



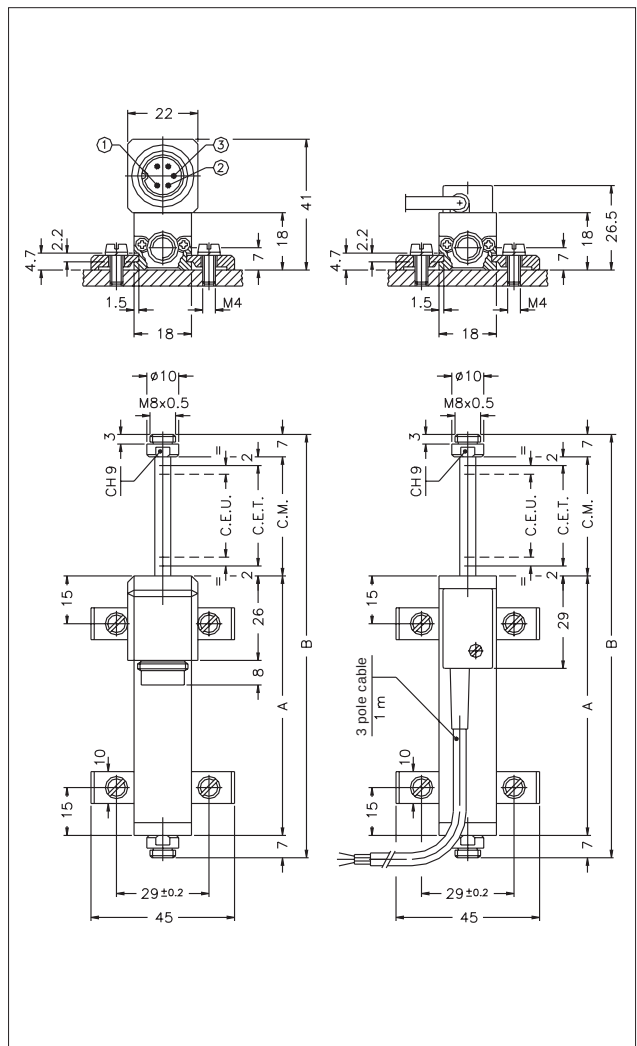
Principali caratteristiche

- 25 to 150 mm. stroke
- Mechanical linkage using joint with take up of play, M4 thread
- Independent linearity up to $\pm 0,05\%$
- Infinite resolution
- No variation of electrical signal outside theoretical electrical stroke
- Displacement speed up to 10 m/s
- Working temperature: $-30...+100^{\circ}\text{C}$
- Electrical connections:
PY1 F 3 wire 1m screened cable
PY1 C 5-pole connectors DIN43322
- Life duration: $> 100 \times 10^6$ operations (within C.E.U.)
- Double support of the control rod
- Grade of protection IP40

TECHNICAL DATA

Useful electrical stroke (C.E.U.)	25/50/75/100/150
Independent linearity (within C.E.U.)	see table
Displacement speed	≤ 10 m/s
Displacement force	$\leq 0.30\text{N}$
Vibrations	5...2000Hz, $A_{\text{max}} = 0,75$ mm $a_{\text{max}} = 20$ g
Shock	50 g, 11ms.
Tolerance on resistance	$\pm 20\%$
Recommended cursor current	$< 0,1 \mu\text{A}$
Maximum cursor current	10mA
Maximum applicable voltage	see table
Electrical isolation	$> 100\text{M}\Omega$ at 500V~, 1bar, 2s
Dielectric strength	$< 100 \mu\text{A}$ at 500V~, 50Hz, 2s, 1bar
Dissipation at 40°C (0W at 120°C)	see table
Temp. Coeff. of the resistance	$-200 \pm 200\text{ppm}/^{\circ}\text{C}$
Actual Temperature Coefficient of the output voltage	$< 1,5\text{ppm}/^{\circ}\text{C}$
Working temperature	$-30...+100^{\circ}\text{C}$
Storage temperature	$-50...+120^{\circ}\text{C}$
Case material	Anodised aluminium Nylon 66 GF 40
Control rod material	Stainless steel AISI 303
Fixing	Brackets with variable longitudinal axis

MECHANICAL DIMENSIONS

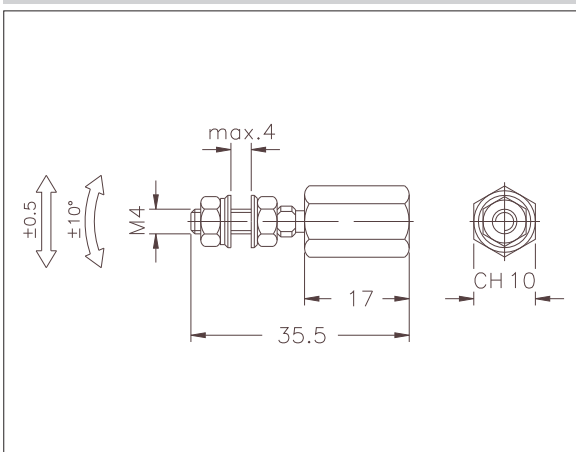


Important: all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor $I_c \leq 0.1 \mu\text{A}$.

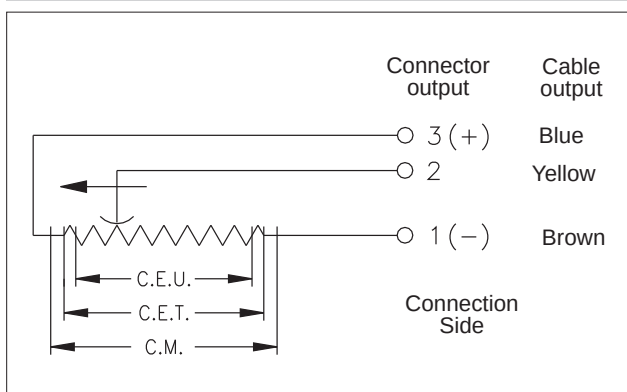
MECHANICAL / ELECTRICAL DATA

MODEL		25	50	75	100	150
Useful electrical stroke (C.E.U.) +3/-0	mm	25	50	75	100	150
Theoretical electrical stroke (C.E.T.) ±1	mm	C.E.U. + 1				
Resistance (C.E.T.)	kΩ	1	5	5	5	5
Independent linearity (within C.E.U.)	± %	0,2	0,1	0,1	0,1	0,05
Dissipation at 40° (0W at 120°C)	W	0,6	1,2	1,8	2,5	3,6
Maximum applicable voltage	V	25	60			
Mechanical stroke (C.M.)	mm	C.E.U. + 5				
Case length (A)	mm	C.E.U. + 38				
Total length (B)	mm	107	157	207	257	357

COUPLING JOINT



ELECTRICAL CONNECTIONS



ORDER CODE

Displacement transducer **PY1**

Cable output	F
Connector output DIN43322	C

Model

3-pole PVC cable output 3x0,25 1meter	S
Connector output	----

If requested, it is possible to supply models with non-standard mechanical and/or electrical features

Example: **PY1 - C - 100**

Displacement transducer model PY1, 5-pole connector output, useful electrical stroke (C.E.U.) 100mm.

ACCESSORIES

STANDARD ACCESSORIES

Fixing kit for PY1

4 brackets, M4x10 screws, grower

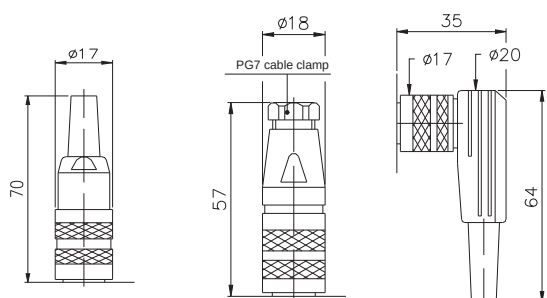
Code

PKIT005

Coupling joint

PKIT020

OPTIONAL ACCESSORIES



CON011 - IP40 Prot. (5 pole Female conn.) **CON012 - IP67 Prot.** (5 pole Female conn.) **CON013 - IP40 Prot.** (5 pole Female conn.)

Extraction length of the connector 10mm.

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



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