

Edge of working parts | Geometrical tolerancing

ISO 2768-mH-E

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ISO 13715

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Refer to protection notice

ISO 16016

Installation Notes TMT181, TMT187, TMT188

- CSA certified Apparatus must be installed in accordance with manufacturer's instructions.
- The installation must be in accordance with the Canadian Electrical Code.
- Use supply wires suitable for 5°C above surroundings.
- Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.
- The configuration of the transmitter TMT 181 is only permitted in nonhazardous locations.
- The voltage of the "tools" used for configuration should not exceed Um = 30 V. This can be achieved e.g. by a battery powered laptop. An approved adapter with barrier has to be used for configuration using a PC with mains connection (Um < 253V).
- Terminals 3 to 6 provide Intrinsically Safe and Nonincendive circuits to RTD, Thermocouples and other passive resistive devices.
- Only simple apparatus should be terminated to the sensor connection.
 Simple apparatus are components as defined by the CEC (1.2 V, 0.1 A, 0.25 mW or 20 μJ).
- Warning: Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.

INTRINSICALLY SAFE

Class I / Div. 1 / Groups ABCD

- CSA certified Associated Apparatus must meet the following parameters:

 $U_0 \le U_1$ $U_0 \le U_1$ $U_0 \le U_1$ $U_0 \le U_1$ $U_0 \le U_2$ U_0

Transmitter entity parameters are as follows: Ui or Vmax \leq 30 V DC Ci = 0

Pi ≤ 750 W

NONINCENDIVE

Class I / Div. 2 / Groups ABCD

- Intrinsic safety barrier not required. Vmax ≤ 35 V DC.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.
- Nonincendive field wiring installation

The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when $Voc \le Vmax$, $Ca \ge Ci + Ccable$, $La \ge Li + Lcable$. Transmitter Nonincendive Field Wiring parameters are as follows:

Ui or Vmax ≤ 30 V DC

Ci = 0

Li = 0

Ii or Imax = see following note below

For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

Functional ratings

These ratings do not supersede Hazardous Location values

Unom \leq 35 DC Inom \leq 4-20 mA

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