501A, NM500A and NM501A. Rated 7.5 – 15 V DC. Type 6. Temperature code T6 at maximum ambient of 70°C, temperature code T5 at maximum ambient of 80°C. Intrinsically safe with the following entity parameters and when installed per drawing No. CD 1

MODEL #	Li (μH)	Ci (nF)	Vmax (V)	Imax (mA)	Pi (mW)
NF500A	145	210	15	50	120
NF501A	115	210	15	50	120
NG500A	85	200	15	50	120
NG501A	190	200	15	50	120
NI500A	120	250	15	50	120
NI501A	210	230	15	50	120
NM500A	450	250	15	50	120
NM501A	710	220	15	50	120

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APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No.157-R2016	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA Std C22.2 No. 142-M1987-R2104	Process Control Equipment
C22.2 No.14- 2013-R2018	Industrial Control Equipment
CAN/CSA-C22.2 No. 94.1-07 (R2012)	Special Purpose Enclosures
UL Std No. 913 - 2006	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
ANSI/UL Std No. 508 - 2018	Industrial Control Equipment
UL Std No. 50-2007 (R2012)	Enclosures for Electrical Equipment

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The manufacturer is required to apply the following markings:

- CSA Monogram with C / US Indicator
- Submittor Identification
- Model No.
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation
- Entity Parameters
- Temperature Code
- Maximum Ambient Temperature
- Special Enclosure Designation
- The Words "INTRINSICALLY SAFE"
- The symbol Exia
- Reference to Installation Instructions

For very small units the marking can be reduced in accordance with CAN/CSA-22.2 No. 157 5.4 to the following:

- CSA Monogram with NRTL / C Indicator
- Submittor Identification



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- Model No.
- Serial Number, Date Code or Month and Year of Manufacture
- The symbol Exia
- Reference to Installation Instructions

REQUIRED METHOD OF MARKING:

The models employ one of the following methods of marking:

<u>Heat Shrink:</u>	mfg. By, Raychem, Cat. No. D-SCE series.
<u>Adhesive label:</u>	Black, mfg. By 3M, cat. No. Scotchmark Thermoscript. Blue, Mfg. By Wolco Polymatic, Polyester
<u>Direct marking</u>	Marking on Metal parts with laser

Nameplate adhesive label material approval information:

<u>Heat Shrink:</u>	mfg. By, Raychem, Cat. No. D-SCE series.
<u>Adhesive label:</u>	Black, mfg. By 3M, cat. No. Scotchmark Thermoscript. Blue, Mfg. By Wolco Polymatic, Polyester