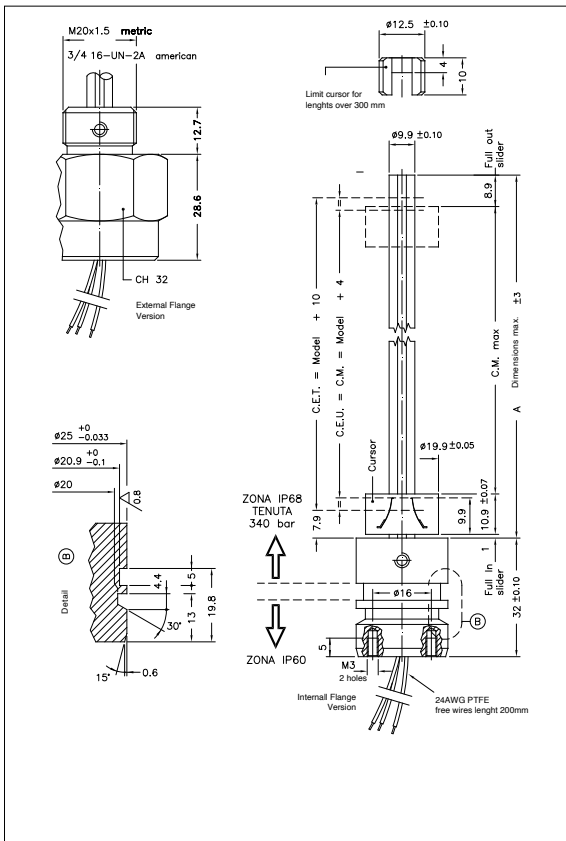




Principal characteristics

- 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

≤ 5 ppm/ $^{\circ}C$

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/ $^{\circ}C$

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/ $^{\circ}C$

Displacement force

≤ 1 N

Rod material

Anodised aluminium

Flange material

Stainless steel AISI 303

Fixing

Internal or external flange

