## **GEFRAN**

## **PZ67-A**

# RECTILINEAR DISPLACEMENT TRANSDUCER WITH IP67 PROTECTION LEVEL



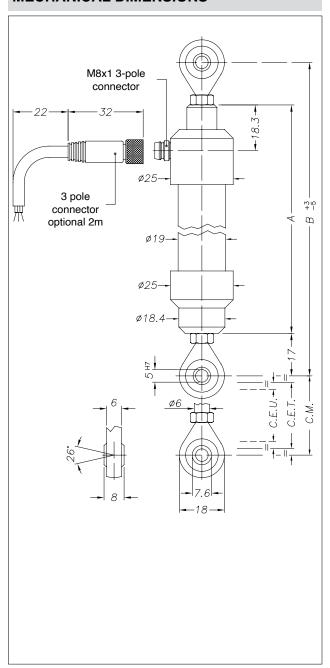
#### Main features

- This transducer is designed to guarantee a high protection level (IP67) in applications under harsh conditions and outdoors, where it may be necessary to work in the direct presence of dust, dirt, or liquids (not in prolonged immersion)
- Its high protection level and very small size make the PZ67-A unique in terms of reliability and flexible installation
- It is ideal for glass cutting and washing machines or for honers and sanders if there is direct exposure to liquids or even just steam
- Indicated for test and bench equipment, especially if outdoors

#### **TECHNICAL DATA**

Useful electrical stroke C.E.U	from 10 to 300 mm (for intermediate strokes see table "Electrical / Mechanical Data")
Independent linearity (within C.E.U.)	see table
Resolution	infinite
Repeatability	0.01mm
Electrical connection	M8x1 3-pole connector
Protection level	IP67 (use M8x1 3-pole female connector with IP67 or higher protection level)
Life (NOT used in prolonged immersion)	> 25x10°m strokes, or > 100x10° maneuvers, whichever is less (within C.E.U.)
Displacement speed	Standard ≤ 3 m/s max ≤ 5 m/s
Displacement force	≤ 20N
Vibrations	52000Hz, Amax =0,75 mm amax. = 20 g
Shock	50 g, 11ms.
Acceleration	200 m/s² max (20g)
Tolerance on resistance	± 20%
Recommended cursor current	< 0,1 μΑ
Maximum cursor current	10mA
Maximum applicable voltage	see table
Electric isolation	>100MΩ a 500V=, 1bar, 2s
Dielectric strength	< 100 <sub>µ</sub> A a 500V~ ,50Hz, 2s, 1bar
Dissipation at 40°C (0W a 120°C)	3W
Actual Temperature Coefficient of the output voltage	≤ 5ppm/°C tipico
Working temperature	-30+100°C
Storage temperature	-50+120°C
Case material	Anodised aluminium
Control rod material	C45 Chrome steel 20mm
Mounting	Self-aligning joints with adjustable distance between centers

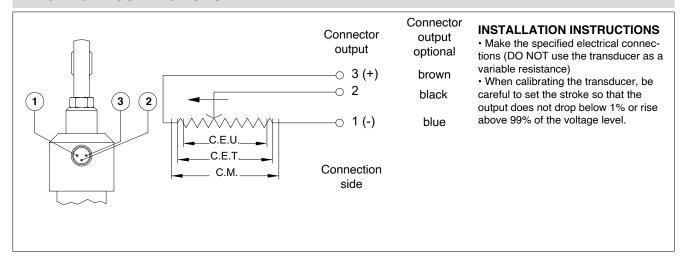
#### **MECHANICAL DIMENSIONS**



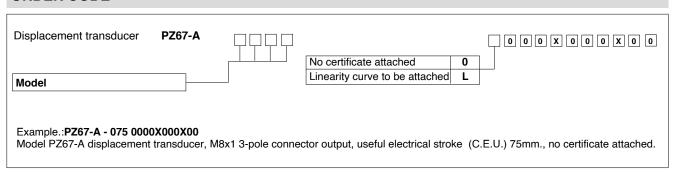
#### **MECHANICAL / ELECTRICAL DATA** MODEL 10 25 50 75 100 125 150 175 200 250 300 Useful electrical stroke (C.E.U.) +1 / -0 mm 10 25 50 75 100 125 150 175 200 250 300 Theoretical electrical stroke (C.E.T.) ± 1 mm C.E.U. +1 Resistance (sulla C.E.T.) kΩ 3 6 7 8 10 1 1 2 4 5 12 Independent linearity ± % 0,5 0,2 0,1 0,1 0,1 0,05 0,05 0,05 0,05 0,05 0,05 (within C.E.U.) Dissipation at 40°C (0W at 120°C) W 8 0,3 2,6 8,0 1,6 ٧ Maximum applicable voltage 60 15 20 40 Mechanical stroke (C.M.) mm C.E.U. +5 Case length (A) mm 253,5 113,5 128,5 153,5 178,5 203,5 228,5 278,5 303,5 353,5 403,5 Recommended distance between mm 148 163 188 213 238 263 288 313 338 388 438 brackets (B)

Note: It is recommended to keep the sliding parts lubrificated, with a lubricant general purpose least every 6 months.

#### **ELECTRICAL CONNECTIONS**



#### **ORDER CODE**



### **ACCESSORIES** (on request)

Code
Female connector + 2 meter cable in wired PVC
CAV010