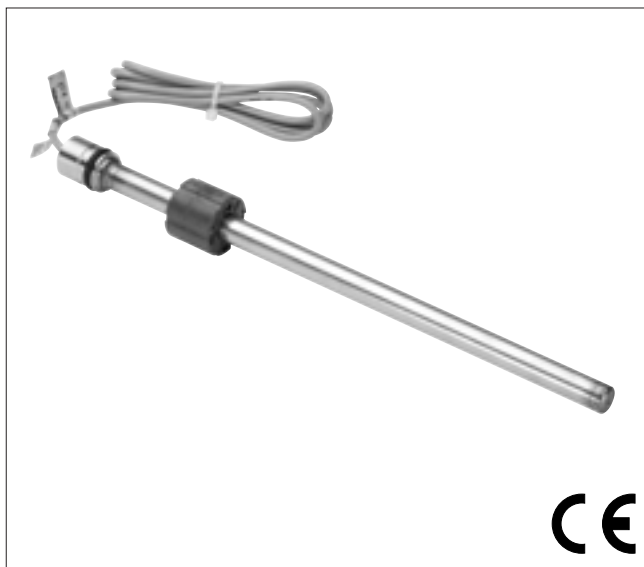




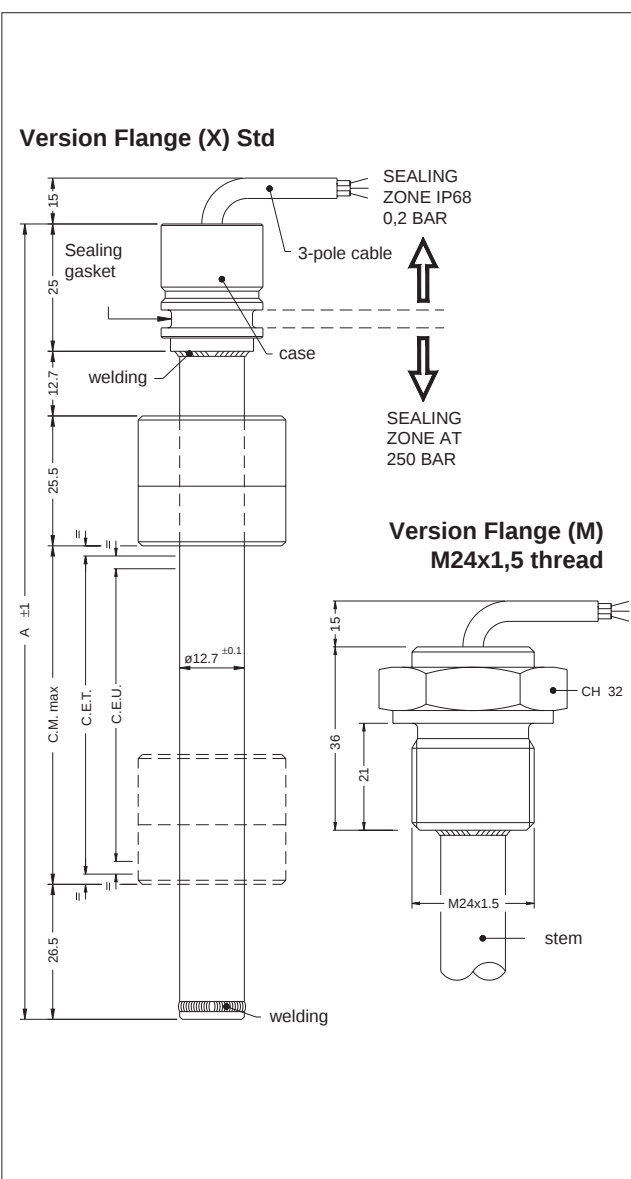
Applicative characteristics

- The PMI Slim transducer, an evolution of the PMI-12, is designed for all inside cylinder applications which require a smaller transducer. For this reason, the diameter has been reduced to 12.7 mm.
- The PMI Slim offers the same robustness as the PMI-12: AISI 316 stainless steel body, IP68 protection level, and pressure resistance up to 250 bar (400 bar peak)
- Available with internal or threaded external flanges to guarantee mechanical compatibility with all main cylinder types
- Patented solution
- Ideal for applications inside hydraulic cylinders, demanding simple solutions which guarantee measurement repeatability

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
Electrical connection	1 mt. 3-pole shielded cable
Displacement speed	standard ≤ 5 m/s
Max. acceleration	≤ 10m/s ² max displacement
Cursor dragging force	≤ 0.5 N
Vibrations	5...2000 Hz, Amax = 0.75 mm amax = 20 g
Shock	50 g, 11 ms
Displacement sensitivity (no hysteresis)	from 0.05 to 0.1 mm
Tracking error	see table
Tolerance on resistance	± 20%
Recommended cursor current	< 0.1 µA
Maximum cursor current in case of bad performances	10 mA
Maximum applicable voltage	see table
Electrical isolation	> 100 MΩ at 500 V = 1 bar, 2 s
Dielectric strenght	< 100 µA at 500 V~ 50 Hz, 2 s, 1 bar
Dissipation at 40°C (0 W at 120°C)	see table
Thermal coefficient of resistance	-200...+200 ppm/°C typical
Actual Temperature Coefficient of the output voltage	≤ 5 ppm/°C typical
Working temperature	-30...+100°C
Storage temperature	-50...+120°C
Material for transducer case	Steel AISI 316 / AISI 304

MECHANICAL DIMENSION



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

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	Model																	
Theoretical electrical stroke (C.E.T.) ± 1	mm	C.E.U. + 1																	
Independent linearity (within C.E.U.)	± %	0.35																	
Dissipation at 40°C (0W at 120°C)	W	1	2							3									
Max applicable voltage	V	40	60																
Resistance (C.E.T.)	kΩ	5						10						20					
Mechanical stroke (C.M.)	mm	C.E.U. + 5																	
Case Lenght "A" ±1	mm	C.E.U. + 94.7																	

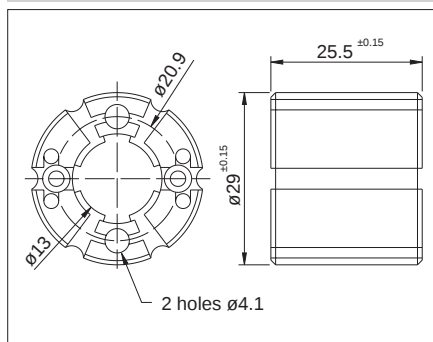
ELECTRICAL CONNECTIONS

Connection side

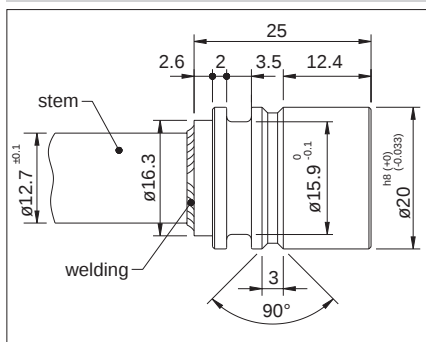
INSTALLATION INSTRUCTIONS

- Make the specified electrical connections (DO NOT use the transducer as a variable resistance)
- When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise above 99% of the voltage level.

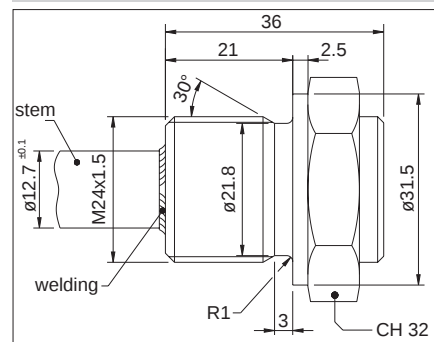
PCUR010 CURSOR



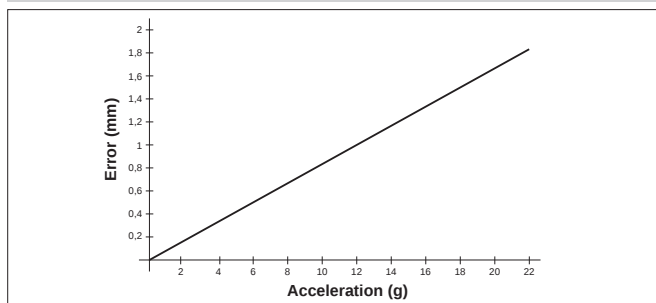
STANDARD FLANGE (X)



THREADED FLANGE (M)



TRACKING ERROR



ACCESSORIES (standard)

Standard magnetic cursor

PCUR010

ORDER CODE

Displacement transducers P M I S L

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

Model

Standard flange X

Threaded flange M24x1,5 M

No certificate attached 0

Linearity curve to be attached L

Ex.: **PMI-SL-F-0400-X 0000X000XX00XXX**
 PMI SL displacement transducer, cable output, useful electrical stroke (C.E.U.) 400mm, standard flange, no certificate attached, cable length 1 mt.

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

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

PCUR010

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

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