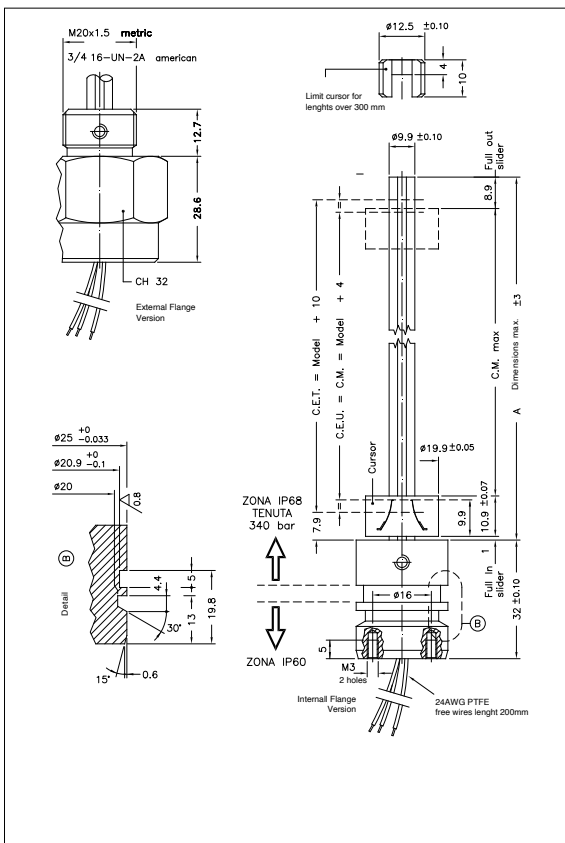




Principal characteristics

- 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.

MECHANICAL DIMENSIONS



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

TECHNICAL DATA

Model

from 100 to 700 mm
(for intermediate strokes see table "Electrical / Mechanical Data")

Resolution

infinite

Repeatability

0,01mm

Independent linearity (within C.E.U.)

$\pm 0,1\%$

Life

$> 25 \times 10^6$ m strokes, or 100×10^6 maneuvers, whichever is less (within C.E.U.)

Displacement speed

standard $< 1,5$ m/s

Vibrations

5...2000Hz, $A_{max} = 0,75$ mm $a_{max} = 20$ g

Shock

50 g, 11ms.

Tolerance on resistance

$\pm 20\%$

Recommended cursor current

$< 0,1 \mu A$

Maximum cursor current

10mA

Dissipation at 40°C (0W at 120°C)

3W

Max. applicable voltage

60V

Actual Temperature coefficient of the output voltage

≤ 5 ppm/°C

Electrical isolation

$> 100 M\Omega$ a 500V~, 1bar, 2s

Dielectric strength

$< 100 \mu A$ a 500V~, 50Hz, 2s, 1bar

Working temperature

-30...+100°C

Storage temperature

-50...+120°C

Displacement speed

≤ 5 ppm/°C

Displacement force

≤ 1 N

Rod material

Anodised aluminium

Flange material

Stainless steel AISI 303

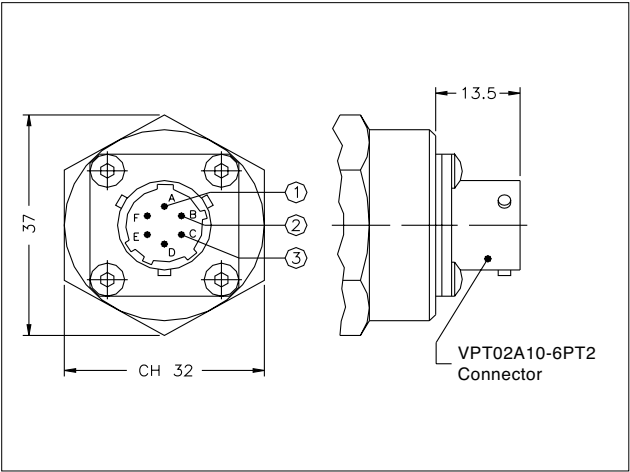
Fixing

Internal or external flange

ELECTRICAL / MECHANICAL DATA

MODEL		100	150	200	250	300	350	400	500	550	700
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	274,8	324,8	374,8	424,8	524,8	574,8	724,8

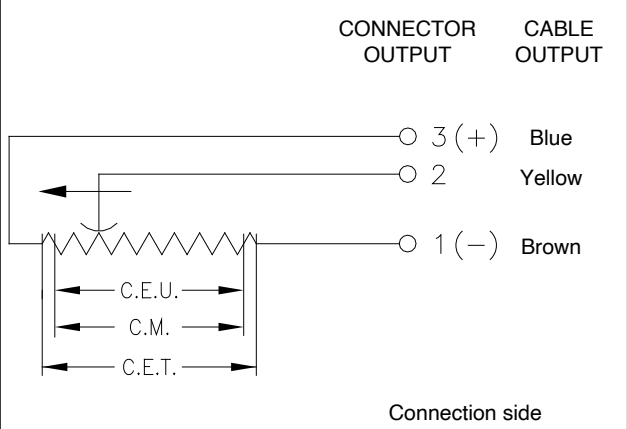
EXT. FLANGE VERSION / CONNECTOR



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

IC

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

Code: 0 0 0 0 X 0 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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