GEFRAN

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RECTILINEAR DISPLACEMENT TRANSDUCER



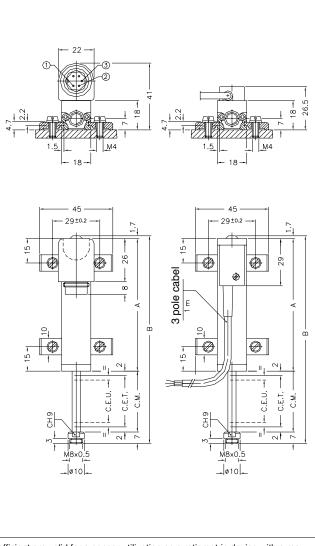
Principal characteristics

- The transducer's compactness makes it suitable for installation in small spaces and for detecting small shifts.
- The joint with up-take of slack and M4 threading provides greater tolerances in movement.
- Installation is simplified by the lack of electrical signal variation at output outside theoretical electrical stroke.
- Ideal for small mechanical devices, valves, and test tools and benches.

TECHNICAL DATA

Useful electrical stroke (C.E.U.)	25/50/75/100/125/150			
Resolution	Infinite			
Independent linearity (within C.E.U.)	see table			
Displacement speed	≤ 5 m/s			
Displacement force	≤ 1.2 N			
Life	>25x10 ⁶ m strokes,or 100x10 ⁶ operations, 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 mA			
Maximum cursor current	10mA			
Maximum applicable voltage	see table			
Electrical isolation	>100MΩ a 500V=, 1bar, 2s			
Dielectric strength	< 100 mA 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 with variable longitudinal axise			

MECHANICAL DIMENSIONS

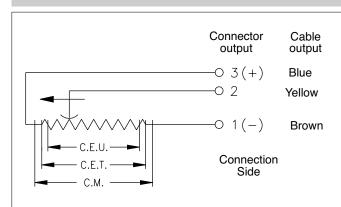


Important: all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor Ic \leq 0.1 μ A.

MECHANICAL / ELECTRICAL DATA

Model		25	50	75	100	125	150
Useful electrical stroke (C.E.U.) + 1 / -0	mm	25	50	75	100	125	150
Theoretical electrical stroke (C.E.T.) ± 1	mm	C.E.U. +1					
Resistance (on C.E.T.)	kΩ	1	5	5	5	5	5
Independent linearity (within C.E.U.)	± %	0.2	0.1	0.1	0.1	0.05	0.05
Dissipation at 40°C (0W at 120°C)	W	0.6	1.2	1.8	2.5	3	3.6
Maximum applicable voltage	V	25 60					
Mechanical stroke (C.M.)	mm	C.E.U. +5					
Case length (A)	mm	C.E.U. +49.5					
Total length (B)	mm	113.2	163.2	213.2	263.2	313.2	363.2

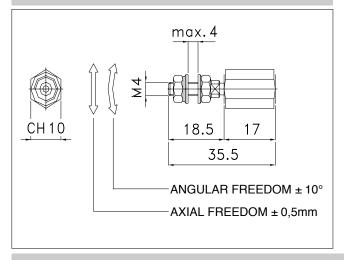
ELECTRICAL CONNECTIONS



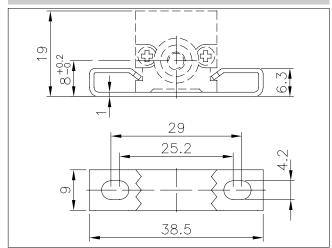
INSTALLATION INSTRUCTIONS

- 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.

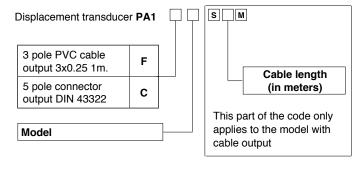
COUPLING JOINT

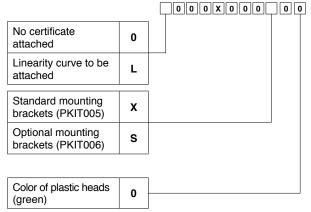


OPTIONAL FIXING KIT PKIT006



ORDER CODE





ACCESSORIES

STANDARD ACCESSORIES				
Fixing kit: 4 brackets, M4x10 screws, grower	PKIT005			
Fixing kit: 2 "wraparound" brackets (0000X000S00 configurator option)	PKIT006			
Coupling joint	PKIT020			
OPTIONAL ACCESSORIES				
5-pin axial female PCB connector DIN43322 IP40 clamp for wire ø4 - ø6 mm	CON011			
5-pin axial female PCB connector DIN43322 IP65 clamp PG7 for wire ø4 - ø6 mm	CON012			
5-pin 90° radial female PCB connector DIN43322 IP40 clamp for wire ø4 - ø6 mm	CON013			

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

