



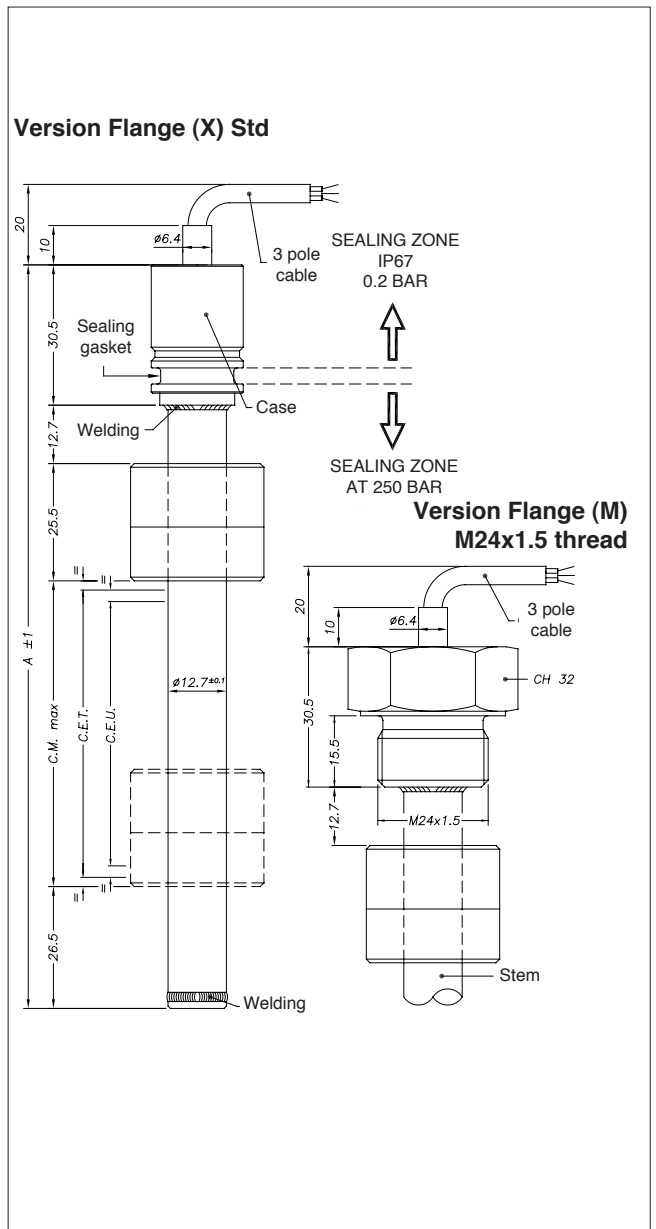
### TECHNICAL DATA

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
Durata di vita	> 25x10 <sup>6</sup> m strokes, or > 100x10 <sup>6</sup> 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/s <sup>2</sup> max displacement
Cursor dragging force	≤ 0.5 N
Vibrations	5...2000 Hz, Amax = 0.75 mm amax = 20 g
Shock	50 g, 11 ms
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

### 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

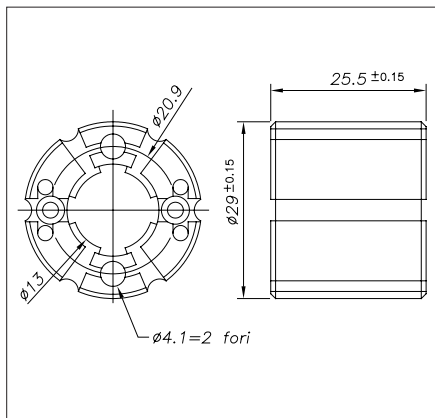
### MECHANICAL DIMENSION



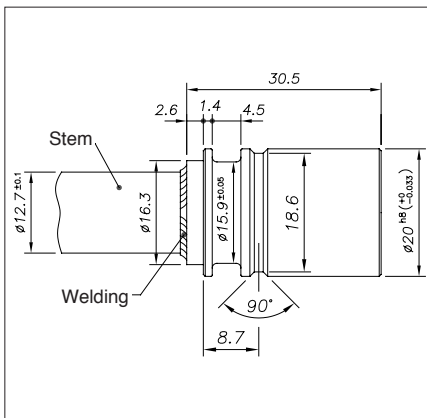
## MECHANICAL / ELECTRICAL DATA

MODEL		50	100	150	200	250	300	350	400	450	500	550	600	750	800	850	900	950	1000	
Useful electrical stroke (C.E.U.) + 1/-0	mm	<b>Model</b> C.E.U. + 1 0.35 C.E.U. + 5 C.E.U. + 100.2																		
Theoretical electrical stroke (C.E.T.) ± 1	mm																			
Independent linearity (within C.E.U.)	± %																			
Mechanical stroke (C.M.)	mm																			
Lenght "A" ±1	mm																			

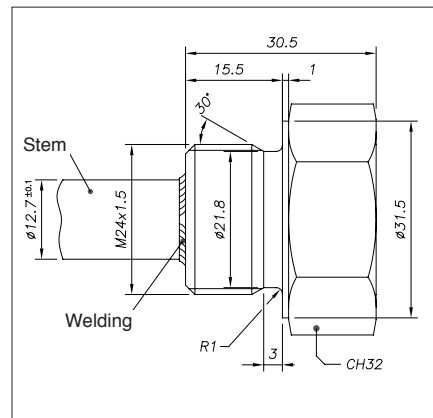
### PCUR010 CURSOR



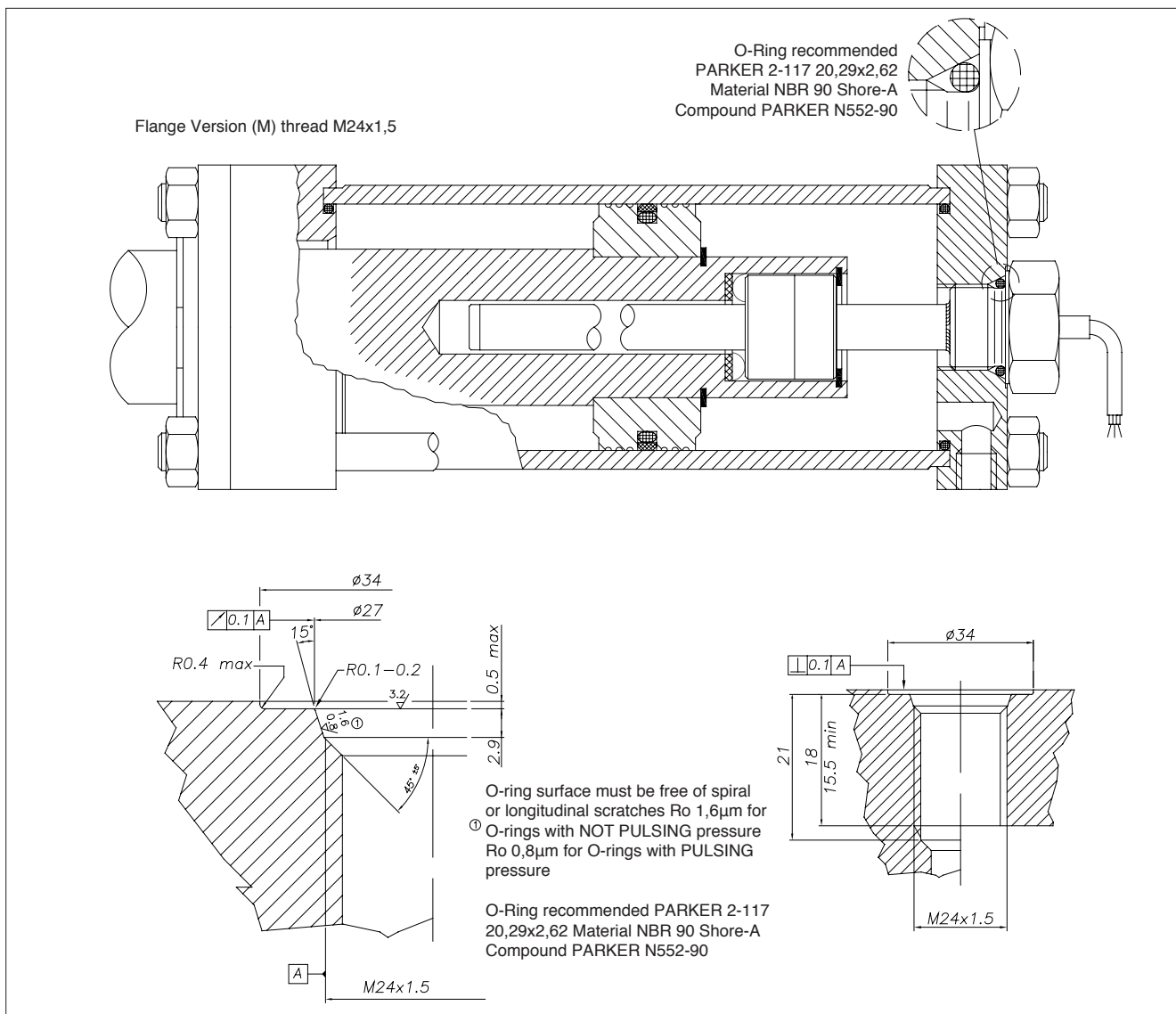
### STANDARD FLANGE (X)



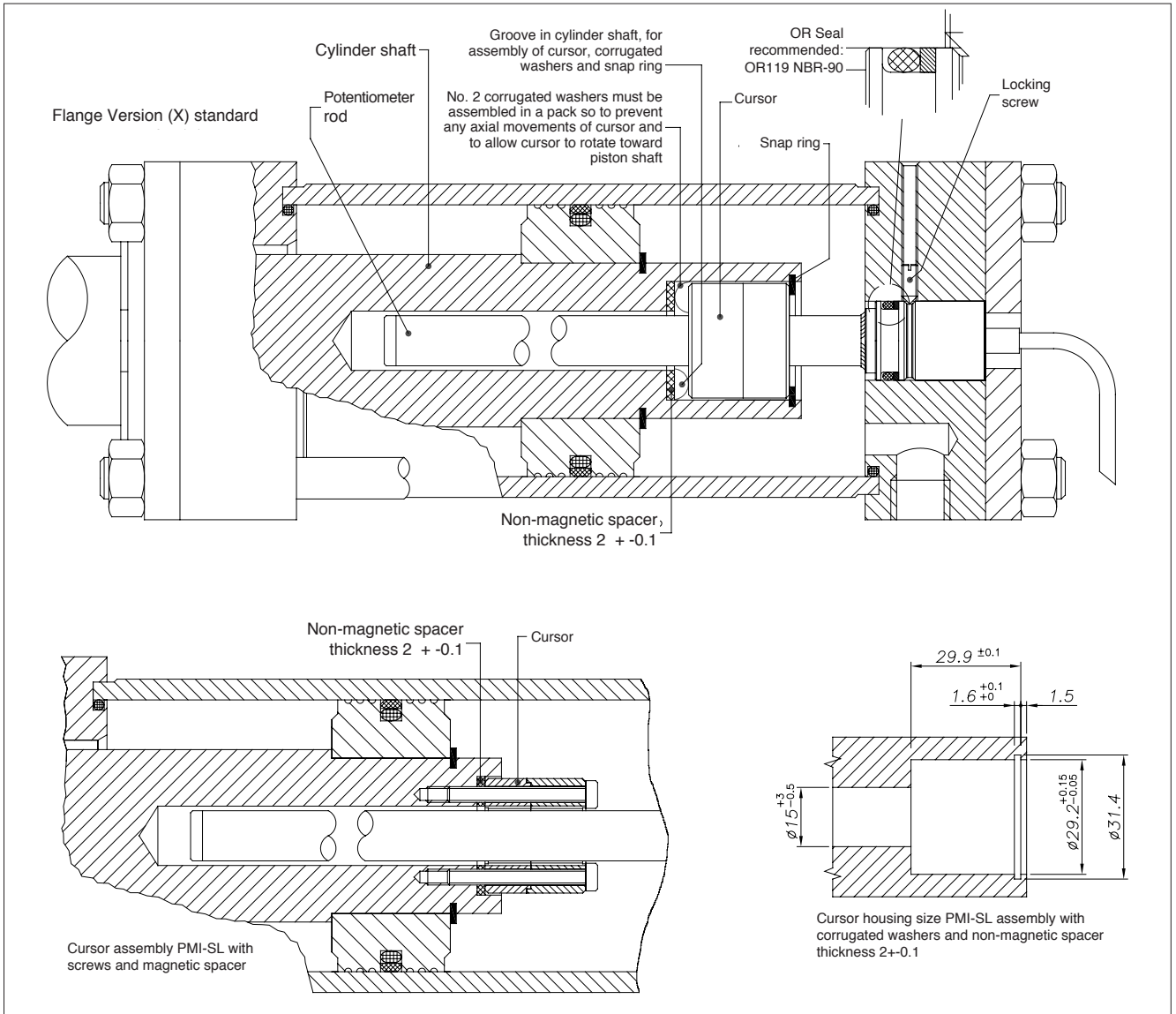
### THREADED FLANGE (M)



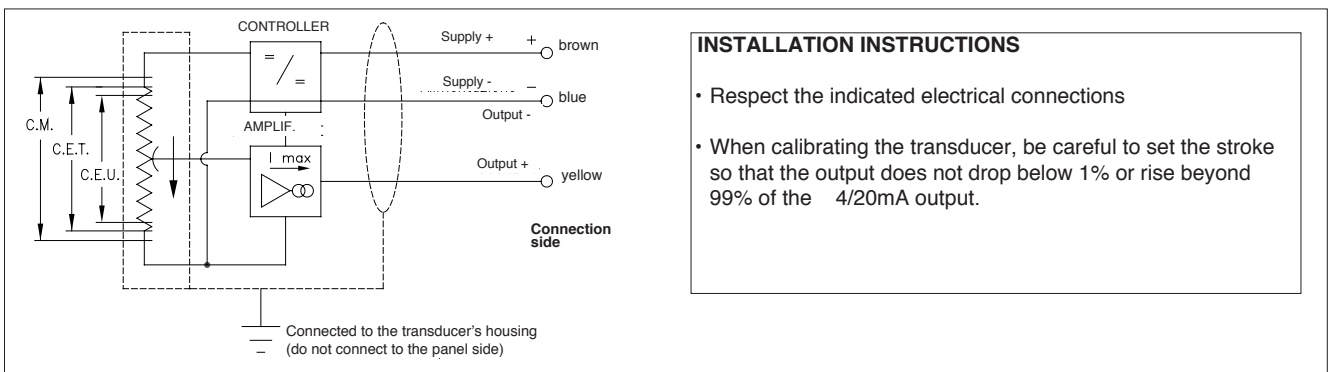
## INSTALLATION INSIDE THE CYLINDER



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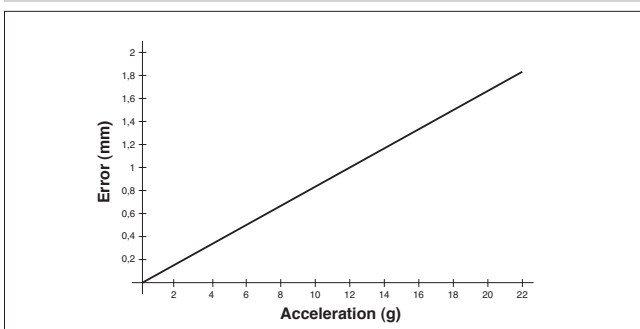
## ELECTRICAL CONNECTIONS



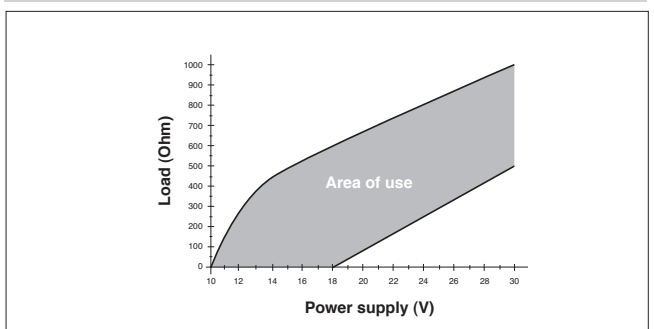
### INSTALLATION INSTRUCTIONS

- Respect the indicated electrical connections
- 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 4/20mA output.

## TRACKING ERROR



## LOAD DIAGRAM



## ACCESSORIES (series)

Standard magnetic cursor

PCUR010

## ORDERING CODE

Displacement  
transducer

P M I S L E

0 0 0 0 X 0 0 0 X X X X X X

4...20mA analog output

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

Model

Standard flange

Threaded flange M24x1.5

F

X

M

No certificate attached

0

Linearity curve to be attached

L

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

Ex.: PMI-SLE-F-0400-X 0000X000XX00XXX

PMI SLE displacement transducer, 4...20mA analog output, useful electrical stroke (C.E.U.) 400mm, standard flange, no certificate attached, cable length 1 mt.

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](http://www.gefran.com)

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