

## TLH / TLHA - In-line Rotary Torque Transducers

### Product Overview

The TLH and TLHA torque transducers provide accurate torque measurement for tool testing applications across numerous industries, for speeds of up to 2,000rpm.

The TLH series have a slip-ring data transmission system and a quick-action clutch for ease of use. These quarter-inch hex-drive torque transducers are reliable and robust. The TLHA models also include angle measurement capabilities.

#### System Specifications:

Accuracy class:	0.1	Bridge resistance:	350 ohms
Sensitivity (1 Nm):	0.5 mV/V	Nominal Temp:	-10 to +60°C
Sensitivity (other ratings):	1 mV/V	Overload Capacity:	150% fs
Repeatability:	±0.05% fs	Durability of Brushes:	5 x 10 <sup>7</sup> .rev
Excitation Voltage:	2 to 12Vdc	Protection:	IP50
Excitation Voltage (angle):	5 Vdc	Speed/Angle Measurement (TLHA):	2X 360° impulse, 90° displaced 5V TTL

### Industrial Measurements

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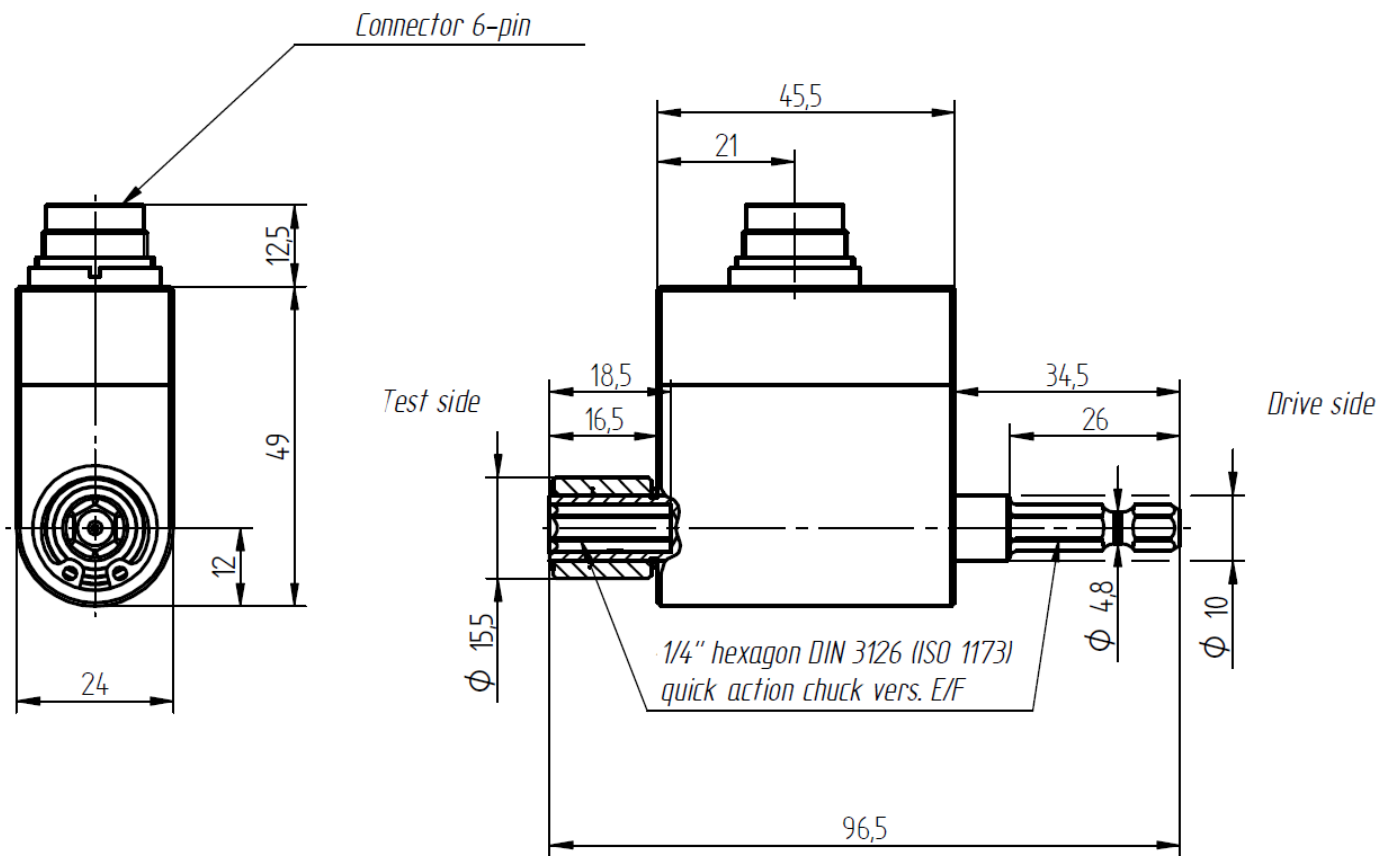
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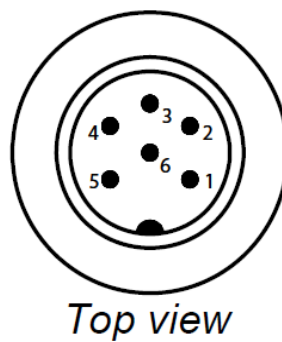
## Dimensions

TLH Torque Transducer



## Wiring Details

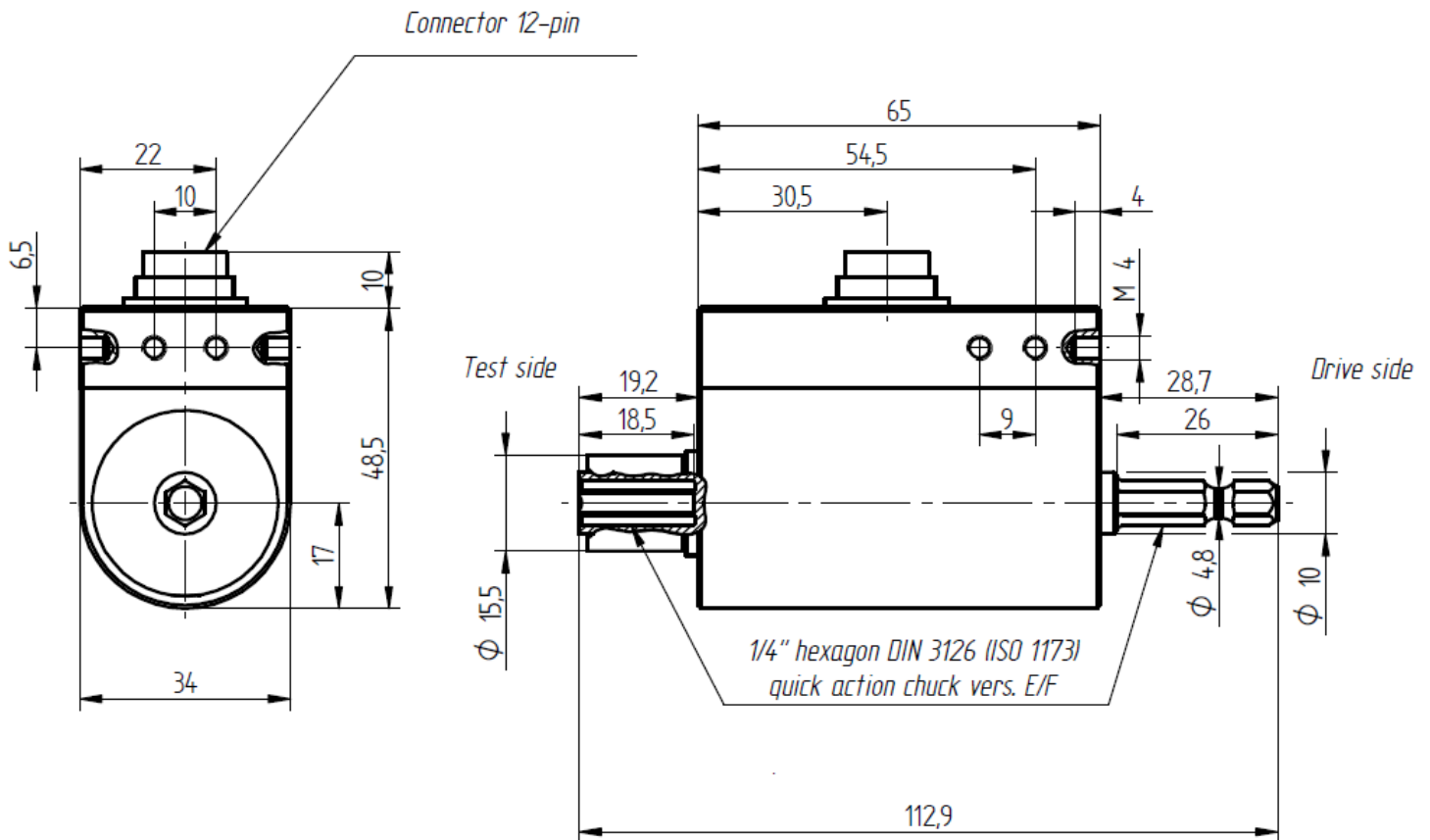
PIN	Designation
1	Excitation (-)
2	Excitation (+)
3	Shield
4	Signal (+)
5	Signal (GND)
6	Control Signal (Option)



Top view

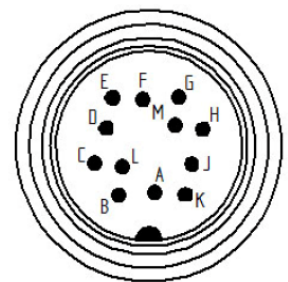
## Dimensions

### TLHA Torque Transducer



## Wiring Details

PIN	Designation		
A	Excitation (GND)	G	Signal angle A (5V TTL)
B	Excitation (+)	H	Signal angle B (5V TTL)
C	Signal (+)	J	Signal angle (GND)
D	Signal (GND)	K	Calibration control (Option)
E	Excitation angle (GND)	L	N/C
F	Excitation angle (5V)	M	Shield



Top view

# Providing custom torque solutions. Industrial Measurements.

**Founded in 1981, Industrial Measurements have been providing comprehensive torque measurement solutions and the design & manufacture of standard and bespoke torque transducers, for over 35 years.**

We pride ourselves on being able to provide a solution no matter what the challenge. As well our standard products such as in-line rotary torque transducers & static torque systems, we are devoted to designing and manufacturing completely bespoke torque systems to suit our customers needs.

As well as offering one of the largest ranges of torque transducers in the world, we also make specialised torque sensors, torque meters and load cells. We also provide a fully accredited torque calibration service, not just for our own products but for other manufacturers torque products too.

Whilst our head office is based in the UK, we have customers from all over the world, in particular in Western Europe and we are always looking to extend our customer base and offer support and technical advice to all current and future customers.

The knowledge and commitment of our dedicated employees has aided in building a quality customer base across the globe and we supply several industries including marine & offshore, steel plants, automotive, aerospace, power generation and much more.



For more information about the TLH range or for a quote, call +44 (0) 1455 25 14 88 or email [sales@indmeas.co.uk](mailto:sales@indmeas.co.uk).

## Providing custom torque solutions

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