

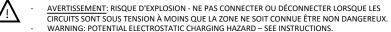
## INCREASED SAFETY

Ex ec IIC Gc Class I, Zone 2, AEx ec IIC Gc Class I, Division 2, Groups A, B, C D



Intrinsic safety barrier is not required. Vmax ≤ 36 Vdc

- WARNING: EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT WHILE CIRCUITS ARE LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.



- AVERTISSEMENT: RISQUE POTENTIEL DE DÉCHARGES ELECTROSTATIQUES – VOIR CONSIGNES.

## **Functional ratings**

These ratings do not supersede Hazardous Location values Unom ≤ 36 DC Inom ≤ 4 to 20 mA

## Schedule of Limitations:

- -- Due to the risk of discharge, the non-metallic parts of the equipment and of all non-metallic accessories have to be protected from electrostatic charging during installation and operation (e.g. only wipe with a damp cloth and do not expose to high voltage fields).
- -- The device may only be powered by a power supply unit with a limited energy electric circuit in accordance with CSA/UL/EN/IEC 61010-1:2010 chapter 6.3.1/6.3.2 and 9.4 or Class 2 according to CSA 223/UL 1310
- -- For use in the type of protection increased safety Ex ec, and for Zone 2 (EPL Gc), and Class I, Division 2 applications, the transmitter T31 shall be installed completely inside an additional enclosure, providing a degree of protection of not less than IPS4 according to CSA/UL 60079-0 and CSA/UL 60079-7. The ambient temperature within the end use enclosure shall not exceed the limits of the permissible ambient temperature range. Clearances, creepage distances, and separations as defined in CSA/UL 60079-7 must be considered for the installation.
- -- If the head transmitter T31, in type of protection increased safe and for use in Zone 2 (EPL Gc) and Class I, Division 2 applications, the field housing must be equipped with suitable cable glands, certified according to CSA/UL 60079-0 and CSA/UL 60079-7, providing a degree of ingress protection of not less than IPS4.
- -- This component has not been evaluated for process pressure and process temperature, or any other source of heating or cooling.
- Wire end ferrules must be used with spring terminals and when using flexible cables with a cable cross section of = 0.3 mm<sup>2</sup>
- The end user shall ensure appropriate earthing of any metallic field housing (optional) and any metallic accessories if used.
- -- The maximum temperature rise recorded was +42°K. These components do not have any surface that achieves a temperature greater than 135°C/100°C/85°C with a 5K safety factor when operated under full load conditions at an ambient of range of 85°C/50°C/35°C respectively, see table "Ambient Temperature and TCode Guidance".
- -- The factory programming 4-pins covered terminal (CDI Connection) are not used during normal operations

Applicable requirements see CSA certificate 80144694

## Installation Notes T31

- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Install per Canadian Electrical Code or National Electrical Code (NFPA 70).
- Use supply wires suitable for 5°C above surroundings.

Terminal Specifications	Torque	Cable version	Cable cross-section
Screw terminals cable version, stripping length = min. 7 mm (0.39 in)	0.4 Nm	Solid or flexible	0.2 to 1.5 mm² (24 to 16 AWG)
Push-in terminals cable version, stripping length = min. 10 mm (0.39 in)	-	Solid or flexible	0.2 to 1.5 mm² (24 to 16 AWG)
	-	Flexible with wire end ferrules with/without plastic ferrule	0.25 to 1.5 mm <sup>2</sup> (24 to 16 AWG)

TITLE:		PART NUMBER:	REVISION DATE:	
INSTALLATION INSTRUCTION CSA, INCREASED SAFETY, T31			09/12	2/2022
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FORT WAYNE, INDIANA 260-484-2580