**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

<i>Substances</i>		<i>Categorie Directive 2014/34/EU</i>	<i>EPL Equipment</i>
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 INSTALLATIONS 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 (example: 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:

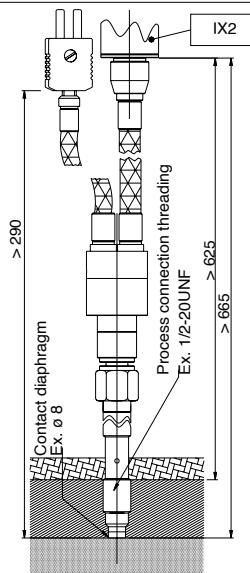
maximum voltage U_o $\leq 30V$;
maximum current I_o $\leq 100mA$;
maximum power P_o $\leq 0,75W$

MOUNTING INSTRUCTIONS FOR INSTALLATIONS IN DANGEROUS ZONES

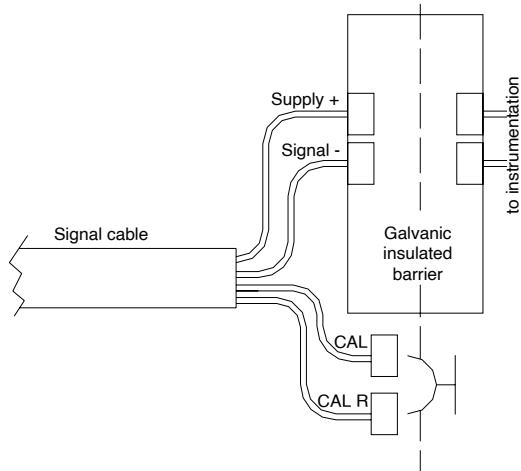
Based on the application, the IMPACT IX series pressure transmitter have to be installed according to the instructions shown in the following figures. For models with temperature measurement (IX2) the thermocouple circuit must be powered by means of safety barriers with galvanic separation with 30V maximum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

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

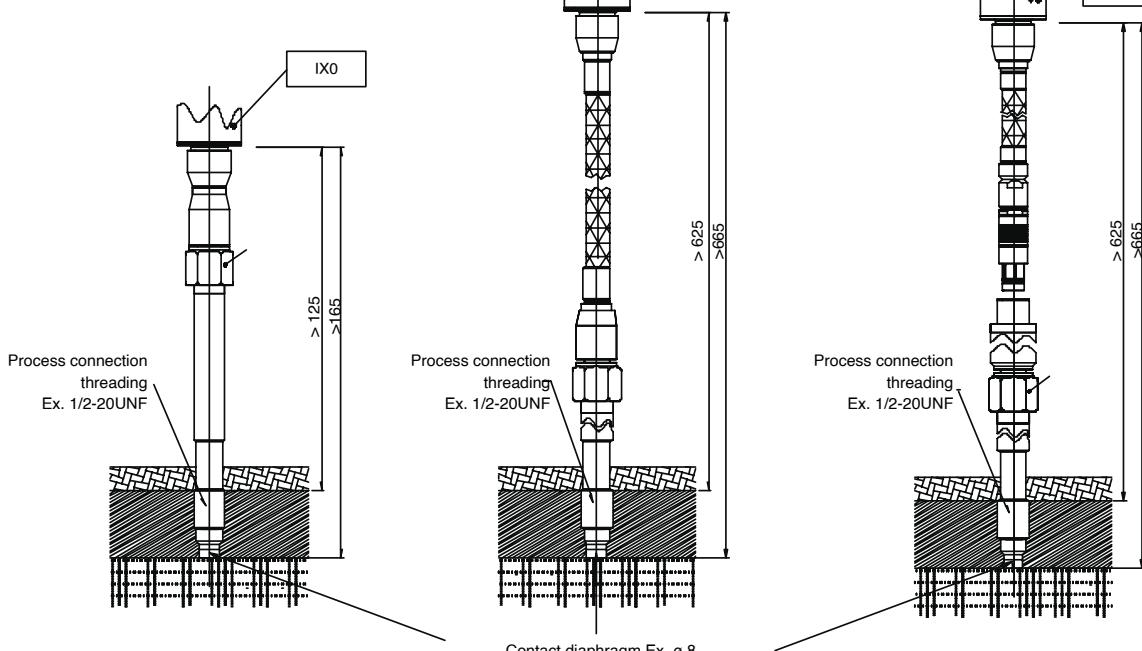
The AUTOZERO function has to be activated exclusively by the "IMPACT" magnet pen.



- thermal isolating material with adequate thickness for the process temperature
- pressure transmitter housing block
- Fluid at temperature (350°C max)



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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