GEFRAN

PZ12

RECTILINEAR DISPLACEMENT TRANSDUCER WITH CYLINDRICAL CASE



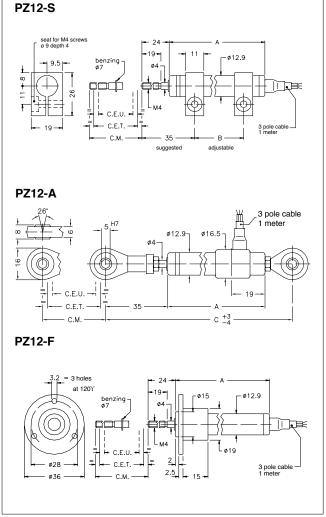
Principal characteristics

- 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

Useful electrical stroke (C.E.U.) 25/50/75/100/125/150/200/250 Resolution infinite Protection IP60 Independent linearity see table (within C.E.U.) Displacement speed < = 10 m/sDisplacement force < = 0.5NLife >25x106m strokes,or 100x106 operations, whichever is less (within C.E.U.) Vibrations 5...2000Hz, Amax =0,75 mm amax. = 20 g Shock 50 g, 11ms. ± 20% Tolerance on resistance Recommended cursor $< 0.1 \mu A$ current Maximum cursor current 10mA Max. applicable voltage see table Electrical isolation >100MΩ at 500V=, 1bar, 2s Dielectric strength < 100 μA at 500V~, 50Hz, 2s, 1bar Dissipation at 40°C see table (0W at 120°C) Actual Temperature Coefficient < 1,5ppm/°C of the output voltage -30...+100°C Working temperature 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

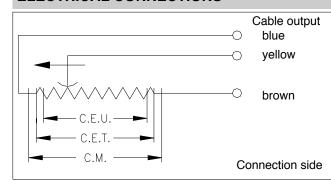


Important: all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor Ic $\leq 0.1 \, \mu A$.

MECHANICAL / ELECTRICAL DATA

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	sipation at 40°C (0W at 120°C)		0,5	1	1,5	2	2,5	3	3	3
Maximum applicable voltage		V	20	40	60					
Mechanical stroke (C.M	1.)	mm C.E.U. +5								
	mod. PZ12 - S	mm	74,5	99,5	124,5	149,5	174,5	199,5	249,5	299,5
Case length (A)	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
	mod. PZ12 - S	g	45	55	65	75	85	95	115	135
Weight	mod. PZ12 - A	g	70	80	90	100	110	120	140	160
	mod. PZ12 - F	g	60	70	80	90	100	110	130	150

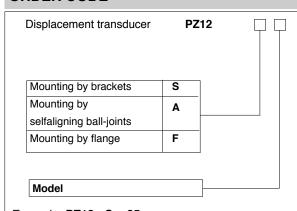
ELECTRICAL CONNECTIONS



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.

ORDER CODE



Example: **PZ12 - S - 25**Displacement transducer model PZ12, mounting by brackets, useful electrical stroke (C.E.U.) 25mm

No certificate	0	
attached		
Linearity curve to	L	
be attached		
Cable length 1 mt	0	
Cable length 2 mt	2	
Cable length 3 mt	3	
Other lengths		
on request		
Colour of plastic heads	0	
(green)		
Colour of plastic heads	N	
(black)		

Code

ACCESSORIES

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



25050 PROVAGLIO D'ISEO (BS) - ITALIA tel. 0309888.1 - fax. 0309839063 Internet: http://www.gefran.com