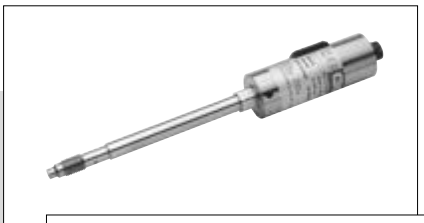
GEFRAN

MELT PRESSURE TRANSMITTERS FOR APPLICATIONS IN POTENTIALLY EXPLOSIVE ATMOSPHERES

CE

80530C
06-2021

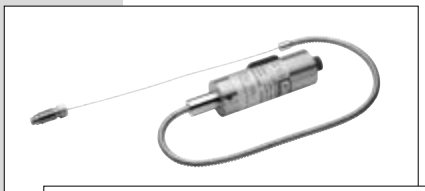
Complementary documentation
SAFETY NOTE MX/WX



Ex ia IIC T4 Ga

Ex ia IIC T4, T5 Ga

Ex ia IIC T4, T5 Ga



Ex ia IIC T4, T5 Ga

DESCRIPTION

Melt pressure transmitters are mercury-filled (MX series) or oil-filled (WX series).

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 Ex ia IIC T5, T4, Ga, room temperature
-20°C/+70°C(T4)
-20°C/+60°C(T4)
-20°C/+55°C(T5)

ELECTRICAL CHARACTERISTICS

Maximum voltage Ui:	30V
Maximum current Li:	100mA
Maximum power Pi:	0,75W
Maximum capacity Ci:	26nF
Maximum inductance Li:	0,23mH
Room temperature:	-20...+55°C / +60°C / +70°C

MARKING

CE **0 7 2 2** Ex **II 1 G Ex ia IIC T4, T5 Ga**
Tamb: -20°C/+70°C (T4)
-20°C/+60°C (T4);
-20°C/+55°C (T5)

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

II 1 = group II (surfaces), category 1

G = explosive atmosphere with presence of gases, fumes or mists

Ex ia IIC T4/T5 = protection mode, gas group, temperature class

Ga = EPL (Gas)

Tamb = Ambient temperature

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

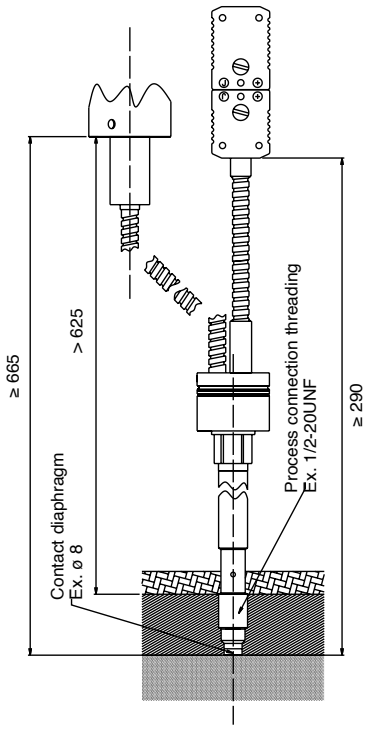
Products of MX series are designed and available in compliance with Directive 2011/65/EU (RoHS II) only for large-scale stationary installation or industrial tools, or for B-to-B laboratory equipments for R&D purposes.

INSTRUCTIONS DE SECURITE POUR LES INSTALLATIONS DANS DES ZONES DANGEREUSES

The Melt 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).

The Melt pressure transmitter must be connected to associated devices (galvanic isolation barriers) certified [Ex ia] IIC having the following characteristics:
maximum voltage Uo ≤ 30V;
maximum current Io ≤ 100mA;
maximum power Po ≤ 0,75W

T4 : Tamb: -20°C +70°C
T5 : Tamb: -20°C +55°C



INSTRUCTIONS DE SECURITE POUR LES INSTALLATIONS DANS DES ZONES DANGEREUSES

Based on the application, the Melt pressure transmitters have to be installed according to the instructions shown in the following figures.

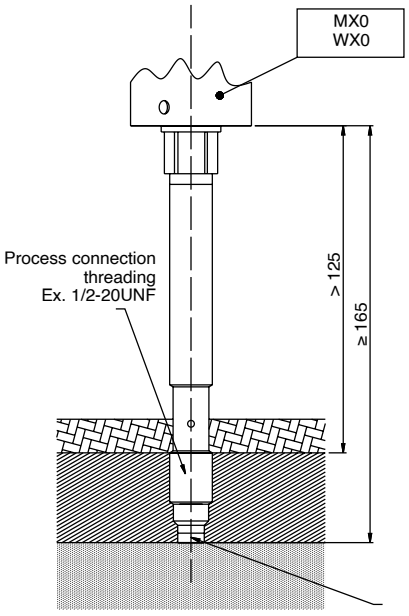
For models with temperature measurement (MX2 and WX2), the thermocouple circuit must be powered by means of safety barriers with galvanic separation with 30V maximum voltage.

thermal isolating material with adequate thickness for the process temperature

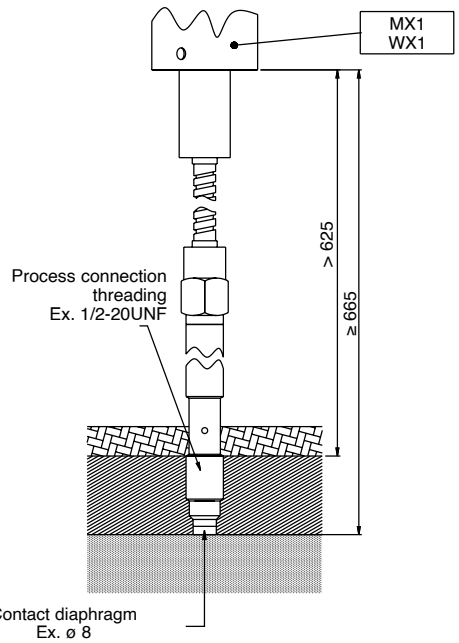
pressure transmitter housing block

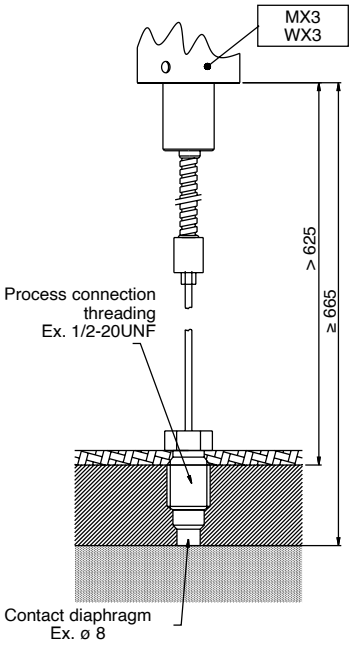
fluid at temperature (400°C for series MX; 315°C for series WX)

T4 : Tamb: -20°C +60°C



T4 : Tamb: -20°C +70°C
T5 : Tamb: -20°C +55°C





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

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