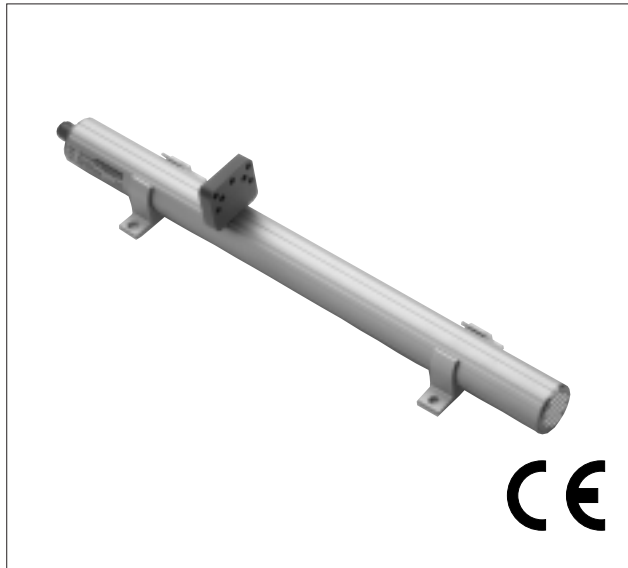




MK3 A

CONTACTLESS MAGNETOSTRICTIVE LINEAR POSITION TRANSDUCER
(ANALOG OUTPUT) Patent Pending



Main characteristics

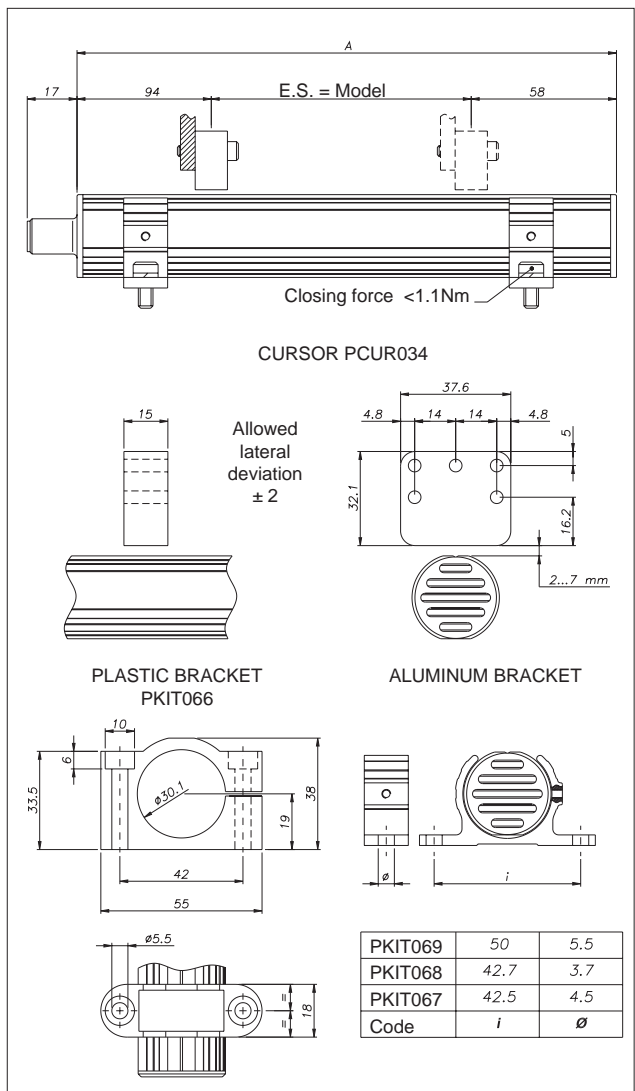
- Absolute transducer
- Strokes from 50 to 1500mm
- Work temperature: -30...+75°C
- Resistance to vibration (DIN IEC68T2/6 12g)
- Low profile and reduced dimensions
- IP67 protection
- CE compatibility (EN 50081-2 50082-1)
- Power supply 24Vdc ±20%

Contactless linear position transducer with magnetostrictive technology. The absence of electrical contact on the cursor eliminates all wear and guarantees almost unlimited life. Compact size for simple installation. Full protection against outside agents for use in harsh environments with high contamination and presence of dust. Excellent linearity, repeatability, resistance to mechanical vibrations and shocks.

TECHNICAL DATA

Model	from 50 to 1500 mm
Measurement taken	Displacement
Position read sampling time (typical)	1 ms
Shock test DIN IEC68T2-27	100g - 11ms - single shock
Vibrations DIN IEC68T2-6	12g / 10...2000Hz
Displacement speed	≤ 10 m/s
Max. acceleration	≤ 100 m/s ² displacement
Resolution	≤ 0.1 mV
Magnet type	Separate floating magnet
Rated power supply	24Vdc ± 20%
Max. power ripple	1 Vpp
Max. input	70mA
Output signal (compared to connection side)	Voltage 0...+10V or +10...0Vdc
Output load	≥ 2KΩ
Max. output ripple	≤ 5 mV pp
Electrical isolation	500V (D.C. power / ground)
Prot. against polarity inversion	YES
Prot. against overvoltage	YES
Self-resetting internal fuse	YES
Protection	IP67
Working temperature	-30...+75°C
Storage temperature	-40...+100°C
Coefficient of temperature	≤ 0.005% F.S. /°C

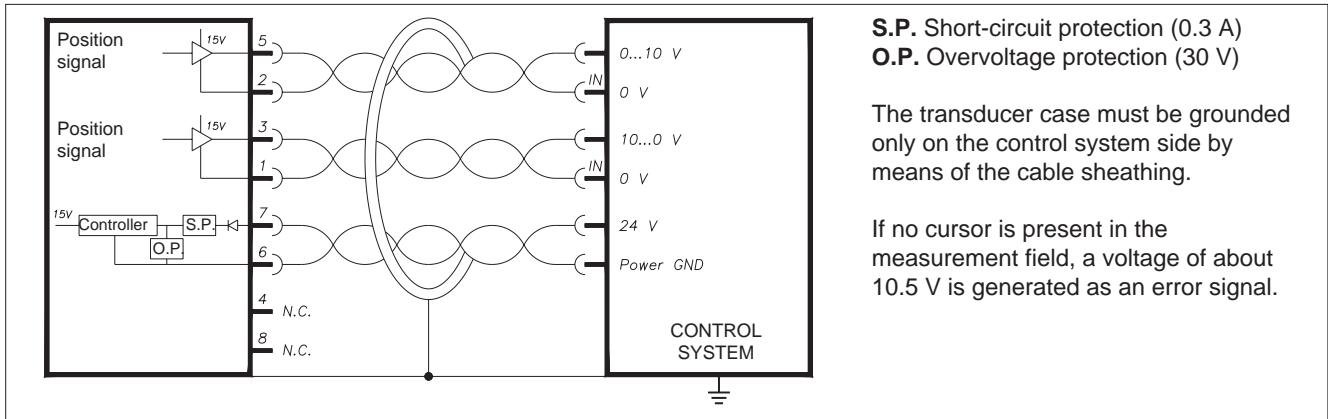
MECHANICAL DIMENSIONS



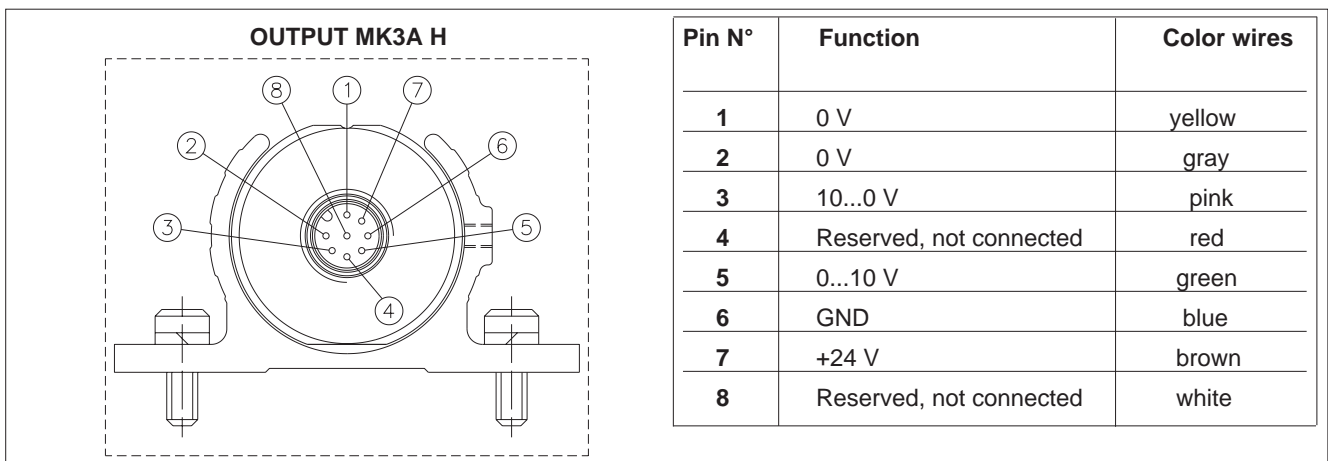
ELECTRICAL / MECHANICAL DATA

Model		50	75	100	130	150	175	200	225	250	300	350	360	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200	1250	1300	1400	1500
Electrical stroke (E.S.)	mm	Model																														
Independent linearity	± %	0.1	0.05															≤ 0.025														
Max. dimensions (A)	mm	Model + 152																														
Repeatability	mm	< 0.01																														
Hysteresis	mm	< 0.01																														
Sampling time	ms	0.5														1 (1.5 per stroke ≥ 1100)																

CONNECTION DIAGRAM



ELECTRICAL CONNECTIONS



ORDER CODE

Position	Description	Accessories on request
transducer	M K 3 A H [] [] [] [] X 1	P C U R [] [] [] [] 0 1 P K I T [] [] [] []
Output 0...10Vdc / +10...0Vdc	A	Floating cursor Cursor PCUR034
M 12 8-pin connector output	H	Number of cursors
Model		Bracket PKIT066 (Plastic) PKIT067 (Aluminium) PKIT068 (Aluminium) PKIT069 (Aluminium)
Mechanical and/or electrical characteristics differing from those in the standard version may be arranged on request.		Number of brackets
Ex.: MK3-A-H-0400-X-1-PCUR034-01-PKIT066-02 Transducer model MK3, output 0...10Vdc, model 400, connector H, 1 standard cursor PCUR034, 2 plastic brackets PKIT066.		When heavy vibrations or shocks are present, we recommend installation of brackets every 250 millimeters.

GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice.



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