

Features

- Capacities 15tf – 200tf.
- Linearity $\pm 1\%$ RO.
- IP54/IP67 rating.
- Optional hardened washers.

Applications

- Heavy duty weighing.
- Monitoring bolt torque forces.
- Virtually all industries.



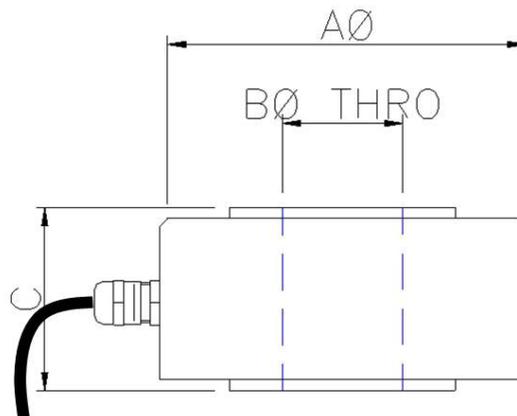
Description

The C-ALC is a large bobbin style design load cell produced from aluminium or stainless steel, depending on the capacity. PCM can also supply optional hardened washers for bolt torque monitoring projects.

Typical Specification

PARAMETER	VALUE		UNITS
Capacities Range	15, 20, 30, 50,	100, 200	tf
Rated Output	1-2		mV/V
Linearity and Non-Repeatability	1-2		$\pm\%$ of Rated Output
Zero Balance	5.0		$\pm\%$ of Rated Output
Input Impedance	700 \pm 10		Ω
Output Impedance	700 \pm 10		Ω
Insulation Resistance	>2		G Ω
Excitation <small>RECOMMENDED</small>	10		Volts AC or DC
Excitation <small>MAXIMUM</small>	15		Volts AC or DC
Temperature Range <small>OPERATING</small>	-10 to +80		$^{\circ}$ C
Temperature Range <small>COMPENSATED</small>	-10 to +70		$^{\circ}$ C
Temperature Effect <small>ON OUTPUT</small>	0.1		$\pm\%$ of Rated Output/ $^{\circ}$ C
Temperature Effect <small>ON ZERO</small>	0.02		$\pm\%$ of Rated Output/ $^{\circ}$ C
Mechanical Limit <small>SAFE OVERLOAD</small>	150		% of Rated Output
Mechanical Limit <small>ULTIMATE OVERLOAD</small>	300		% of Rated Output
Cable Length	5		m
Sensor Construction Material	Aluminium	Stainless Steel	-
Environmental Protection	IP54	IP67	-

Outline Dimensions in millimetres

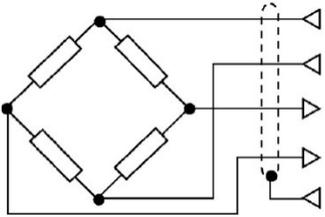


Annular Compression Load Cell

CAPACITY (tf)	ØA	ØB	C
15	152	95	98
20	152	95	98
30	152	95	98
50	152	95	98
100	152	95	98
200	152	95	98

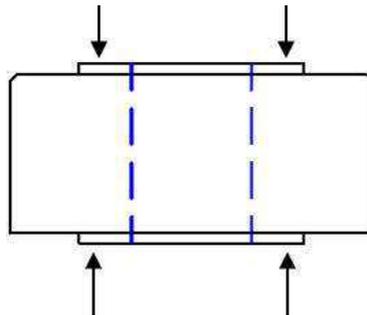
If the dimensions or specification do not suit, PCM has an in-house design team that should be able to satisfy your requirements.

Wiring Details

SCHEMATIC DIAGRAM	OUTPUT	CABLE
	EXCITATION +	RED
	EXCITATION -	BLUE
	OUTPUT +	GREEN
	OUTPUT -	YELLOW
	-----	SHIELD

7/0.2 4-core screened cable, polyurethane sheath. Shield connected to the body of the load cell.

Loading Mode



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