

80533D
05-2021

Complementary documentation
SAFETY NOTE IX

DESCRIPTION

Melt IMPACT pressure transmitters are MEMS (SOI) technology.

The transmitters are designed and built according to European standards
EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-26:2015

The protection mode is:

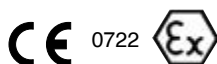
II 1G, Ex ia IIC T6, T5, T4 Ga, room temperature -20...+60°C / +75°C / +85°C;

II 1D Ex ia IIIC T₂₀₀85°C, T₂₀₀100°C, T₂₀₀110°C Da IP65, room temperature -20...+60°C / +75°C / +85°C

ELECTRICAL CHARACTERISTICS

| | |
|-------------------------------------|-----------------------------|
| Maximum voltage U _i : | 30V |
| Maximum current I _i : | 100mA |
| Maximum power P _i : | 0,75W |
| Maximum capacity C _i : | 46nF |
| Maximum inductance L _i : | 1,04mH |
| Room temperature: | -20...+60°C / +75°C / +85°C |

MARKING



0722

II 1 GD Ex ia IIC T6, T5, T4 Ga
Ex ia T₂₀₀85°C, T₂₀₀100°C, T₂₀₀110°C Da IP65

0722 = number of Notified Body for supervision ATEX (CESI)

II 1 = group II (surfaces), category 1

GD = explosive atmosphere with presence of gases, fumes or mists, dust

Ex ia IIC T6/T5/T4 Ga = protection mode, gas, temperature class, EPL -20...+60°C / +75°C / +85°C

Ex ia IIIC T₂₀₀85°C / T₂₀₀100°C / T₂₀₀110°C Da IP65 = protection mode, dust, max sur. temp., EPL -20...+60°C / +75°C / +85°C

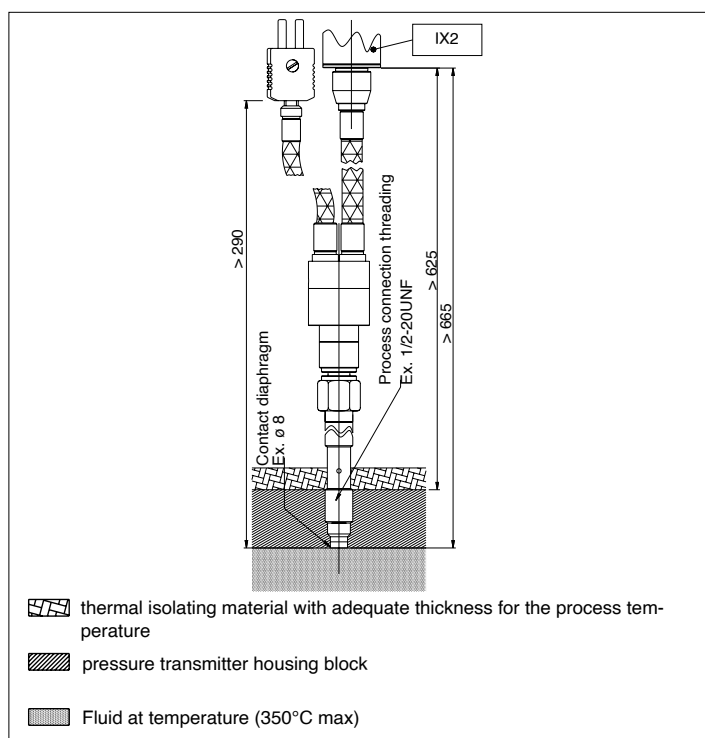
Correspondence between hazardous areas and categories, EPL

| Substances | | Categorie Directive 2014/34/EU | EPL Equipment |
|-----------------------|---------|-----------------------------------|------------------|
| Gases, fumes or mists | Zone 0 | 1G | Ga |
| Gases, fumes or mists | Zone 1 | 2G or 1G | Gb or Ga |
| Gases, fumes or mists | Zone 2 | 3G, 2G or 1G | Gc, Gb or Ga |
| Dust | Zone 20 | 1D | Da |
| Dust | Zone 21 | 2D or 1D | Db or Da |
| Dust | Zone 22 | 3D, 2D or 1D | Dc, Db or Da |

SAFETY INSTRUCTIONS FOR INSATALLATIONS IN DANGER ZONES

The IMPACT IX series Pressure transmitter must be installed and serviced in accordance with the system and maintenance standards for environments classified against the risk of explosion due to the presence of gas (eexample: EN 60079-14, EN 60079-17 or other national regulations/standards) and dust. The IMPACT IX series Pressure transmitter must be connected to associated devices (galvanic isolation barriers) certified [Ex ia] IIC having the following characteristics:

| | |
|-----------------------|----------------|
| maximum voltage U_o | $\leq 30V$; |
| maximum current I_o | $\leq 100mA$; |
| maximum power P_o | $\leq 0,75W$ |

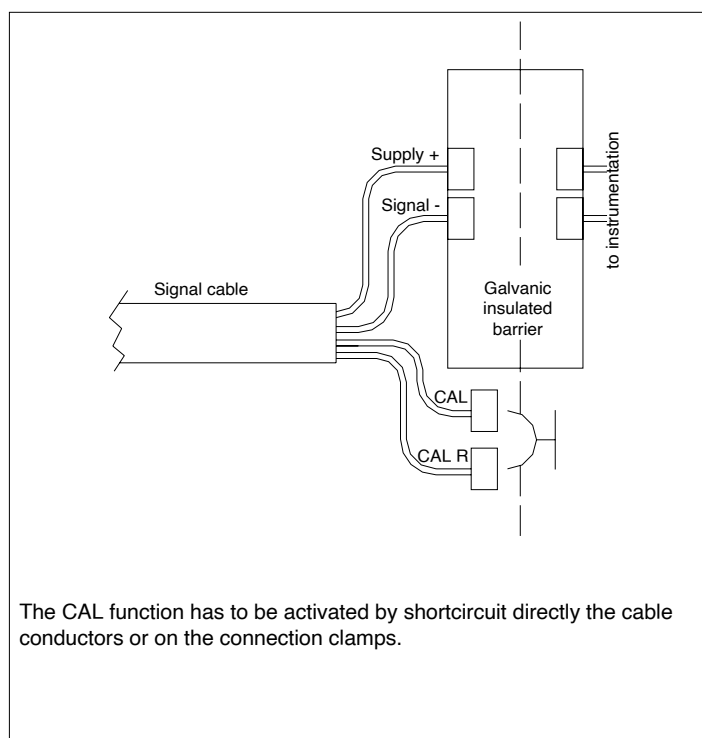


MOUNTING INSTRUCTIONS FOR INSTALLATIONS IN DANGEROUS ZONES

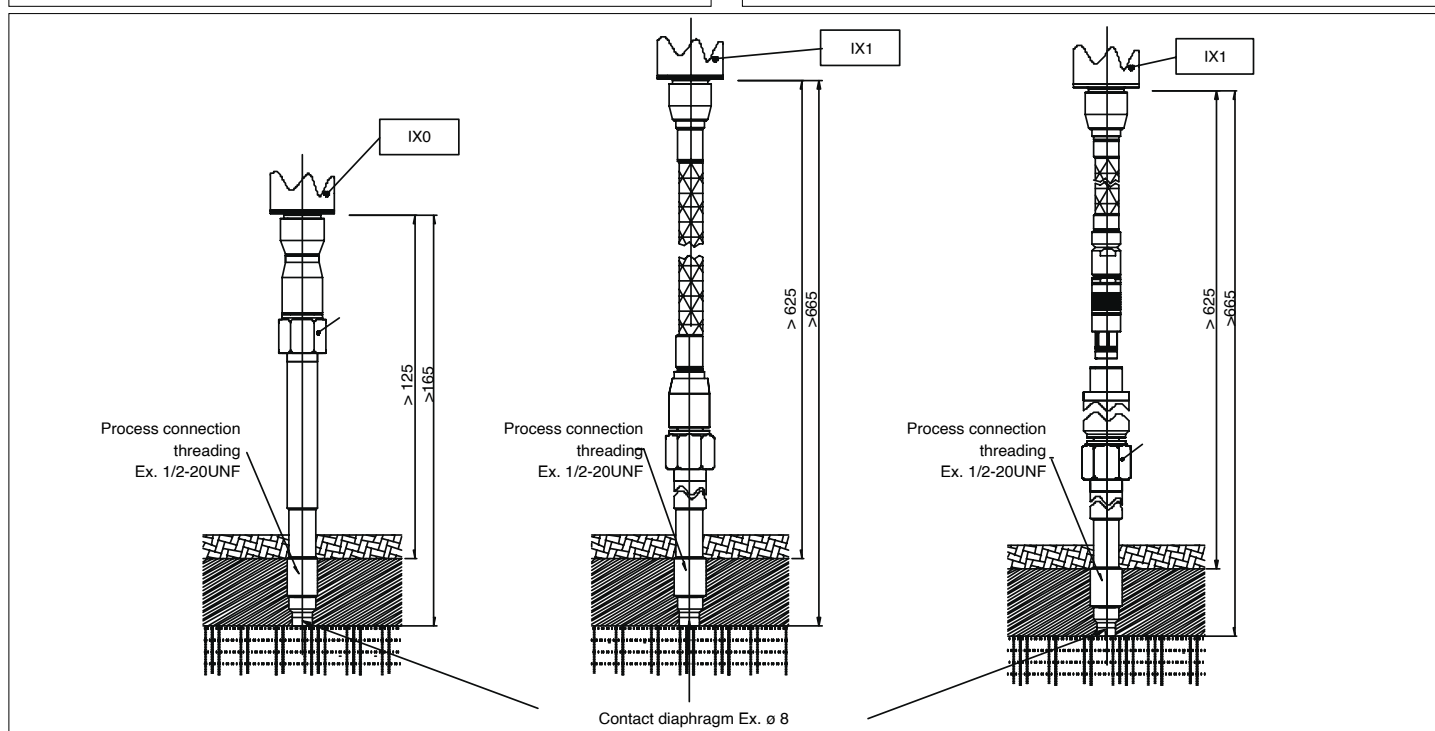
Based on the application, the IMPACT IX series pressure transmitter have to be installed according to the instructions shown in the following figures. For models with temperature measurement (IX2) the thermocouple circuit must be powered by means of safety barriers with galvanic separation with 30V maximum voltage.

For model with temperature measurement IMPACT IX series must be powered by means of safety barriers with galvanic separation with 30V maximum voltage.

The AUTOZERO function has to be activated exclusively by the "IMPACT" magnet pen.



The CAL function has to be activated by shortcircuit directly the cable conductors or on the connection clamps.



GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice.

GEFRAN

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