GEFRAN

PR65

ROTATIVE POSITION TRANSDUCER IN CONDUCTIVE PLASTIC



Main features

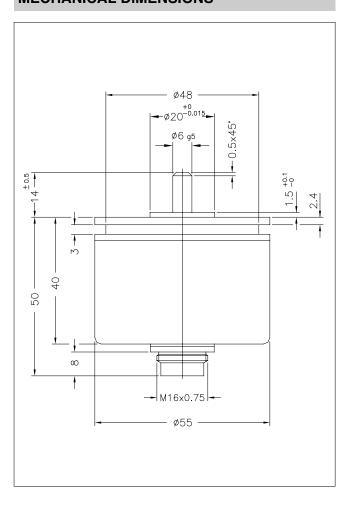
- · Sealed industrial version
- Independent linearity up to $\pm 0.05\%$ (standard $\pm 0.5\%$)
- Working temperature: -55...+100°C
- · Repetibility 0,01% della C.E.T.
- Life duration: >100x10° operations at 10 r.p.s. (within C.E.U.)
- · Infinite resolution
- Electrical connection: 5-pole connector DIN 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	< 0,1µA	
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 $\leq 0.1~\mu A$.

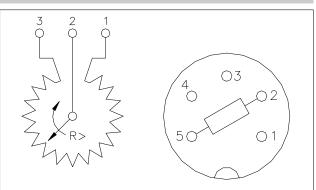
MECHANICAL DIMENSIONS



MECHANICAL / ELECTRICAL DATA

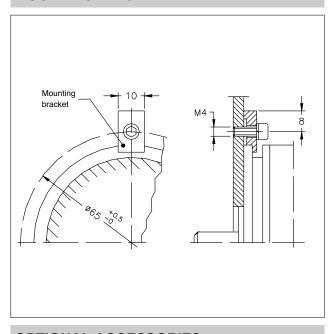
Model		PR65
Theoretical electrical stroke (C.E.T.)	0	345 ± 4°
Useful electrical stroke (C.E.U.)	0	C.E.T2°
Resistance (C.E.T.)	kΩ	1 - 4.7 - 10
Indipendent linearity (within C.E.U.)	±%	$A = \pm 1\%$ $B = \pm 0.5\%$ $C = \pm 0.25\%$ $D = \pm 0.1\%$ $E = \pm 0.05\%$
Dissipation at 40°C (0W at 120°C)	w	1.25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

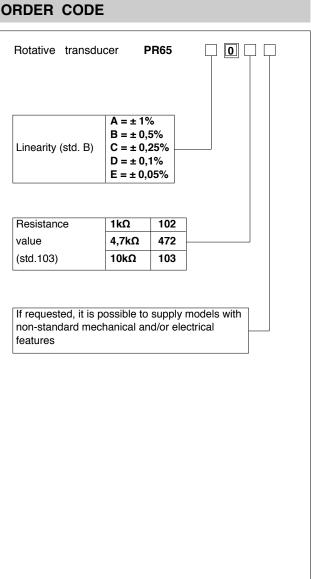
ELECTRICAL CONNECTIONS



A $5 \text{K}\Omega$ 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





Rotative transducer model PR65, linearity ±0,5%, no voltage

or current intermediate pick-offs, $10k\Omega$ resistance.

OPTIONAL ACCESSORIES

Code Fixing kit for PR65: 3 brackets, M4x10TCEI screws, grower PKIT008 (Included in the supply) ø20 57 CON011 - IP40 Prot. CON012 - IP67 Prot. CON013 - IP40 Prot. (5 pole Female conn.) (5 pole Female conn.) (5 pole Female conn.) Extraction length of the connector 10mm.

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

Example: PR65 - B - 0 - 103

GEFRAN spa

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