



PZTO21 Low Capacity Rotary Torque Transducer ProZa

Description

The model PZTO21 rotary torque transducer is designed for low torque measurements. This model features no electric brush between this rotor and stator by applying the electromagnetic induction principle. The no-contact nature of the signal transfer can eliminate the need of maintenance, which makes the transducers capable of operating under high speed for a long time. Moreover, this transducer is also widely used to measure viscous forces.

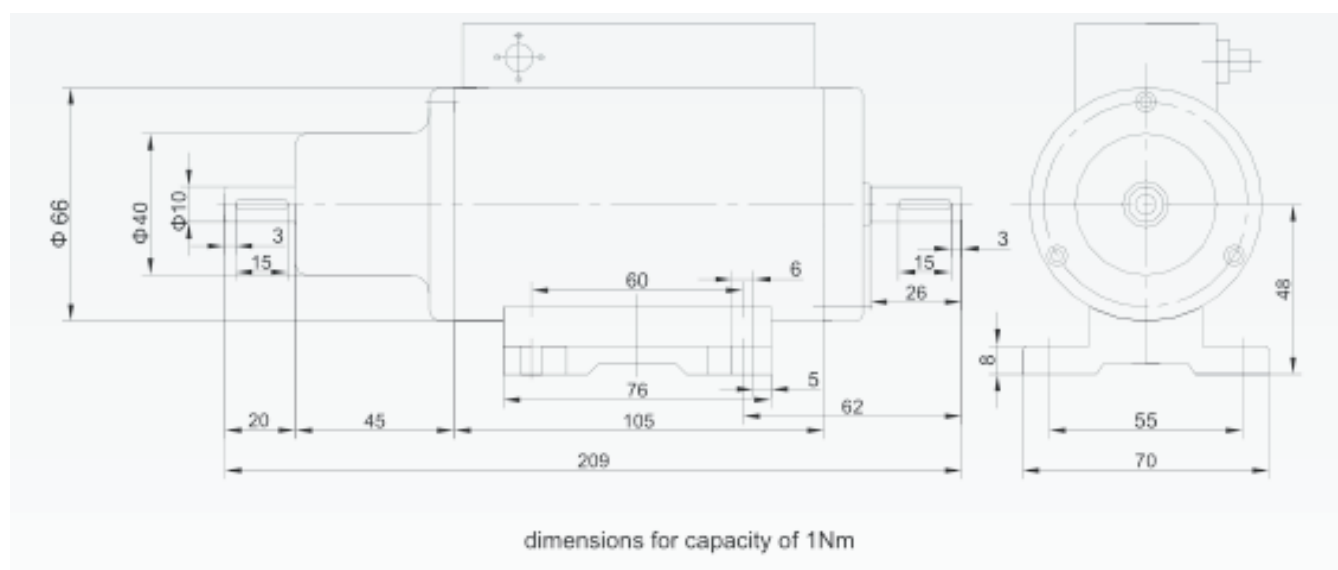
The measuring torque capacity spans from 0.005Nm to 2Nm with accuracy of 0.5%fs. Its output signal is frequency signal $10\pm 5\text{kHz}$ (square wave, 6V). The transducer can be coupled with a speed sensor on request, and its tachometer wheel measures the rotational speed up to 60 pulses per round.

Features:

- 0.005Nm, ..., 2Nm capacity
- Maximum rotation speed of 3000rpm
- 0.5%fs measuring accuracy
- speed measurement available on request



Dimensions



Proza Electronic Technology

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QiHangJiaYuan Plaza,Block A,12# Building,
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Specifications

Parameters	Units	Data
capacity	Nm	0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2
safe overload	%fs	120
ultimate overload	%fs	150
output signal	/	frequency signal of square wave of $\pm 6V$
frequency @ zero load	kHz	10
frequency @ clockwise fs	kHz	15
frequency @ counter-clockwise fs	kHz	5
accuracy	%fs	± 0.5
max. rotation speed	rpm	3000
speed measurement (option)	pulse/round	6~60
power supply	Vdc	± 15
load current	mA	< 10
response time	ms	0.1
storage temp. range	$^{\circ}C$	-40 ~ +80
operating temp. range	$^{\circ}C$	-30 ~ +80
compensated temp. range	$^{\circ}C$	0 ~ +40
temp. coefficient of zero	%fso/ $^{\circ}C$	± 0.2
temp. coefficient of span	%fso/ $^{\circ}C$	± 0.2
material	/	aluminum alloy
environment protection	/	IP 66
mechanical interface	/	refer to the dimensions drawing
electrical interface	/	5-pin connector with detachable mating socket and 3m PVC cable
unit weight	kg	~ 0.8

For customized capacity, please consult Proza.

Ordering Guide

ordering code:

model-capacity-other requests-(customized parameter, if any)

example:

PZTO21-1Nm-with speed measurement

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