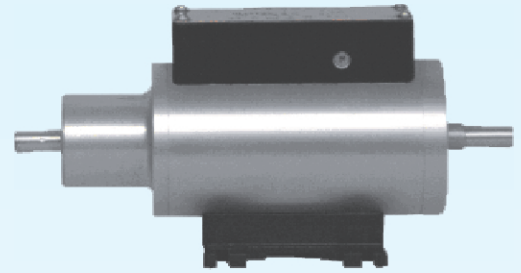


Model 1815 Rotary Torque Transducers

1815 series rotary torque transducers (RTT) are designed for low capacity torque measurements. These RTTs are powered through an inductive transformer. Featuring a bearing only contacts structure, the maintenance of 1815 transducers is kept minimal. The non contact nature of the signal transfer, which is independent from the rotation movement, makes 1815 transducers capable of operating under high speed for a long time. These RTTs are widely used to measure viscous forces.

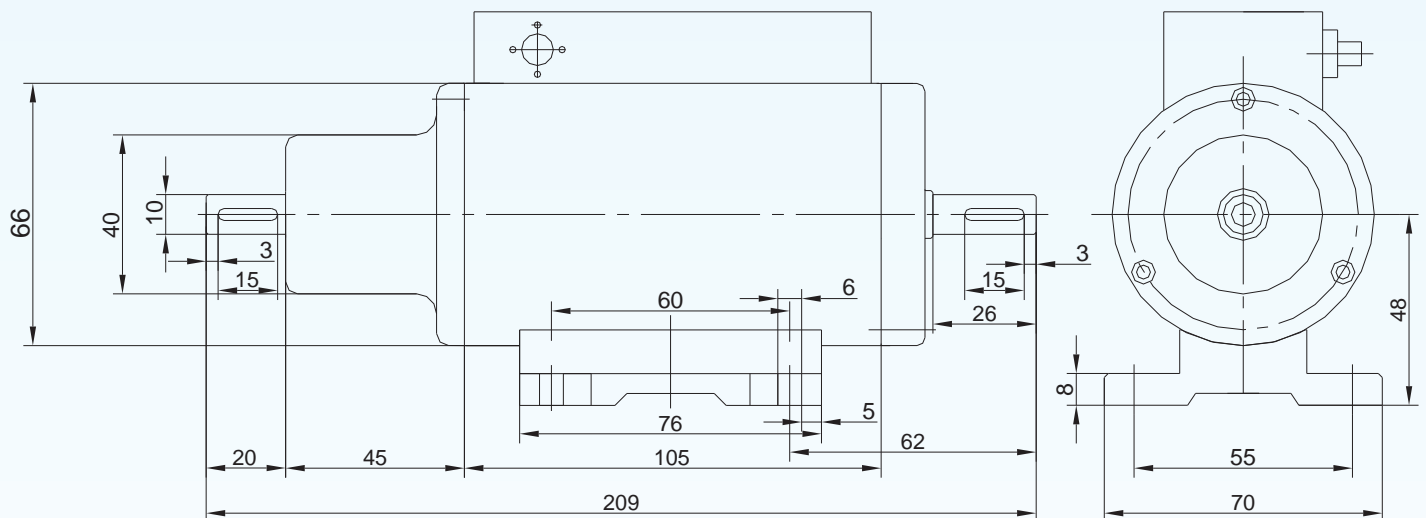
The measuring torque capacities of 1815 transducers span from 0.01 to 5 Nm with an accuracy of 0.5 %fs (fs=full scale). The output (o/p) signal is frequency signal 10 ± 5 kHz (square wave, 0-12 V). On request, these RTT can be coupled with a speed sensor and its tachometric wheel, measuring the rotational speed up to 60 pulse per round.



Features:

- 0.01, ..., 5 Nm capacity
- maximum rotation speed of 3000 rpm
- 0.5%fs measuring accuracy
- speed measurement available on request

Dimensions:



dimensions for capacity of 5 Nm

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Model 1815 Rotary Torque Transducers



Technical Data:

parameters	units	specifications
capacity	Nm	0.01, 0.02, 0.03, 0.05, 0.07, 0.1, 0.2, 0.3, 0.5, 0.7, 1, 2, 3, 5
safe load limit	%fs	120
ultimate overload	%fs	150
output signal		frequency signal of square wave of 0-12 V
frequency @ zero load	kHz	10
frequency @ clockwise fs	kHz	15
frequency @ counter-clockwise fs	kHz	5
accuracy	%fs	± 0.5
maximum 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	°C	-40 ~ +80
operating temp. range	°C	-30 ~ +80
compensated temp. range	°C	0 ~ 40
temp. coefficient of SPAN	%fs/°C	± 0.2
temp. coefficient of ZERO	%fs/°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 3 m PVC cable
unit weight	kg	~ 0.8

The listed specifications are subject to change without prior notice.

*: This function is available on request.

Ordering Code: model - capacity - other requests

example: 1815-1Nm-with speed measurement-detachable mating socket+3m Cable

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