



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 vol- tage	< 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 t temperature coefficient are valid for	

temperature coefficient are valid for a sensor utilization as a ratiometric device with a max current across the cursor $lc \le 0.1 \ \mu$ A.

MECHANICAL DIMENSIONS



MECHANICAL / ELECTRICAL DATA

Model		PR65
Theoretical electrical stroke (C.E.T.)	o	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

MOUNTING DIAGRAM



OPTIONAL ACCESSORIES



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.

ORDER CODE

Linearity (std. B)	$A = \pm 1$ $B = \pm 0,$ $C = \pm 0,$ $D = \pm 0,$ $E = \pm 0,$	5% 25% — 1%		
Resistance	1kΩ	102	7	
value	4,7kΩ	472	-	1 1
	.,	4/2		
If requested, it is p non-standard med	10kΩ	103		with
(std.103) If requested, it is p non-standard med features	10kΩ	103		with
If requested, it is p non-standard med	10kΩ	103		with
If requested, it is p non-standard med	10kΩ	103		with
If requested, it is p non-standard med	10kΩ	103		with
If requested, it is p non-standard med	10kΩ	103		with

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



GEFRAN spa via Sebina, 74 25050 PROVAGLIO D'ISEO (BS) - ITALIA ph. 0309888.1 - fax. 0309839063 Internet: http://www.gefran.com