



#### Principal characteristics

- The 3/4" cylindrical housing, plus the option of all fastening systems (brackets, joints or flange), makes the PZ34 series highly versatile for a wide range of applications.
- The optimized mechanical structure makes the product suitable for developing various special executions (contact Gefran customer service for details).
- Installation is simplified by the lack of electrical signal variation at output outside theoretical electrical stroke.
- Ideal for wood and glass working and finishing machines and for car test benches.

#### TECHNICAL DATA

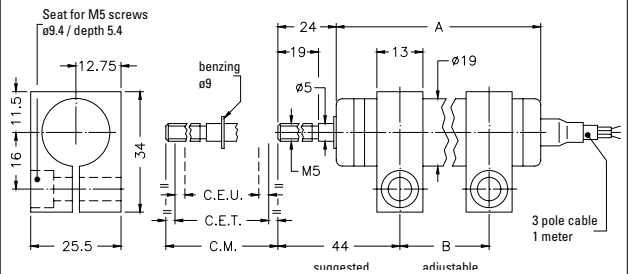
Useful electrical stroke (C.E.U.)	25/50/75/100/125/150/175/200/250/300
Resolution	infinite
Protection	IP60
Independent linearity (within C.E.U.)	see table
Displacement speed	$\leq 10$ m/s
Displacement force	$\leq 0.5$ N
Life	$>25 \times 10^6$ strokes, or $100 \times 10^6$ operations, whichever is less (within C.E.U.)
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
Max. applicable voltage	see table
Electrical isolation	$>100M\Omega$ at 500V=, 1bar, 2s
Dielectric strength	$< 100 \mu A$ at 500V~, 50Hz, 2s, 1bar
Dissipation at 40°C (0W at 120°C)	see table
Actual Temperature Coefficient of the output voltage	$< 1,5ppm/^{\circ}C$
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, selfaligning ball-joints or flange

#### Important:

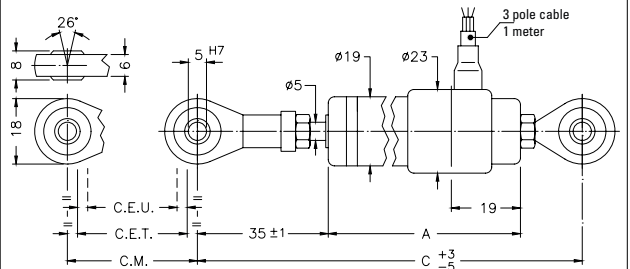
all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor  $I_c \leq 0.1 \mu A$ .

#### MECHANICAL DIMENSIONS

##### PZ34-S



##### PZ34-A



##### PZ34-F

