PZ12 RECTILINEAR DISPLACEMENT TRANSDUCER WITH CYLINDRICAL CASE



Principal characteristics

- The 1/2" cylindrical housing, plus the option of all fastening systems (brackets, joints or flange), makes the PZ12 series highly versatile for a wide range of applications.
- The optimized mechanical structure makes the product suitable for developing various special executions (contact Gefran customer service for details).
- Installation is simplified by the lack of electrical signal variation at output outside theoretical electrical stroke.
- Ideal for wood and glass working and finishing machines and for car test benches.

TECHNICAL DATA

GEFRAN

Useful electrical stroke (C.E.U.)	25/50/75/100/125/150/200/250				
Resolution	infinie				
Protection	IP60				
Independent linearity (within C.E.U.	see table				
Displacement speed	< = 10 m/s				
Displacement force	<= 0.5N				
Life	>25x10 ^s m strokes,or 100x10 ^s ope- rations, whichever is less (within C.E.U.)				
Vibrations	52000Hz, Amax = 0,75 mm amax. = 20 g				
Shock	50 g, 11ms.				
Tolerance on resistance	± 20%				
Recommended cursor current	< 0,1 µA				
Maximum cursor current	10mA				
Max. applicable voltage	see table				
Electrical isolation	>100MΩ a 500V=, 1bar, 2s				
Dielectric strength	< 100 µA a 500V~, 50Hz, 2s, 1bar				
Dissipation at 40°C (0W at 120°C)	see table				
Actual Temperature Coefficient of the output voltage	< 1,5ppm/°C				
Working temperature	-30+100°C				
Storage temperature	-50+120°C				
Case material	Anodised aluminium Nylon 66 G 25				
Control rod material	Stainless steel AISI 303				
Fixing	Brackets, selfaligning ball-joints or flange				

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 lc \leq 0.1 μ A.

MECHANICAL / ELECTRICAL DATA

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MODEL			25	50	75	100	125	150	200	250
Useful electrical stroke (C.E.U.) + 1 / -0		mm	25	50	75	100	125	150	200	250
Theoretical electrical stroke (C.E.T.) ± 1		mm	C.E.U. +1							
Resistance (C.E.T.)		kΩ	1	2	3	4	5	6	8	6
Independent linearity (within C.E.U.)		± %	0.2	0.1	0.1	0.1	0.05	0.05	0.05	0.05
Dissipation at 40°C (0W at 120°C)		W	0.5	1	1.5	2	2.5	3	3	3
Maximum applicable voltage		V	20	40	60					
Mechanical stroke (C.M.)			C.E.U. +5							
Case length (A)	mod. PZ12 - S	mm	74.5	99.5	124.5	149.5	174.5	199.5	249.5	299.5
	mod. PZ12 - A	mm	102	127	152	177	202	227	277	327
	mod. PZ12 - F	mm	74.5	99.5	124.5	149.5	174.5	199.5	249.5	299.5
Recommended distance between brackets (B)		mm	42	67	92	117	142	167	217	267
Minimum distance between ball-joints (C)		mm	153	178	203	228	253	278	328	378
Weight	mod. PZ12 - S	g	45	55	65	75	85	95	115	135
	mod. PZ12 - A	g	70	80	90	100	110	120	140	160
	mod. PZ12 - F	g	60	70	80	90	100	110	130	150

ELECTRICAL CONNECTIONS



INSTALLATION INSTRUCTIONS

· Respect the indicated electrical connections (DO NOT use the transducer as a variable resistance)

· When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise beyond 99% of the supply voltage.

Connection side

ORDER CODE



ACCESSORIES							
	Code						
Mounting brackets for PZ12-S (2 pieces included in the confection)	STA074						

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice

