

## TCE—Bi-Directional S Type Load Cell



### FEATURES

- Capacities 350—2000Kg
- Sealed to IP67.
- Tension & Compression use.
- Accuracy 0.05% RO.

### APPLICATIONS

- Test Machines.
- Process Control.
- Small Tanks & Silos.
- Hanging Scales.

### DESCRIPTION

The BD-ST-TCE provides a simple measuring device for tension and compression measurement. The TCE is produced from stainless steel and is a fully welded assembly.

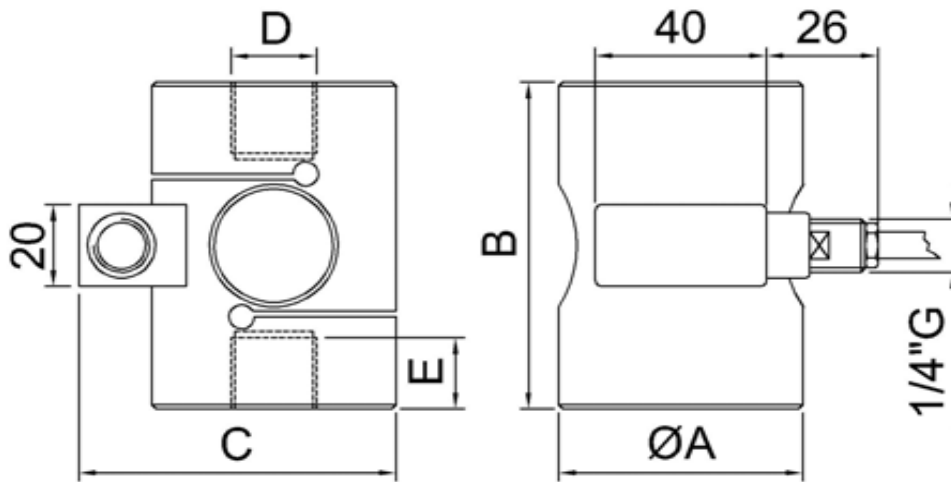
The TCE load cell has been designed for test rig applications where static and dynamic measurement is required.

### TYPICAL SPECIFICATION

PARAMETER	VALUE	UNITS
Capacities Range	0.. 350, 500, ,0..1, 2.5, 5, 7.5, 10, 20	kg Te
Rated Output	2.0 ±0.002%	mV/V
Linearity & non repeatability	0.05	±% of Rated Output
Zero Return after 30 minutes	0.05	±% of Applied Load
Zero Balance	1.0	±% of Rated Output
Temperature Range: Operating	-20 to +70	°C
Temperature Range: Compensated	-10 to +40	
Temperature Effect: On Output	0.03	±% of Rated Output/°C
Temperature Effect: On zero	0.01	±% of Rated Load/°C
Safe Overload	150	% of Rated Capacity
Ultimate Overload	300	% of Rated Capacity
Excitation: Recommended	10	Volts AC or DC
Excitation: Maximum	18	
Input Impedance	420 nominal	ohm
Output Impedance	350 nominal	ohm
Insulation Resistance	>5	GΩ at 50VDC
Deflection at Rated Capacity	NA	mm
Weight (approximate) :	NA	kg
Construction	Stainless Steel	
Environmental Protection	IP67	
Cable	5m 4 core screened	

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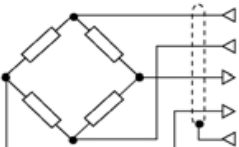
## OUTLINE DIMENSIONS in millimeters



MODEL CODE	LOAD	ØA	B	C	D	E
TCE350KG	350Kg	57	80	74.5	M20X1.5	17
TCE500KG	500Kg					
TCE1TE	1Te					
TCE2.5TE	2.5Te					
TCE5TE	5Te					
TCE5TEL	5Te	82	110	102	M30X2	20
TCE7.5TE	7.5Te					
TCE10TE	10Te				M42X3	30
TCE20TE	20Te					

NOTE: If the dimensions or specification do not suit, PCM have an in-house design and build service that should satisfy your requirements.

### WIRING DETAIL

Dynamometer	OUTPUT	CABLE
	EXCITATION+ EXCITATION - OUTPUT- OUTPUT+	Red Black White Yellow Shield*

\*Connected to the body of the load cell.

### LOADING MODE

