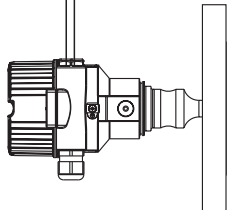


Hazardous location

Class I, Div. 1, 2, Groups A, B, C, D
Class I, Zone 0, IIC
AEx ia IIC T6
Class II, Div. 1, 2, Groups E, F, G
Class III



Entity parameter:

Vmax = 30 VDC
Imax = 300 mA
Pmax = 1 W
Ci ≤ 10 nF
Li = 0

Areas of application

The compact instruments are suitable for use in areas subject to explosion caused by gases, vapours or mists.

Non hazardous location

Intrinsically safe installation
Intrinsically safe (entity), Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G
Hazardous Location Installation

- Control room equipment may not use or generate over 250 V.
- Use Factory Mutual Entity-approved intrinsic safety barrier with Voc or Vt ≤ Vmax, Isc or It ≤ Imax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.
Barrier must be incapable of delivering more than 1 Watt to a matched load.
Transmitter entity parameters are as follows:
Vmax = 30 VDC
Imax = 300 mA
Ci ≤ 10 nF
Li = 0
For T-code see table
- Installation should be in accordance with ANSI/ISA RP 12.06.01. Installation of intrinsically safe systems for hazardous (classified) locations and the National Electrical Code (ANSI/NFPA 70).
- Warning: Substitution of Components may impair intrinsic safety.
- Intrinsic safety barrier manufacturer's installation drawing must be followed, when installing this equipment: The configuration of the intrinsic safety barrier(s) must be FMRC approved.
- Use supply wires suitable for 5°C above surrounding ambient.

Table: Permissible ambient temperature and temperature code:

Temperature code	Permissible ambient temperature, electronics compartment
T6	–40...40°C
T4	–40...70°C

option for Ta min: –50°C

This device is suitable to be installed in accordance with the wiring methods of Division 1/Zone 0 resp. Zone 20 for intrinsic safety (as defined above) and for Division 1/Zone 1 for explosion proof protection.

For installations in accordance with the requirements of explosion proof protection the device is suitable for:

Explosion proof for Class I, Div. 1, Groups A, B, C, D
Conduit seal is not required!

Max. supply voltage: 45 VDC
P ≤ 1.1 W

Ambient temperature range: –40°C...+75°C (optional Ta min –50°C)
Warning: Conductors shall be rated 10°C above ambient.

Warning: Keep cover tight, while circuit is alive.
Warning: Changing the type of protection after first installation may impair the explosion protection.

