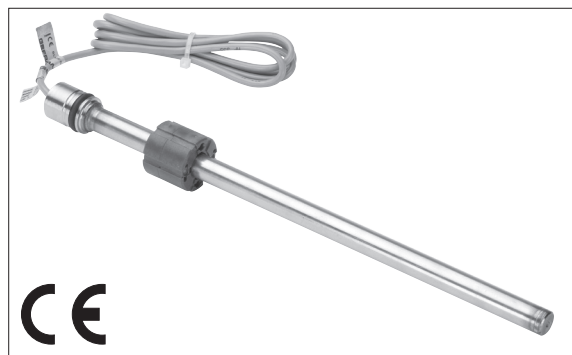
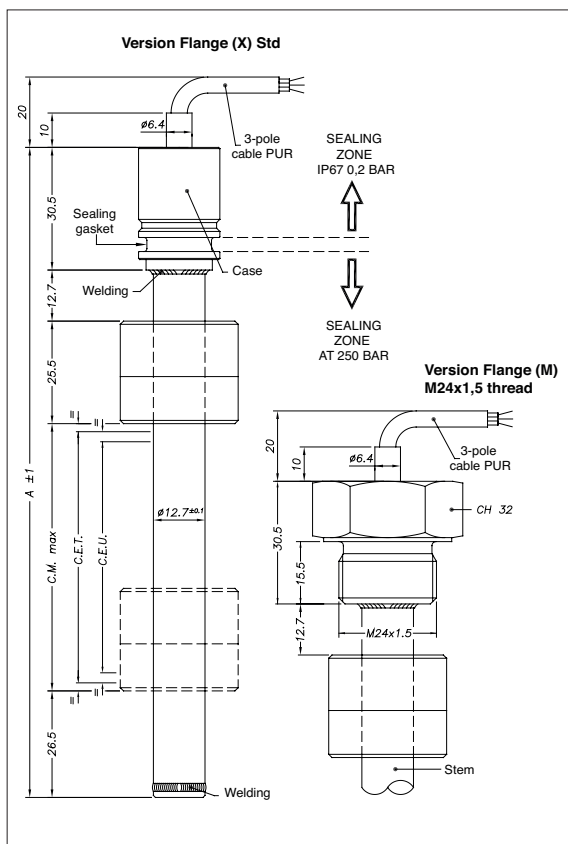




Applicative characteristics

- The PMI-SLE transducer, is the amplified version of the PMI-SL, a product designed for all inside cylinder applications which require a smaller transducer (the rod diameter is only 12,7 mm).
- The PMI Slim offers the same robustness: stainless-steel body, IP67 protection level, and pressure resistance up to 250 bar (400 bar peak)
- Available with flanged or threaded heads, to guarantee mechanical compatibility with all main cylinder types
- Patented solution
- Ideal for applications inside hydraulic cylinders, demanding simple solutions which guarantee measurement repeatability.

MECHANICAL DIMENSION



TECHNICAL DATA

Useful electrical stroke (C.E.U.)

50/100/150/200/250/300/350/400/450/500/550/600/750/800/850/900/950/1000

Independent linearity (within C.E.U.)

± 0,35%

Resolution

Infinite

Repeatability

≤ 0.08 mm

Hysteresis

< 250μm

Life

> 25x10⁶ m strokes, or > 100x10⁶ maneuvers, whichever is less

Displacement sensitivity (no hysteresis))

from 0.05 to 0.1 mm

Tracking error

see table

Displacement speed

standard ≤ 5 m/s

Max. acceleration

≤ 10m/s² max displacement

Cursor dragging force

≤ 0.5 N

Vibrations

5...2000Hz, Amax = 0,75 mm a max. = 20 g

Shock

50 g, 11ms.

Power supply voltage

10...30Vdc (see the load diagram)

Max power consumption

35mA

Min load allowed

see the load diagram

Output signal

4...20 mA

- ZERO position (4mA): between 1% and 3% of the C.E.U.

- SPAN position (20mA): between 96% and 99% of the C.E.U.

Electrical connection

1 mt. 3-pole shielded cable

Sampling time

≤ 1 ms

Noise on output

< 0.08%FS RMS

Electrical isolation

> 100 MΩ at 45 Vdc = 1 bar, 2 s

Zero and FSO temperature drift

< 0.02%FS/°C

Polarity inversion protection

Yes

Pulse overvoltage protection

Yes

Working temperature

-30...+80°C

Storage temperature

-40...+100°C

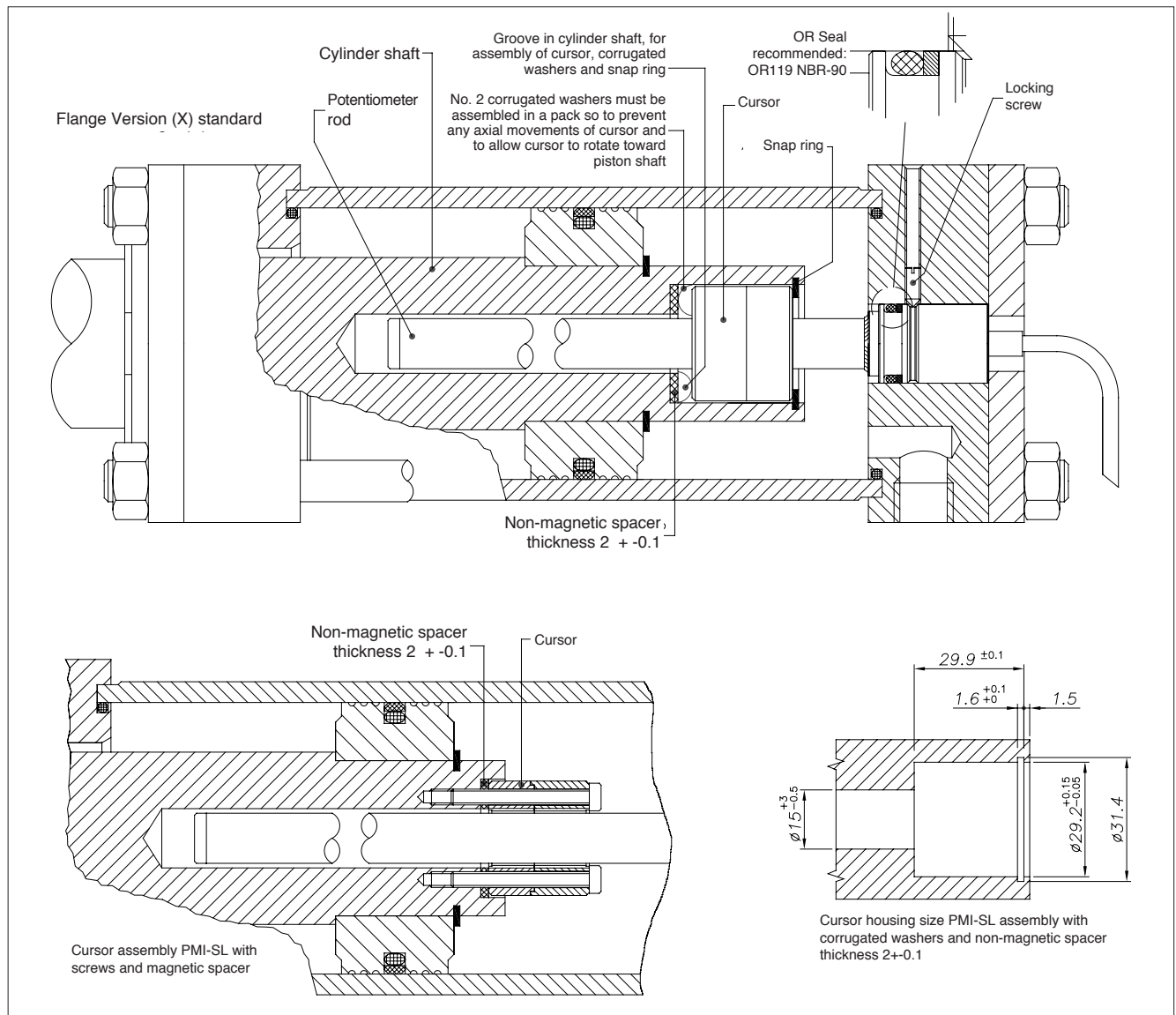
Protection level

IP67

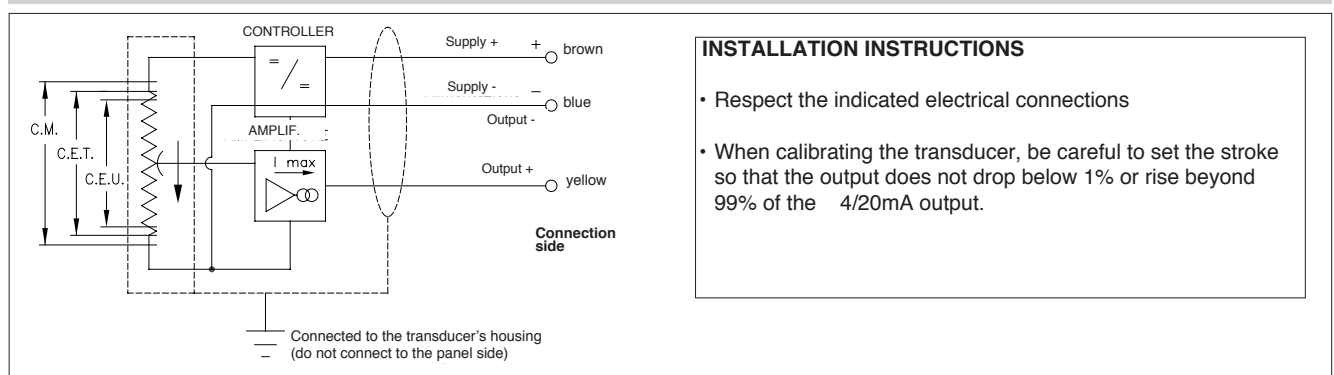
Material for transducer case

Steel AISI 304

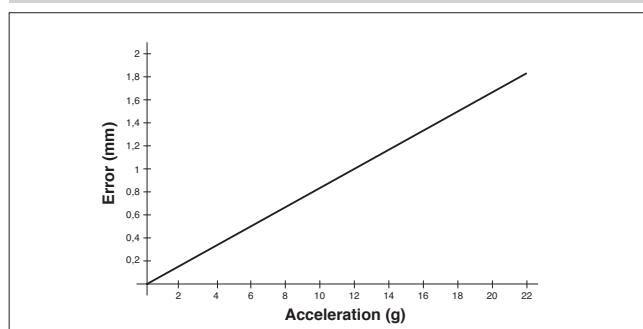
INSTALLATION INSIDE THE CYLINDER



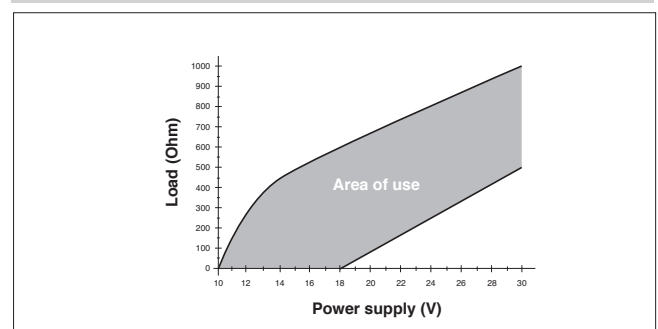
ELECTRICAL CONNECTIONS



TRACKING ERROR



LOAD DIAGRAM



ACCESSORIES (series)

Standard magnetic cursor	PCUR010
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PCUR010

ORDERING CODE

Displacement transducer

P	M	I	S	L	E						
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4...20mA analog output

3-pole PUR cable output 3x0.25, 1 mt	F
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Model

Standard flange	X
Threaded flange M24x1.5	M

Version F cable length

1 mt cable (standard)	00
2 mt cable	02
3 mt cable	03
4 mt cable	04
5 mt cable	05
10 mt cable	10
15 mt cable	15

Options and Certificate

No certificate attached	0
Linearity curve to be attached	L

Final Code: 0000X000XX00XXX

Sensors are manufactured in compliance with:

- EMC 2004/108/CE compatibility directive
- RoHS 2002/95/CE directive

Electrical installation requirements and Conformity certificate are available on our web site: www.gefran.com

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