

Il costruttore  
The manufacturer  
Le fabricant  
Der Hersteller

**Gefran SPA**  
**Via Sebina, 74**  
**25050 – Provaglio d'Iseo (BS) – Italy**

Dichiara sotto la sua esclusiva responsabilità che i prodotti GEFRAN riportanti la marcatura "CE":  
Declares on his own responsibility that GEFRAN products with the "CE" mark, series:  
Déclare sous sa responsabilité que les produits GEFRAN avec le marquage "CE":  
Erklärt hiermit, dass die GEFRAN - Produkte mit "CE" - Kennzeichnung:

**Rectilinear displacement transducers, series  
PMA**

**Special execution 339**

Con estensione a tutti i modelli descritti dalla seguente sigla di ordinazione:  
With extension to all the models described from the following order code:  
Avec l'extension à tous les modèles décrits dans le code de commande suivante:  
Mit der Erweiterung auf alle Modelle in der folgenden Reihenfolge Code beschrieben:

**PMA – A – B – C – D**

ORDER CODE CONFIGURATION	
Field "A"	12
Field "B"	F
Field "C"	Model (4 digits)
Field "D"	XXX if present for customised versions

- sono in accordo con le Direttive Comunitarie e con la relativa legislazione nazionale di recepimento
- are manufactured according with the Community Directives and the related National Legislation of conception
- ont été fabriqué selon les Directives Communautaires et avec la relative législation nationale de conception
- mit den im folgenden genannten Richtlinien übereinstimmen

α) 2011/65/EU and its amendments - Restriction of the use of certain hazardous substances (RoHS)

- e che sono state applicate le seguenti (parti/articoli di) norme armonizzate
- and that the following (parts/articles of) harmonized standards and regulation have been applied
- et que les normes (partes/articles de) harmonizée suivantes ont été appliqués
- die folgenden Normen Anwendung finden

α) EN 50581:2012 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

These devices are "SIMPLE APPARATUS" according to the EN 60079-11:2012 Standard (Electrical apparatus for potentially explosive atmospheres - Intrinsic safety "i"), clause 5.7.a.

The above mentioned products are composed of a resistive track of different electrical stroke and lengths, glued on a printed circuit board; the electrical signal is supplied to the external circuits through contact wipers.

The linear displacement transducers guarantee an insulation of 500 Vac x 60 seconds from ground; their own capacity and inductance are negligible.

The foreseen maximum characteristics of power supply are the following:

$$U_i = 15 \text{ V} - I_i = 20 \text{ mA} - P_i = 75 \text{ mW}$$

Temperature class / maximum superficial temperature:

**T6 / T85°C (Ambient temperature -20°C / + 40°C)**

**T5 / T100°C (Ambient temperature -20°C / + 60°C)**

**T4 / T135°C (Ambient temperature -20°C / + 80°C)**

These devices do not contain own ignition sources which may cause an explosion; they can therefore be used in hazardous location with presence of gas (group IIA, IIB, IIC) and combustible dust (group IIIA, IIIB, IIIC).

They must be supplied by associated apparatus [Ex ia] (diode safety barriers with galvanic insulation) which respect the following limits

$$U_o = 15 \text{ V} - I_o = 20 \text{ mA} - P_o = 75 \text{ mW}$$

Warning Electrostatic Hazard: clean with wet clothes or antistatic product.

CE Marking date: 01.10.2020

Date:	BU Manager Marcello Perini 
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