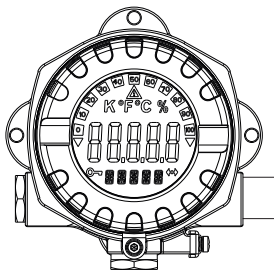
Endress+Hauser

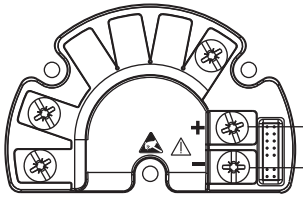
Hazardous (Classified) Location
Class I / Division 1, 2 / Groups ABCD
Class II, III, Zone 21, IIIC
Class II / Division 1 / Groups EFG
Class III / Division 1

Nonhazardous Locations



Power supply

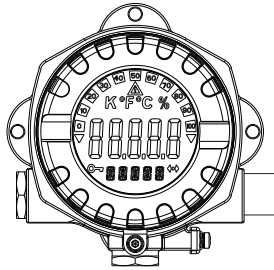
See also installation notes for using power supply



PROFIBUS®/
FOUNDATION Fieldbus™

Hazardous (Classified) Location
Class I, Zone 2, IIC
Class I / Division 2 / Groups ABCD

Nonhazardous Locations



CSA approved Associated Apparatus suitable for entity or FNICO concept or Associated Nonincendive Field Wiring Apparatus

See also installation notes for using power supply

Temperature range

T4	-40°C ... +80°C
T5	-40°C ... +70°C
T6	-40°C ... +55°C

Installation Notes RID14

- CSA certified apparatus must be installed in accordance with manufacturer's instructions.
- Installation must be in accordance with Canadian Electrical Code.
- Use supply wires suitable for 5°C above surroundings.
- 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 Á MOINS QUE LA ZONE SOIT PAS À RISQUES

DUST IGNITION PROOF
Class II, Div. 1, Groups E, F & G, Class III, Div. 1

EXPLOSION PROOF
Class I, Division 1, Groups A, B, C, D; T6...T4

- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.
- Seal all conduits within 18 inches of enclosure.
- All Conduits must be assembled with a minimum of five full threads engagement.
- Field display must be CSA approved for appropriate area classification.
- Supply circuit (Terminals + and -)
  Vmax ≤ 35 V DC
  Pmax = 3 W

- Warning: Substitution of components may impair suitability for Class I, Division 2.
  Avertissement : La substitution de composants peut compromettre la sécurité intrinsèque
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
  Avertissement : Risque d'explosion - Ne pas débrancher tant que le circuit est sous tension, à moins qu'il s'agisse d'un emplacement non dangereux.

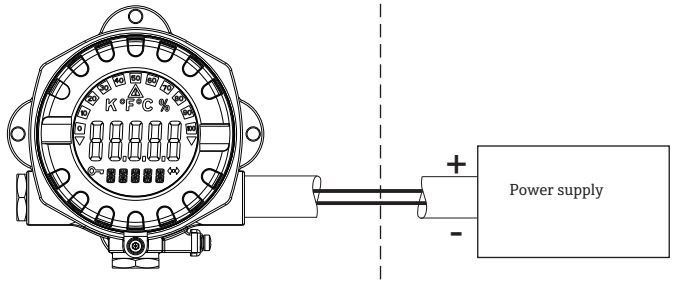
NONINCENDIVE
Ex ic IIC Gc T6...T4 Gc
Class I, Division 2, Groups A, B, C, D; T6...T4 (Non Incendive Field Wiring (NIFW))

- Intrinsic safety barrier is required. Vmax ≤ 35 V DC.
- 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 ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.
  Field display Nonincendive Field Wiring parameters are as follows:
  Ui or Vmax ≤ 35 V DC Ci = ≤ 5 nF Li ≤ 10 µF
  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.
- The field display is suitable to be installed according the FNICO concept.

NOTE
When the product is installed as a FNICO installation use drawing 12 08 00 112.

Hazardous (Classified) Location
Class I, Zone 2, IIC
Class I / Division 2 / Groups ABCD

Nonhazardous Locations



INCREASED SAFETY
Ex ec IIC T6...T4 Gc
Class I, Div. 2, Groups ABCD; T6...T4

- Intrinsic safety barrier is not required. Vmax ≤ 35 V DC.
- 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 Á MOINS QUE LA ZONE SOIT PAS À RISQUES.

- Terminal specification:

	Torque*	Cable version	Cable cross-section
Screw terminals	max. 1 Nm	Solid or flexible	= 2.5 mm² (12 AWG) plus ferrules

*Do not overtighten the screw terminals, as this could damage the field display.

Functional ratings

These ratings do not supersede Hazardous Location values
Unom ≤ 35 DC Inom ≤ 4 to 20 mA

CONDITIONS OF ACCEPTABILITY

- For the use as an equipment in type of protection increased safety, and for Zone 2 (EPL Gc), and Class I, Division 2 applications, the field display RID14 shall not be connected or disconnected unless the area is known to be non-hazardous.
- If the field display RID14 was used in a Zone 2 (EPL Gc) or Class I, Division 2 application it is not allowed to use it in Zone 1 (EPL Gb), Zone 0 (EPL Ga) or Class I, Division 1 applications in the future.
- Final acceptance of this equipment when installed is subject to the jurisdiction of the local inspection authority.
- The end user shall ensure appropriate earthing of the metallic field housing upon installation.
- The equipment shall only be powered by limited energy circuits such as Class 2 SELV circuits.

Temperature range

T4 -40°C ... +80°C
T5 -40°C ... +70°C
T6 -40°C ... +55°C