



Principal characteristics

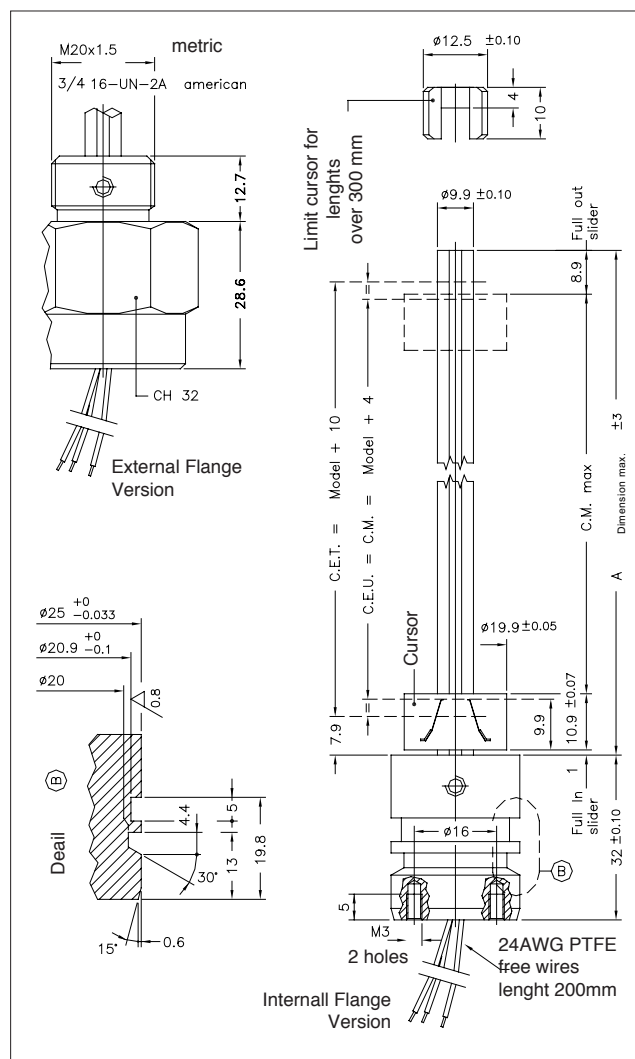
- Transducer with exposed tracks, allowing rod diameter is reduced to be reduced to a minimum to permit installation in small cylinders.
- Thanks to a special constructive technique, the IC transducer provides high resistance to the working pressures of oil-pressure cylinders (max 340 bar)
- Available with internal flanges or external threads to guarantee mechanical compatibility with all principal cylinder types.

TECHNICAL DATA

Model	100/150/200/300/350/500/550
Resolution	infinite
Repeatability	0,01mm
Independent linearity (within C.E.U.)	± 0,1%
Life	>25x10 ⁶ m strokes, or 100x10 ⁶ maneuvers, whichever is less (within C.E.U.)
Displacement speed	Standard ≤ 1,5m/s
Vibrations	5...2000Hz, Amax =0,75 mm amax. = 20 g
Shock	50 g, 11ms.
Tolerance on resistance	± 20%
Recommended cursor current	< 0,1μA
Maximum cursor current	10 mA
Dissipation at 40°C (0W at 120°C)	3W
Max. applicable voltage	60 V
Actual Temperature coeff. of the output voltage	< 1,5 ppm/°C
Electrical isolation	> 100MΩ at 500V=, 1bar, 2s
Dielectric strength	< 100μA at 500V~, 50Hz, 2s, 1bar
Working temperature	-30...+100°C
Storage temperature	-50...+120°C
Displacement speed	≤ 1.5 m/s
Displacement force	≤ 1 N
Stem material	Anodised aluminium
Flange material	Stainless steel AISI 303
Fixing	Internal or external flange

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 $I_c \leq 0.1 \mu A$.

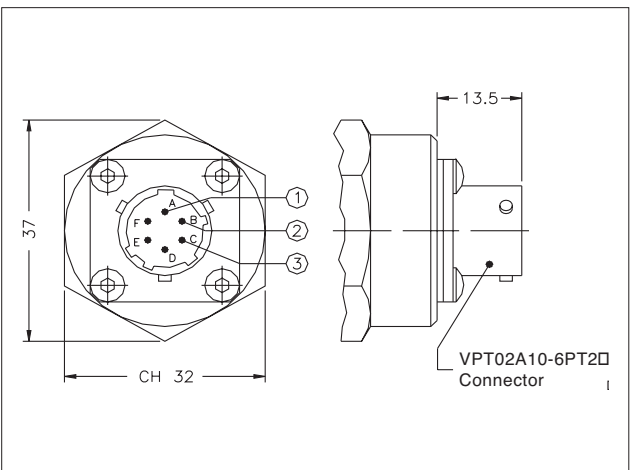
MECHANICAL DIMENSIONS



MECHANICAL / ELECTRICAL DATA

MODEL		100	150	200	300	350	500	550
Useful electrical stroke (C.E.U.) ± 1	mm	MODEL + 4						
Theoretical electrical stroke (C.E.T.) ± 1	mm	MODEL + 10						
Resistance (C.E.T.)	k Ω	10						
Mechanical stroke (C.M.) ± 1	mm	MODEL + 4						
Maximum length (A)	mm	124,8	174,8	224,8	324,8	374,8	524,8	574,8

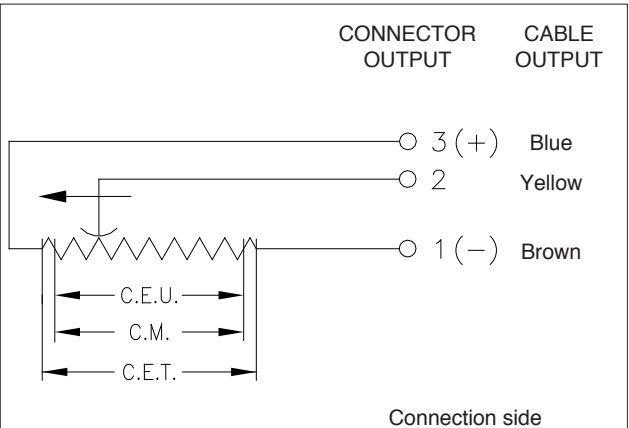
EXT. FLANGE VERSION / CONNECTOR



OPTIONAL ACCESSORIES

	Code
6 pole Female connector	CON300

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.

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ORDER CODE

Displacement transducer

3 free wires 200mm length output	F
Connector output (only for ext flange)	C

MODEL

Internal flange version	I
External flange version	E

Thread		
Internal flange		---
External flange	Metric	M
	American	I

Cable length (10 cm)

This part of the code only applies to the model with 3 wires output IC-F

0 0 0 0 X 0 0 0 X 0 0

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

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