



## Product Description

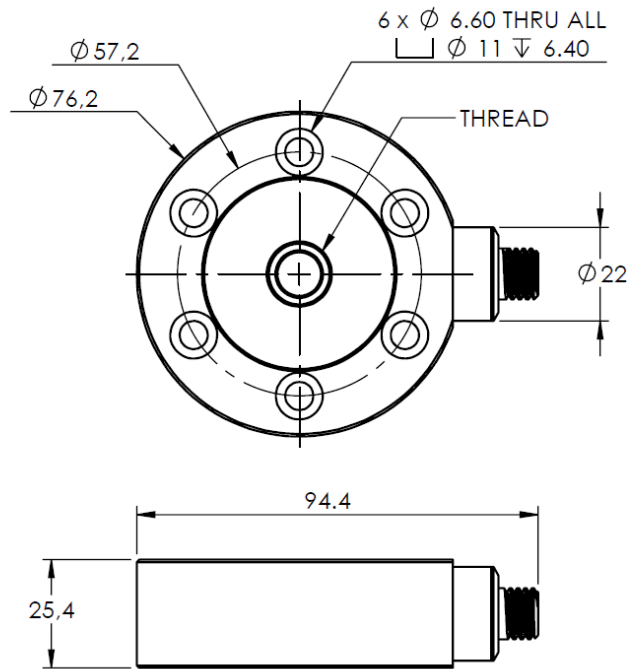
Compact Low Profile load cells are fully stainless steel, hermetically sealed load cells with a multi-beam internal structure, and fully integrated electronics to provide high level analogue or digital outputs. This type of load cell is easy to use for measuring tension or compression loads from 200N to 5kN, and is capable of rejecting side forces that would otherwise affect accuracy. This type also offers the user the ability to set the gain and offset (span and zero) electronically, to provide maximum flexibility for the user application.

## Specification

Parameter	Range	Notes
Rated load	200, 500, 1000, 2000, 5000N	
Proof load	150% of rated load	No effect on calibration
Ultimate load	200% of rated load	No structural failure (deformation only)
Deflection	<0.05 mm	Depends on rated load
Natural frequency	>1000 Hz	Depends on rated load
Output at rated load (RO)	1mV/V 1-9 V or 4-20mA or CAN or RS485	Select when ordering
Non-linearity	≤ 0.1% RO	
Hysteresis	≤ 0.1% RO	
Repeatability	≤ 0.03% RO	
Creep over 20 minutes	≤ 0.03% RO	
Output (span) tolerance	factory setting ±0.1% range ±50% RO	Adjustable via electronic interface. See user manual for details
Offset (zero balance)	factory setting ±1.0% range ±50% RO	Adjustable via electronic interface. See user manual for details
Output (span) temp coefficient	±0.005% RO / °C	
Offset (zero) temp coefficient	±0.005% RO / °C	
Compensated temp range	-10°C to +50°C	
Operating temp range	-40°C to +85°C	
Power supply	12 to 24 VDC, <40mA	
Insulation resistance	⇒5 Gohm @ 50 VDC	
Connector	Analog O/P: 8-pin M12 male, hermetic Digital O/P: 5-pin M12 male, hermetic	ESD safe, EMC compliant with EN61326-2-3:2006, CE marked.
Protection class	IP68	Fully stainless steel construction, laser welded.
Weight	750 g	

# Compact Low Profile Load Cell

## Dimensions (in mm)



Capacity (N)	Centre thread size (through)	Outer bolt size
100, 500	M8 x1.25	M6
1000, 2000, 5000	M12 x1.75	M6

## Wiring Codes

Pin	Voltage Output	Current Output	CAN	RS485
1	Supply (+)	Supply (+)	Shield	Supply (+)
2	Supply (-), TEDS GND	Supply (-), TEDS GND	Supply (+)	RS485_A
3	Signal (+)	Current loop (+)	Ground	Ground
4	Signal (-)	Current loop (-)	CAN_H	RS485_B
5	TEDS DATA/ Shunt calibration (Optional)	TEDS DATA/ Shunt calibration (Optional)	CAN_L	Shield
6	Calibration interface A	Calibration interface A	N/A	N/A
7	Calibration interface B	Calibration interface B	N/A	N/A
8	Calibration interface C	Calibration interface C	N/A	N/A
M12 pin layout				

Consult the user manual for further details and recommended wiring schemes.