GEFRAN PZ67-S *RECTILINEAR DISPLACEMENT TRANSDUCER WITH IP67 PROTECTION LEVEL*



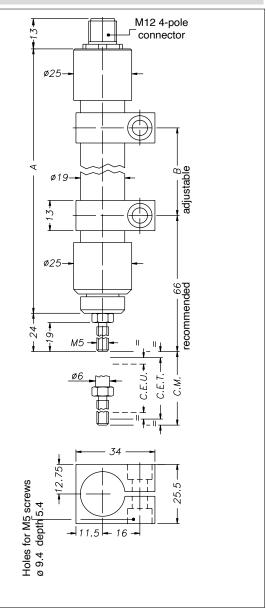
TECHNICAL DATA

Useful electrical stroke C.E.U	from 25 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	M12 4-pole connector
Protection level	IP67 (use M12 4-pole female connector with IP67 or higher protection level)
Life (NOT used in prolonged immersion)	> 25x10 ^e m strokes, or > 100x10 ^e maneuvers, whichever is less (within C.E.U.)
Displacement speed	Standard \leq 3 m/s max \leq 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 µA
Maximum cursor current	10mA
Maximum applicable voltage	see table
Electric isolation	>100MΩ a 500V=, 1bar, 2s
Dielectric strength	< 100 _µ 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	Adjustable-axis brackets

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-S 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

MECHANICAL DIMENSIONS

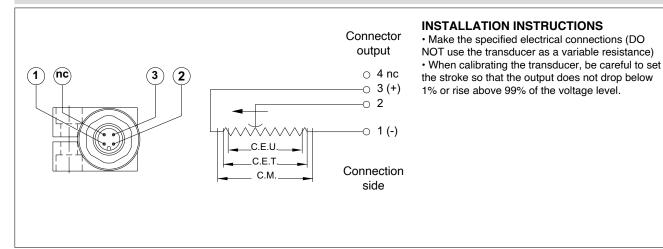


Important: all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor Ic \leq 0.1 μ A

MODEL		25	50	75	100	125	150	175	200	250	300
Useful electrical stroke (C.E.U.) +1 / -0	mm	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	1	2	3	4	5	6	7	8	10	12
Independent linearity (within C.E.U.)	± %	0.2	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05
Dissipation at 40°C (0W at 120°C)	w	0.8	1.6	2,6 8							
Maximum applicable voltage	V	20 40 60									
Mechanical stroke (C.M.)	mm	C.E.U. +5									
Case length (A)	mm	106.5	131.5	156.5	181.5	206.5	231.5	256.5	281.5	331.5	381.5
Recommended distance between brackets (B)	mm	21	46	71	96	121	146	171	196	246	296

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

ELECTRICAL CONNECTIONS



ORDER CODE

Displacement transducer	PZ67-S	\Box			0 0 0 X 0 0 0 X 0 0
			No certificate attached	0	
Model			Linearity curve to be attached	L	

Example.: PZ67-S - 075 0000X000X00 Model PZ67-S displacement transducer, M12 4-pole connector output, useful electrical stroke (C.E.U.) 75mm., no certificate attached.

ACCESSORIES

STANDARD	Code
PZ mounting kit, 2 brackets	STA075
ON REQUEST M12 4-pole axial female connector, IP67-IEC48B clamp for ø6-ø8mm cable M12 4-pole 90° radial female connector, IP67	Code CON293 CON050

