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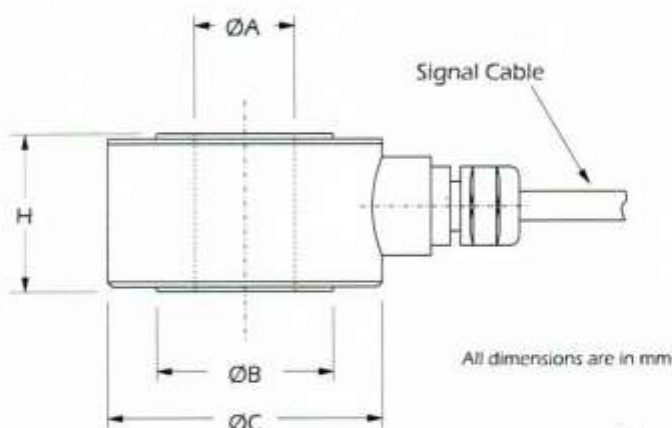
THROUGH HOLE LOAD CELL

Through hole load cells are designed for applications where there is a requirement for the force application component to pass through the centre of the load cell. The main application is to measure the tension in bolts for safety monitoring & control. The load cells can be supplied as a stand-alone product, or matched to an appropriate hand held or static display.

Specification

Range (kN)	12.5, 25, 35, 50, 100, 160, 200, 250, 300, 360, 540
Maximum overload range	150% of rated load
Output sensitivity	1.5mV/V nominal
Zero offset	≤±5% of rated load
Linearity	≤±1.5% of rated load (between 50% and 100% of rated load)
Repeatability	≤±1% (if mounting position remains unchanged) ≤±10% (if mounting position is changed)
Excitation voltage	10vdc recommended, 15vdc maximum
Bridge resistance	700Ω
Insulation resistance	>500MΩ @ 100vdc
Operating temperature range	-20 to +70°C
Compensated temperature range	-10 to +60°C
Zero temperature coefficient	≤±0.03% of rated load/°C (≤±0.01% of rated load/°C optional)
Span temperature coefficient	≤±0.03% of rated load/°C (≤±0.01% of rated load/°C optional)
Environmental protection level	IP66 (IP67 optional)
Connection type	2 metre long 4-core PVC cable, exiting via cable gland
Wiring connections	+ve supply: Red -ve supply: excitation: Blue -ve signal: Green -ve signal: excitation: Yellow

Dimensions



Rating (kN)	ØA	ØB	ØC	H	Weight (kg)	Resolution (kN)
12.5	6.1	10.4	25	12	0.05	0.05
25	8.2	14	25	12	0.05	0.1
35	10.2	17.7	32	12	0.09	0.2
50	12.2	21.3	38	15	0.13	0.2
100	16.3	29	48	20	0.25	0.5
160	20.3	36.3	50	20	0.28	0.5
200	22.3	40.4	55	25	0.38	1
250	24.3	43.5	60	25	0.51	1
300	27.3	49.6	63	25	0.51	1
360	30.5	54.9	76	30	0.9	2
540	36.5	66.1	88	30	1.2	2