GEFRAN

PR65

ROTATIVE POSITION TRANSDUCER IN CONDUCTIVE PLASTIC



Main features

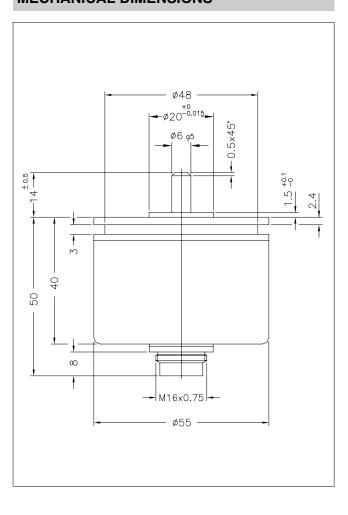
- · Sealed industrial version
- Independent linearity up to $\pm 0.05\%$ (standard $\pm 0.5\%$)
- Working temperature: -55...+100°C
- · Repetibility 0,01% della C.E.T.
- Life duration: >100x10° operations at 10 r.p.s. (within C.E.U.)
- · Infinite resolution
- Electrical connection: 5-pole connector DIN 43322
- Grade of protection IP65
- Suitable for use in explosive environments with presence of gas (groups IIA, IIB, IIC) and combustible powders. Standards for simple device: ATEX CEI EN 50020 2003 - paragraph 5.4 a

TECHNICAL DATA

Model	PR65	
Vibrations	52000Hz, Amax =0,75 mm amax. = 20 g	
Shock	50 g, 11ms.	
Hysteresis (backlash)	<= 15" of arc	
Tolerance on resistance total	± 20%	
Recommended cursor current	< 0,1μΑ	
Maximum cursor current	10mA	
Electrical isolation	>100MΩ a 500V=, 1bar, 2s	
Dielectric strength	< 100 μA a 500V~, 50Hz, 2s, 1bar	
Dissipation at 40°C (0W at 120°C)	see table	
Actual Temperature Coefficient of the output voltage	< 1,5ppm/°C	
Working temperature	-55+100°C	
Storage temperature	-55+125°C	
Case material	Nylon 66 GF 40	
Shaft material	AISI 316	
Bearings	High precision with double (ZZ) sealed screen in stainless steel	
Flange	Anodised aluminium	

Important: all the data reported in the catalogue linearity, lifetime, temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor Ic $\leq 0.1~\mu A$.

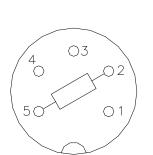
MECHANICAL DIMENSIONS



MECHANICAL / ELECTRICAL DATA

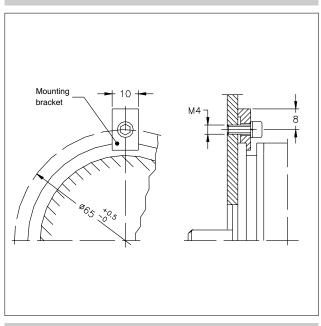
Model		PR65
Theoretical electrical stroke (C.E.T.)	0	345 ± 4°
Useful electrical stroke (C.E.U.)	0	C.E.T2°
Resistance (C.E.T.)	kΩ	1 - 4.7 - 10
Indipendent linearity (within C.E.U.)	±%	$A = \pm 1\%$ $B = \pm 0.5\%$ $C = \pm 0.25\%$ $D = \pm 0.1\%$ $E = \pm 0.05\%$
Dissipation at 40°C (0W at 120°C)	w	1.25
Mechanical rotation (C.M.)	0	360° continuous
Weight	g	132

ELECTRICAL CONNECTIONS

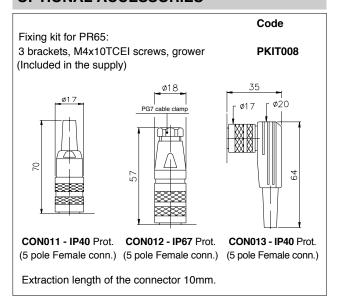


A $5K\Omega$ protection resistance has been connected between pins 2 (cursor) and 5; in case of the cursor is connected to pin 5, eventual short-circuits due to wiring errors are avoided.

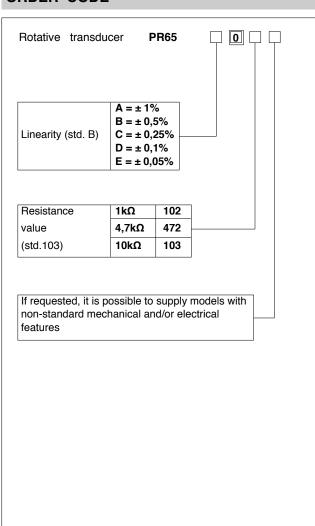
MOUNTING DIAGRAM



OPTIONAL ACCESSORIES



ORDER CODE



Example:**PR65 - B - 0 - 103**

Rotative transducer model PR65, linearity ±0,5%, no voltage or current intermediate pick-offs, $10k\Omega$ resistance.

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



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