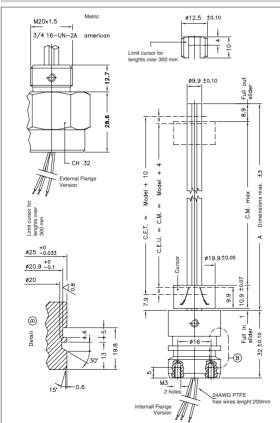
## **GEFRAN** *IC RECTILINEAR DISPLACEMENT TRANSDUCER FOR MOUNTING INSIDE HYDRAULIC ACTUATORS*





## 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.



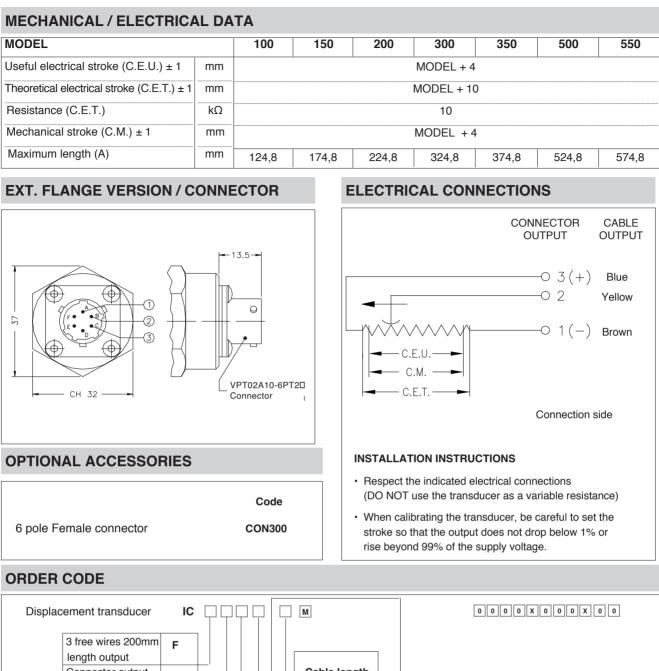
**Important**: all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor lc  $\leq$  0.1  $\mu$ A.

## **TECHNICAL DATA**

	TECHNICAL DATA
l	Model
1	100/150/200/300/350/500/550
	Resolution
	infinite
	Repeatibility
	0,01mm
	Independent linearity (within C.E.U.)
	± 0,1%
	Life
	$>25 x 10^{\rm 6}$ m strokes, or 100x106 maneuvers, whichever is less (within C.E.U.)
	Displacement speed
	standard $\leq$ 1,5 m/s
	Vibrations
	52000Hz, Amax =0,75 mm amax. = 20 g
	Shock
	50 g, 11ms.
	Tolerance on resistance
	± 20%
	Recommended cursor current
	< 0,1 µA
	Maximum cursor current
	10mA
	Dissipation at 40°C (0W at 120°C)
	3W
	Max. applicable voltage 60V
	Actual Temperature coefficient of the output voltage
	≤ 1,5 ppm/°C Electrical isolation
	$>100M\Omega a 500V=$ , 1bar, 2s
	Dielectric strength
	$< 100\mu$ A a 500V~, 50Hz, 2s, 1bar
	Working temperature
	-30+100°C
	Storage temperature
	-50+120°C
	Displacement speed
	≤ 1.5 m/s
	Displacement force
	≤1 N
	Rod material
	Anodised aluminium
	Flange material
	Stainless steel AISI 303
	Fixing
	Internal or external flance

Internal or external flange

## **MECHANICAL DIMENSIONS**



Connector output **Cable length** С (10 cm) (only for ext flange) MODEL This part of the code only applies to Internal flange I the model with version 3 wires output IC-F External flange Е version Thread Internal flange External Metric М flange American Т Ex.: IC - F - 300 - E - M

Displacement transducer model IC, 3 free wires 200mm. length output, external flange, metric thread and useful electrical stroke (C.E.U.) 300mm.

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

