TR FORCE TRANSDUCER FOR MEASURING THE TENSION ON FIXED OR ROTATING SPINDLES



TECHNICAL DATA

GEFRAN

0,50%	
100N2kN	
2mV/V	
<± 1% FSO	
< ± 0,5% FSO	
< ± 0,06% FSO	
<±1% FSO	
< + 0.005% ESO°C	
< + 0.01% ESO°C	
< ± 0,01 /81 30 0	
-	
350 Ohm	
> 10 GOhm	
10V	
15 V	
-10+50°C	
-20+60°C	
-30+80°C	
100% Ln	
300% Ln	
> 500% Ln [6 kN max.]	
150% Ln	
< 0,5 mm	
IP65	
VPT02A10-6PT2	
Aluminium (1001kN) Stainless steel (1.5kN - 2 kN)	
Anodised aluminium (Flange and bearing in AISI 303)	

Main features

- Range of measurement: from 100 N to 2kN
- Accuracy class: 0,5%
- Corrosion resistant
- Internally generated calibration signal
- Orientation of the axis of maximum sensitivity for 35° independently from the position of the fixing holes
- Grade of protection: IP65 (DIN 40050)
- · Integrated protection against overloads

TR series force transducers are used to measure the tension that plastic films or tapes exert on the guide rollers of the machinery used to coil them.

Mounted at the ends of a fixed or transmission shaft on the machine chassis, they perform the function of force sensors and bearing for the ends of the shaft.

They are used on both fixed and rotating shafts. TR transducers are supplied with the adaptor flange for fixing, with 4 M6 screws or with one central M10 or M12 screw.

MECHANICAL DIMENSIONS



ELECTRICAL CONNECTIONS



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Cells connected in parallel
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In systems that use several cells, the parallel connection automatically sums the loads on each individual cell.

Using this method of measurement, the maximum load will be the sum of the loads on the individual cells and the sensitivity will be the average value of these cells.

It is important that the user ensures that no cell is stessed beyond its maximum rating under any load condition.

CONVERSION TABLE

Kg	N	Lb
1	9.807	2.205
0.102	1	0.225
0.454	4.448	1

FLANGE





OPTIONAL ACCESSORIES

Radial bearing with stop ring (UNI7437-75) and spacer 35 mm 40 mm	PKIT 602 PKIT 600		
Female cable connector Grade of protection IP65	CON 300	Cable colour code	
6-pin connector with 8m (25ft) cable	C08W	Conn.	wires
6-nin connector with 15m (50ft) cable	C15W	Α	Red
		B	Black
6-pin connector with 25m (75ft) cable	C25W	C	White
6-pin connector with 30m (100ft) cable	C30W	D	Green
	consult factory	E	Blue
Other lengths		F	Orange
TR application manual	DOC467	L	1

ORDER CODE



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

