

Hazardous (Classified) Location:

INTRINSICALLY SAFE - SÉCURITÉ INTRINSÈQUE,

Ex ia [ia Ga] IIC T6...T4 Gb

Class I, Zone 1, AEx ia [ia Ga] IIC T6...T4 Gb

Class I, Division 2, Groups A, B, C, D; T6...T4 (Non Incendive Field Wiring (NIFW))

Class I, Division 2, Groups A, B, C, D - NIFW and Associated Apparatus for Class I, Division 1, Groups A, B, C, D

Nonhazardous Location

INTRINSICALLY SAFE - SÉCURITÉ INTRINSÈQUE

Class I, Division 2 / Groups A, B, C, D Ex / AEx ia [ia Ga] IIC Gb



CSA Approved Associated Apparatus must meet the following parameters:

$U_o \leq U_i$ $I_o \leq I_i$ $P_o \leq P_i$ $C_a \geq C_i + C_{cable}$ $L_a \geq L_i + L_{cable}$
 Transmitter entity parameters are as follows:
 U_i or $V_{max} \leq 30$ V DC $C_i = 0$
 I_i or $I_{max} \leq 100$ mA $L_i = 0$
 $P_i \leq 800$ mW

$V_{oc} + V_{oc}$ of Handheld device $< V_{max}$, $I_{sc} + I_{sc}$ of Handheld device $< I_{max}$,
 $P_o + P_o$ of Handheld device $< P_i$, $C_a > C_i + C_{cable} + C_i$ of Handheld device,
 $L_a > L_i + L_{cable} + L_i$ of Handheld device, when Programming Handheld device is used.

WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE

WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS.

AVERTISSEMENT: RISQUE POTENTIEL DE DÉCHARGES ÉLECTROSTATIQUES - VOIR CONSIGNES.

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

AVERTISSEMENT: RISQUE EXPLOSIF- NE JAMAIS BRANCHEZ OU DECONNECTEZ QUAND LES CIRCUITS

INTERNES SONT SOUS TENSION À MOINS QUE LA ZONE SOIT PAS À RISQUES.

WARNING: KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE;

AVERTISSEMENT: GARDER LE COUVERCLE BIEN FERMÉ TANT QUE LES CIRCUITS SONT SOUS TENSION



CONDITIONS OF ACCEPTABILITY

- Due to the risk of discharge the non-metallic parts of the equipment and all of the non-metallic accessories have to be protected from electrostatic charging during installation and operation (e.g. only wipe with damp cloth and do not expose to high voltage fields).
- The equipment is for use under atmospheric conditions only, the permissible pressure range is 1.1 bar (80 to 110 kPa) and the permissible normal oxygen content is typically 21 % v/v.
- The end user shall ensure appropriate earthing of the metallic field housing (optional) and all metallic accessories if used (wall or pipe mounting accessories for the field housing and the DIN rail clip for the head transmitter) upon installation.
- When connecting the head transmitter 79T71/79T72 with a certified circuit of category "ib" into an IIC or IIB hazardous area the ignition class changes to: Ex ib IIC or Ex ib IIB.
- The use of the display type D10 with the head transmitter 79T71/79T72 by connecting display to the CDI interface of the head transmitter is only permitted for Zone 1 (EPL Gb), Zone 2 (EPL Gc) and Class I, Division 2 applications.
- The CDI interface is only allowed to be used for connecting the display type D10. Irrespective of inside or outside the hazardous area, no other circuits/equipment is allowed to be connected to the CDI Interface.
- The use of the 79T71/79T72 is only permitted for Zone 1 (EPL Gb), Zone 2 (EPL Gc) and Class I, Division 2 applications.
- Final acceptance of this equipment when installed is subject to the jurisdiction of the local inspection authority.

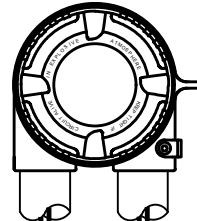
Installation Notes 79T71, 79T72

- 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.
- Stating that only simple apparatus should be terminated to the sensor connection.
- Simple apparatus is defined as a device that will neither generate nor store more than 1.2V, 0.1A, 0.25mW or 20µJ. Examples are Thermocouples or RTDs.

Equipment Rating (this does not supersede hazardous locations rating)

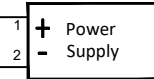
1. Pollution degree 2
2. Installation category: DC supplied
3. Electrical supply 10 - 36V dc
4. IP20
5. Temperature -40°C up to +85°C

79 Enclosure



CSA approved Associated Apparatus or Associated Nonincendive Field Wiring Apparatus

e.g. RTD or TC Sensor (Simple Apparatus) integral or remote mounted



Temperature range

Division 2, EPL Gb - with Display D10 Ta: -40 To +55/70/85°C T6/T5/T4
 Division 2, EPL Gb - without Display D10 Ta: -40 To +55/70/85°C T6/T5/T4

Sensor circuits (Terminals 3...6)

U_o or V_{oc} or $V_t = 4.3$ V I_o or $I_{sc} = 4.8$ mA $P_o = 5.2$ mW
 Group A, B resp. IIC Co or Ca = 100 µF L_o or $L_a = 10$ mH
 Group C, D resp. IIB Co or Ca = 10 µF L_o or $L_a = 1$ H
 Group C, D resp. IIA Co or Ca = 10 µF L_o or $L_a = 1$ H

Applicable requirements see CSA certificate 80139060

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