



Characteristics:

General Description:

The single and dual channel Switch/Proximity Detector Repeater, D5032S and D5032D module is a unit suitable for applications requiring SIL 3 level (according to IEC 61508:2010 Ed. 2) in safety related systems for high risk industries. The unit can be configured for switch or proximity detector (EN60947-5-6, NAMUR),

NO or NC and for NE or ND SPST relay output contact.

Each channel enables a Safe Area load to be controlled by a switch, or a proximity detector, located in Hazardous Area.

Fault detection circuit (DIP switch configurable) is available for both proximity sensor and switch equipped with end of line resistors. In case of fault, when enabled it de-energizes the corresponding output relay and turns the fault LED on; when disabled the corresponding output relay repeats the input line open or closed status as configured.

D5032D is programmable via dip switches as single input and two independent outputs. Out 2 can be programmed for output duplicating Out 1 or Fault detection Out. In case of duplication, relay actuation can be independently configured for each output. In case of fault output, relay actuation can be programmed as normally energized or normally de-energized.

Mounting on customized Termination Boards, in Safe Area / Non Hazardous Location or in Zone 2 / Class I, Division 2 or Class I, Zone 2.

Functional Safety Management Certification:

G.M. International is certified by TUV to conform to IEC61508:2010 part 1 clauses 5-6 for safety related systems up to and included SIL3.



Front Panel and Features:

	 SIL 3 according to IEC 61508:2010 Ed. 2
	for Tproof = $2/10$ years ($\leq 10\%$ / >10 % of total SIF),
	considering 100 mA max contact current.
ന്നി	 SIL 2 according to IEC 61508:2010 Ed. 2
8ºº	for Tproof = 20 years (\leq 10% of total SIF),
	considering 100 mA max contact current.
	 PFDavg (1 year) 4.92 E-05, SFF 90.06 %, with independent
	channel configuration.
	PFDavg (1 year) 4.96 E-05, SFF 93.16 %, with D5032D used
	PEDavg (1 year) 4.66 E-05, SEE 93.53 %, with D5032D used
PWR 🔵 2	as duplicator (both channels) or as fault indicator (only 1st ch.). PFDavg (1 year) 4.66 E-05, SFF 93.53 %, with D5032D used as fault indicator (only 2nd ch.).
STS 🔵 2	Systematic capability SIL 3.
	 2 fully independent channels.
FLT 🔴 2	 Input from Zone 0 (Zone 20), installation in Zone 2.
PWR 🔵 1	NO/NC switch/proximity Detector Input,
STS 🔵 1	NE/ND relay actuation mode.
	 Field open and short circuit detection.
FLT 🔴 1	 Three port isolation, Input/Output/Supply.
	• EMC Compatibility to EN61000-6-2, EN61000-6-4,
	EN61326-1, EN61326-3-1 for safety system.
	 In-field programmability by DIP Switch.
	• ATEX, IECEX, UL & C-UL, FM, FMC, INMETRO,
	EAC-EX, UKR TR n. 898, NEPSI, TUV Certifications.
SIL 3	 TÜV Functional Safety Certification.
	 Type Approval Certificate DNV and KR for
D5032	maritime applications.
00002	 High Density, two channels per unit.
07 08	• Simplified installation using customized Termination Boards.
0 9 0 10	 250 Vrms (Um) max. voltage allowed to the
	instruments associated with the barrier.

Ordering Information:

Model:	D5032	
1 channel 2 channels		S D

SIL 3 Switch/Proximity Detector Repeater, **Relay Output Termination Board** Models D5032S, D5032D

Technical Data:

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Supply:
24 Vdc nom (18 to 30 Vdc) reverse polarity protected,
ripple within voltage limits \leq 5 Vpp, 2 A time lag fuse internally protected.
Current consumption @ 24 V: 35 mA for 2 channels D5032D,
18 mA for 1 channel D5032S with short circuit input and relay energized, typical.
Power dissipation: 0.85 W for 2 channels D5032D, 0.45 W for 1 channel D5032S
with 24 V supply voltage, short circuit input and relay energized, typical.
Isolation (Test Voltage):
I.S. In/Out 2.5 KV; I.S. In/Supply 2.5 KV; I.S. In/ I.S In 500 V;
Out/Supply 500 V; Out/Out 500 V.
Input switching current levels:
ON ≥ 2.1 mA (1.9 to 6.2 mA range), OFF ≤ 1.2 mA (0.4 to 1.3 mA range),
switch current \approx 1.65 mA \pm 0.2 mA hysteresis.
<i>Fault current levels:</i> open fault ≤ 0.2 mA, short fault ≥ 6.8 mA
(when enabled both faults de-energize channel relay with single channel unit D5032S or
de-energize channel relay with D5032D used as dual channel unit or
actuate the fault relay out with D5032D used as fault signaling unit).
Input equivalent source: 8 V 1 KΩ typical (8 V no load, 8 mA short circuit).
Output:
voltage free SPST relay contact.
Contact material: Ag Alloy (Cd free), gold plated.
Contact rating: 100 mA 50 Vac 5 VA, 100 mA 50 Vdc 5 W (resistive load).
Min. switching current 1 mA.
Mechanical / Electrical life: 5 * 10 ⁶ / 1 * 10 ⁶ operation, typical.
Operate / Release time: 8 / 4 ms typical.
Bounce time NO / NC contact: 3 / 8 ms typical.
Frequency response: 10 Hz maximum.
Compatibility:
C E CE mark compliant, conforms to Directive: 2014/34/EU ATEX, 2014/30/EU EMC, 2014/35/EU LVD, 2011/65/EU RoHS.
🕻 🧲 2014/34/EU ATEX, 2014/30/EU EMC, 2014/35/EU LVD, 2011/65/EU RoHS.
Environmental conditions:
Operating: temperature limits – 40 to + 70 °C, relative humidity 95 %, up to 55 °C.
Storage: temperature limits – 45 to + 80 °C.
Safety Description:
😥 🍯 🐵 🖤 📾 🐜 🖍 🗰 🗽 🐵 🕍 📧
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I,
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4
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ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment.
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals:
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C.
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals:
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCialICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15.
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C \leq Ta \leq 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-11, ABNT NBR IEC60079-15.
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C < Ta < 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-11,
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. IECEx BVS 10.0072 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-11, ABNT NBR IEC60079-15, ABNT NBR IEC60079-26. UL & C-UL E222308 conforms to UL913, UL 60079-0, UL60079-11, UL60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11,
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. IINMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-11, ABNT NBR IEC60079-15, ABNT NBR IEC60079-26. UL & C-UL E222308 conforms to UL913, UL 60079-0, UL60079-11, UL60079-15,
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, IEC60079-15. IECEx BVS 10.0072 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-11, ABNT NBR IEC60079-15, ABNT NBR IEC60079-26. UL & C-UL E222308 conforms to UL913, UL 60079-0, UL60079-11, UL60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11, CSA-C22.2 No. 213 and CSA-E60079-15 for C-UL. FM 3046304 and FMC 3046304C conforms to Class 3600, 3610, 3810, 3611,
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCialICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, IEC60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. IECEX BVS 10.0072 X conforms to IEC60079-0, O, ABNT NBR IEC60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11, CSA-C22.2 No. 213 and CSA-E60079-15 for C-UL. FM 3046304 and FMC 3046304C conforms to Class 3600, 3610, 3810, 3611, ANSI/ISA-60079-0, ANSI/ISA-60079-11, ANSI/ISA-60079-15, C22.2 No.157,
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI /// 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI /// 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCialICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C < Ta < 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, OL60079-11, IEC60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-11, ABNT NBR IEC60079-15, ABNT NBR IEC60079-26. UL & C-UL E222308 conforms to UL913, UL 60079-0, UL60079-11, UL60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11, CSA-C22.2 No. 213 and CSA-E60079-15 for C-UL. FM 3046304 and FMC 3046304C conforms to Class 3600, 3610, 3810, 3611, ANSI/ISA-60079-0, ANSI/ISA-60079-11, ANSI/ISA-60079-15, C22.2 No.142, C22.2 No.157, C22.2 No.213, C22.2 No. 60079-0, C22.2 No. 60079-11, C22.2 No. 60079-15.
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCialICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C < Ta < 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. IECEX BVS 10.0072 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-11, ABNT NBR IEC60079-15, ABNT NBR IEC60079-26. UL & C-UL E222308 conforms to UL913, UL 60079-0, UL60079-11, UL60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11, CSA-C22.2 No. 213 and CSA-E60079-15 for C-UL. FM 3046304 and FMC 3046304C conforms to Class 3600, 3610, 3810, 3611, ANSI/ISA-60079-0, ANSI/ISA-60079-11, ANSI/ISA-60079-15, C22.2 No.142, C22.2 No.157, C22.2 No.213, C22.2 No. 60079-0, C22.2 No. 60079-15, C-IT.ME92.B.00206 conforms to GOST 30852.0, 30852.10, 30852.14.
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2 ExnAnC[ia] / IIC / T4 X UKR TR n. 898: 2 ExnAnCiaIICT4 X / Exia X associated apparatus and non-sparking electrical equipment. Uo / Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C < Ta < 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to ABNT NBR IEC60079-11, IEC60079-1
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 G / 2 / EX nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 ABC / 2 / 2 / ABCD / 2 / ABCD / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / 2 / A / A
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 AIS / I, III / II / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2 ExnAnCiaIICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-15. INMETRO DNV 13.0109 X conforms to UE60079-0, OL60079-0, ABNT NBR IEC60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11, CSA-C22.2 No. 213 and CSA-E60079-15 for C-UL. FM 3046304 and
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / II / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / V / ABCD / T4 A S / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / V / ABCD / T4 AIS / I, III / II / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / V / ABCD / T4 AIS / I, III / II / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / V / IIC / T4 C = 20 / V / V / IIC / T4 / AS / III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 C = 20 / V / X / 20 / ASC / C = 20 / A / ASC / C = 20 / A / ASC
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C \leq Ta \leq 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. IECEX BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11, CSA-C22.2 No. 213 and CSA-E60079-15 for C-UL. FM 3046304 and FMC 3046304C conforms to Class 3600, 3610, 3810, 3611, ANSI/ISA-60079-0, ANSI/ISA-60079-11, ANSI/ISA-60079-15, C22.2 No.142, C22.2 No.157, C22.2 No.213, C22.2 No. 60079-0, C22.2 No. 60079-11, C22.2 No.60079-15. C-IT.ME92.B.00206 conforms to GGST 30852.0, 30852.10, 30852.14. CL 16.0036 X conforms to JCTY 7113, FOCT 22782.5-78, JCTY IEC 60079-15. GYJ14.1406X conforms to GB3836.1, GB3836.4; GB3836.20. TÜV Certificate No. C-IS-236198-04, SIL 2 / SIL 3 conforms to IEC61508:2010 Ed. 2. TÜV Certificate No. C-IS-236198-09, SIL 3 Functional Safety Certificate conforms to IEC61508:2010 Ed.2, for Management of Functional Safety.
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / II / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 A / S / III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2 ExnAnCialICT4 X UK R T n. 898: 2 ExnAnCialICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C ≤ Ta ≤ 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, EN60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-15. INMETRO DNV 13.0109 X conforms to ULE600079-0, UL60079-11, UL60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, C
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI /// 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI /// 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C \leq Ta \leq 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, IEC60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-15, ANST NBR IEC60079-15, ABNT NBR IEC60079-26. UL & C-UL E222308 conforms to UL913, UL 60079-0, UL60079-11, UL60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11, CSA-C22.2 No. 213 and CSA-E60079-15 for C-UL. FM 3046304 and FMC 3046304C conforms to Class 3600, 3610, 3810, 3611, ANSI/ISA-60079-0, ANSI/ISA-60079-11, ANSI/ISA-60079-15, C22.2 No.142, C22.2 No.157, C22.2 No.213, C22.2 No. 60079-0, C22.2 No. 60079-11, C22.2 No. 60079-15. C-IT.ME92.B.00206 conforms to GSB3861., GB38362.0, 30852.10, 30852.10, 30852.10, 30852.10, 30852.10 = 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI / 1 / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, III / I / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 G / 2 / EX / Z / EX nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4 / AIS / I, III / I / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 ABC / 2 / 2 / ABCD / 2 / ABCD / 7 / A / 2 / 2 / AEX nA / 2 / 2 / AEX nA / 2 / 2 / AEX nA / 2 / AEX nA / 2 / 2 / 2 / AEX nA / 2 / 2 / 2 / AE
ATEX: II 3(1)G Ex nA nC [ia Ga] IIC T4 Gc, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I IECEx / INMETRO / NEPSI: Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I, UL: NI /// 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, AEx nA nC [ia Ga] IIC T4 Gc C-UL: NI /// 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, Ex nA nC [ia Ga] IIC T4 Gc FM: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / AEx nA nC [ia] / IIC / T4 FMC: NI-AIS / I / 2 / ABCD / T4, AIS / I, II, III / 1 / ABCDEFG, I / 2 / Ex nA nC [ia] / IIC / T4 EAC-EX: 2ExnAnC[ia]IICT4 X UKR TR n. 898: 2ExnAnCiaIICT4 X, Exial X associated apparatus and non-sparking electrical equipment. Uo/Voc = 10.5 V, Io/Isc = 22 mA, Po/Po = 56 mW at terminals 7-8, 9-10. Um = 250 Vrms, -40 °C \leq Ta \leq 70 °C. Approvals: BVS 10 ATEX E 113 X conforms to EN60079-0, EN60079-11, IEC60079-15. IECEx BVS 10.0072 X conforms to IEC60079-0, IEC60079-11, IEC60079-15. INMETRO DNV 13.0109 X conforms to ABNT NBR IEC60079-0, ABNT NBR IEC60079-15, ANST NBR IEC60079-15, ABNT NBR IEC60079-26. UL & C-UL E222308 conforms to UL913, UL 60079-0, UL60079-11, UL60079-15, ANSI/ISA 12.12.01 for UL and CSA-C22.2 No.157-92, CSA-E60079-0, CSA-E60079-11, CSA-C22.2 No. 213 and CSA-E60079-15 for C-UL. FM 3046304 and FMC 3046304C conforms to Class 3600, 3610, 3810, 3611, ANSI/ISA-60079-0, ANSI/ISA-60079-11, ANSI/ISA-60079-15, C22.2 No.142, C22.2 No.157, C22.2 No.213, C22.2 No. 60079-0, C22.2 No. 60079-11, C22.2 No. 60079-15. C-IT.ME92.B.00206 conforms to GSB3861., GB38362.0, 30852.10, 30852.10, 30852.10, 30852.10, 30852.10 = 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,

in disconnect screw terminal blo ug terminations up to 2.5 mm².

Location: installation in Safe Area/Non Hazardous Locations or Zone 2, Group IIC T4 or Class I, Division 2, Group A,B,C,D, T4 or Class I, Zone 2, Group IIC, T4. Protection class: IP 20.

Dimensions: Width 12.5 mm, Depth 123 mm, Height 120 mm.

Parameters Table:

Safety Description

	Group	Co/Ca	Lo/La	Lo/Ro
	Cenelec	(µF)	(mH)	(μΗ/Ω)
Terminals 7-8, 9-10	IIC	2.4	78.3	635.9
Uo/Voc = 10.5 V	IIB	16.8	313.4	2543.9
lo/lsc = 22 mA Po/Po = 56 mW	IIA I IIIC	75 66 16.8	626.9 1028.6 313.4	5087.9 8347.4 2543.9

Maximum External Parameters

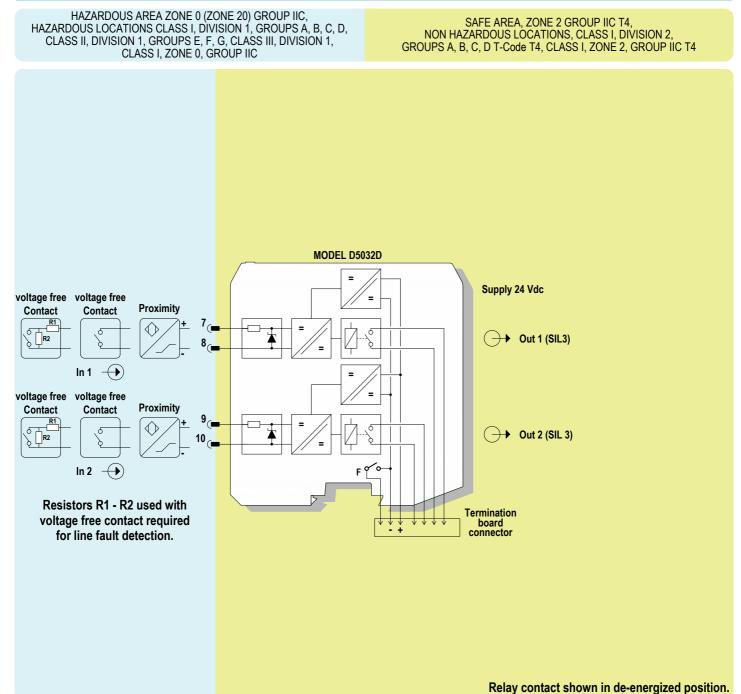
NOTE for USA and Canada:

IIC equal to Gas Groups A, B, C, D, E, F and G IIB equal to Gas Groups C, D, E, F and G IIA equal to Gas Groups D, E, F and G

Image:



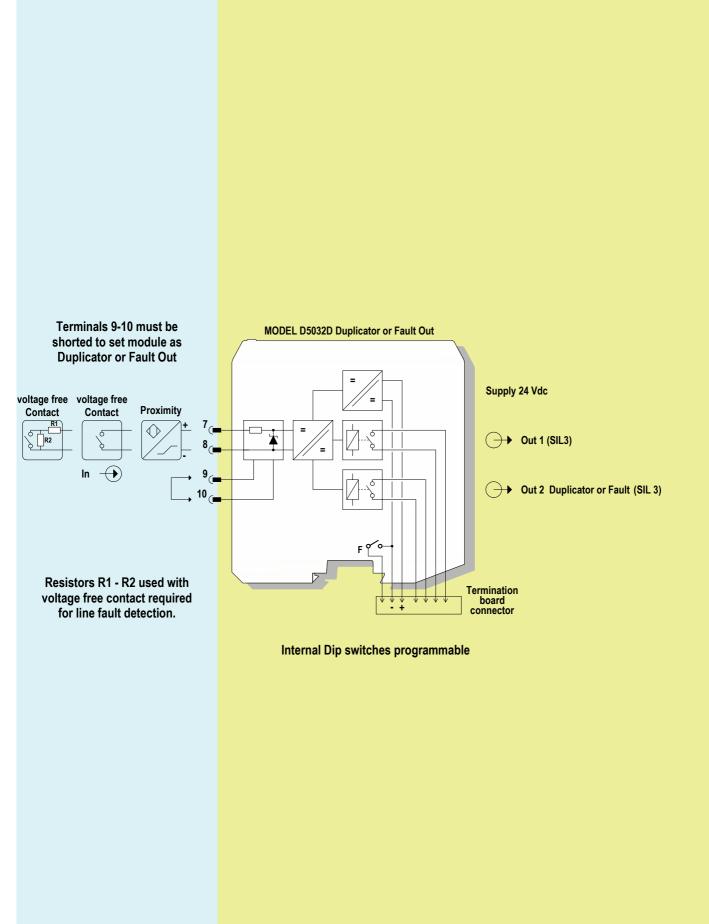
Function Diagram:



Function Diagram:

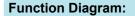
HAZARDOUS AREA ZONE 0 (ZONE 20) GROUP IIC, HAZARDOUS LOCATIONS CLASS I, DIVISION 1, GROUPS A, B, C, D, CLASS II, DIVISION 1, GROUPS E, F, G, CLASS III, DIVISION 1, CLASS I, ZONE 0, GROUP IIC

SAFE AREA, ZONE 2 GROUP IIC T4, NON HAZARDOUS LOCATIONS, CLASS I, DIVISION 2, GROUPS A, B, C, D T-Code T4, CLASS I, ZONE 2, GROUP IIC T4



G.M. International DTS0284-11 Page 3/4

Relay contact shown in de-energized position.



HAZARDOUS AREA ZONE 0 (ZONE 20) GROUP IIC, HAZARDOUS LOCATIONS CLASS I, DIVISION 1, GROUPS A, B, C, D, CLASS II, DIVISION 1, GROUPS E, F, G, CLASS III, DIVISION 1, CLASS I, ZONE 0, GROUP IIC

SAFE AREA, ZONE 2 GROUP IIC T4, NON HAZARDOUS LOCATIONS, CLASS I, DIVISION 2, GROUPS A, B, C, D T-Code T4, CLASS I, ZONE 2, GROUP IIC T4

