

SENSOR SOLUTIONS

ENGINEERED IN INDIA
DESIGNED FOR TOMORROW

S Type Load Cell
S Type Bolted End Load Cell
Single Point Load Cell
Hermetically Sealed Single Point Load Cell
Clevis Load Cell
3 Axis Load Cell
6 Axis Load Cell
Pressure Gauge

PRODUCT GUIDE



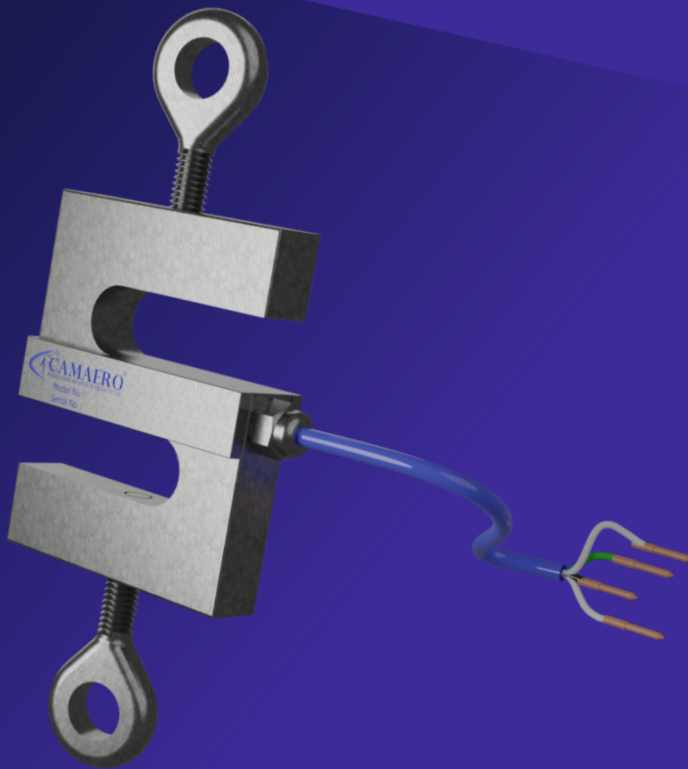
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S-TYPE LOAD CELL

METRIC MODELS

S beam load cell built for a variety of applications which include medical devices such as patient lifting systems and process weighing/general measurement uses for hopper and suspended tank weight measurement. Our compact S shaped load cell range is available in low and high capacity choices suitable for tight environments.



SPECIFICATIONS

Excitation	:	5 to 10 Vdc (15 Vdc maximum)
Output	:	2.0 mV/V \pm 0.25%
Linearity	:	0.03% FS
Hysteresis	:	0.02% FS
Repeatability	:	0.01% FS
Zero Balance	:	1% FS
Creep in 20 min	:	0.03% FS
Operating Temperature	:	-18 to 66°C (0 to 150°F)
Compensated Temperature	:	-18 to 66°C (0 to 150°F)
Thermal Effects	:	
Zero	:	0.0027% FS/°C
Span	:	0.0015% FS/°C
Dynamic load	:	70%
Maximum Safe Load	:	150%
Ultimate load	:	300%
Fatigue life	:	>1million
Deflection	:	0.3typ
Bridge Resistance Excitation:	:	380 Ω nominal
Bridge Resistance Sense	:	350 Ω nominal
Construction	:	17-4 PH stainless steel
Cable	:	3 m (10') 6-conductor shielded 22-gauge PVC

DESIGN HIGHLIGHTS

Capacity range from grams to thousands of pounds
Miniaturization capability amplified digital output

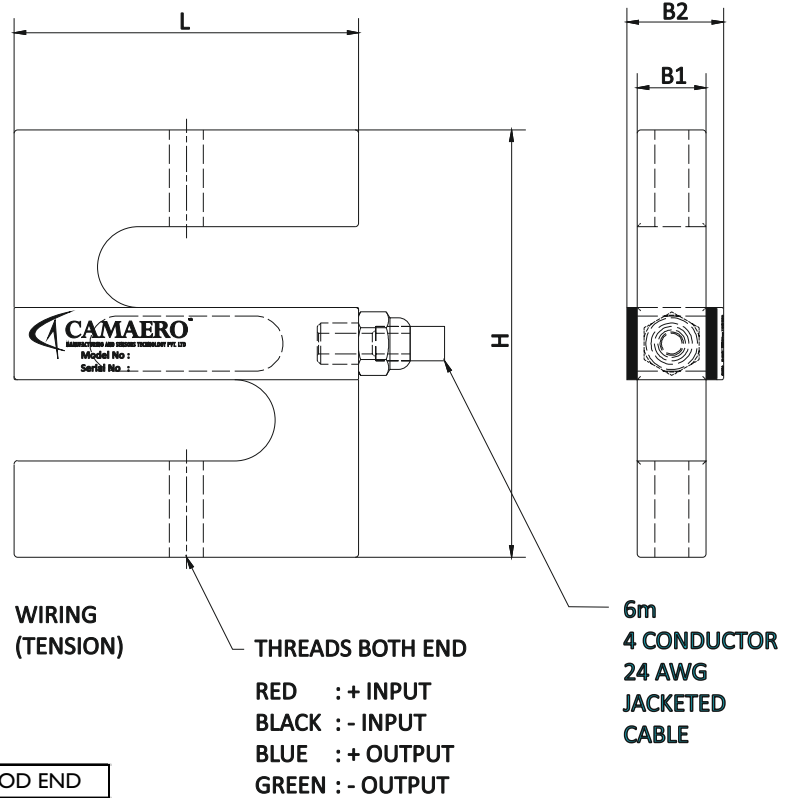


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PRODUCT DESCRIPTION

TENSION \ COMPRESSION
0-12.5kgf to 0-2500kgf
MATERIAL: STAINLESS STEEL
CALIBRATION CERTIFICATE SUPPLIED



CAPACITY	THREADS	DIMENSIONS: mm			
		L	H	B1	B2
kg	Metric				
12.5-250	M6X1, 6H	50	62	10	15
375-500	M10X1.5, 6H	50	72	16	21
750-1000	M12X1.75, 6H	60	72	20	25
1500	M20X1.5, 6H	72	80	25	30
2500	M20X1.5, 6H	76	108	25	30

CAPACITY		MODEL No.	DEFL	LOAD BUTTON	ROD END
kgf	lb		mm	MODEL No.	MODEL No.
12.5	28	CAMSLC-12	0.3	CAMSLB-M6	CAMSRE-M6
25	55	CAMSLC-25	0.2	CAMSLB-M6	CAMSRE-M6
50	110	CAMSLC-50	0.21	CAMSLB-M6	CAMSRE-M6
75	166	CAMSLC-75	0.19	CAMSLB-M6	CAMSRE-M6
100	221	CAMSLC-100	0.22	CAMSLB-M6	CAMSRE-M6
150	331	CAMSLC-150	0.19	CAMSLB-M6	CAMSRE-M6
250	552	CAMSLC-250	0.22	CAMSLB-M6	CAMSRE-M6
375	828	CAMSLC-375	0.29	CAMSLB-M10	CAMSRE-M10
500	1104	CAMSLC-500	0.29	CAMSLB-M10	CAMSRE-M10
750	1656	CAMSLC-750	0.19	CAMSLB-M12	CAMSRE-M12
1000	2208	CAMSLC-1000	0.22	CAMSLB-M12	CAMSRE-M12
1500	3311	CAMSLC-1500	0.25	CAMSLB-M20	CAMSRE-M20
2500	5519	CAMSLC-2500	0.2	CAMSLB-M20	CAMSRE-M20

S-TYPE LOAD CELL CABLE COLORS

COLORS	FUNCTION
RED	+EXCITATION
BLACK	- EXCITATION
WHITE	+SIGNAL
BLUE	- SIGNAL
GREEN	+ SENSE
YELLOW	- SENSE

**FOR CUSTOM DESIGN OF SENSORS
WHILE UPHOLDING THE ESSENTIAL
PARAMETERS THAT DRIVE THEIR
FUNCTIONALITY**



S-TYPE BOLTED END LOAD CELL

Well suited for industries such as food processing and pharmaceutical where constant exposure to moisture is expected during operation. Hermetic sealing and corrosion resistive material ensure reliable performance in challenging condition.



MATERIAL: STAINLESS STEEL
CALIBRATION CERTIFICATE SUPPLIED
SINGLE POINT LOAD CELL
CABLE COLORS

COLORS	FUNCTION
RED	+ EXCITATION
BLACK	- EXCITATION
WHITE	+ SIGNAL
BLUE	- SIGNAL
GREEN	+ SENSE
YELLOW	- SENSE

SPECIFICATIONS

Excitation	: 5 to 10 Vdc (15 Vdc maximum)
Output	: 2.0 mV/V \pm 0.25%
Linearity	: 0.03% FS
Hysteresis	: 0.02% FS
Repeatability	: 0.01% FS
Zero Balance	: 1% FS
Creep in 20 min	: 0.03% FS
Operating Temperature	: -18 to 66°C (0 to 150°F)
Compensated Temperature	: -18 to 66°C (0 to 150°F)
Thermal Effects	:
Zero	: 0.0027% FS/°C
Span	: 0.0015% FS/°C
Dynamic load	: 70%
Maximum Safe Load	: 150%
Ultimate load	: 300%
Fatigue life	: >1million
Deflection	: 0.3typ
Bridge Resistance Excitation:	380 Ω nominal
Bridge Resistance Sense	: 350 Ω nominal
Construction	: 17-4 PH stainless steel
Cable	: 3 m (10') 6-conductor shielded 22-gauge PVC

DESIGN HIGHLIGHTS

The design is in such a way that the **off-centre** error could be minimized and the platform size is spacious enough to accommodate the larger packets.



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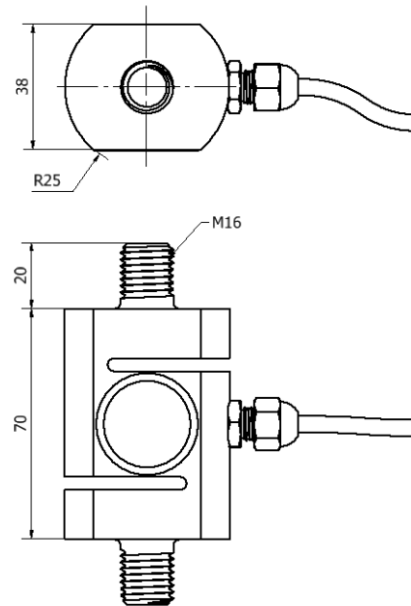
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PRODUCT DESCRIPTION

A Stype bolted end load cell is one of the major categories or types of load cell commonly found within the weighing industry. The defining characteristic of a single-point is its ability to accommodate off-centre loading. Typically, the load needs to be aligned with the cell to maintain accurate readings. If the weight moves off-axis, it introduces error. Single-points, due to their geometric design, allow for some flexibility, and can thus maintain accurate readings even if the weight is unevenly distributed.

This ability makes them perfect for use in platform scales where there can be some variability in load placement. Objects can be placed anywhere on the platform, and its weight will still be measured accurately. Practically this is of enormous value, as it removes the effects of human error in placement. Businesses can avoid the need for specialist equipment or training simply to get accurate readings. Furthermore, a scale can be build using a single cell, as opposed to needing a combination of cells placed at each corner.

PRODUCT DIMENSION (mm)



CAPACITY	MODEL NUMBER	END
10kg	S BE LC- 10	M10
25kg	S BE LC- 25	M10
50kg	S BE LC- 50	M10
100kg	S BE LC- 100	M12
250kg	S BE LC- 250	M12
500kg	S BE LC- 500	M16
1000kg	S BE LC- 1000	M16

WIRING

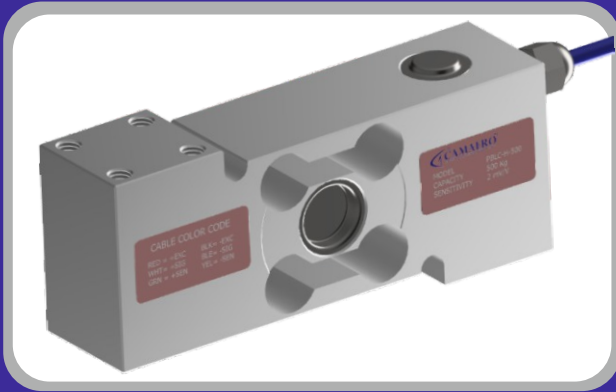
- The load cell is provided with a shielded, 6 Conductor cable (AWG 26).
- Cable jacket: Polyurethane
- Cable length: 3 m
- Cable diameter: 5.8 mm

**FOR CUSTOM DESIGN OF SENSORS
 WHILE UPHOLDING THE ESSENTIAL
 PARAMETERS THAT DRIVE THEIR
 FUNCTIONALITY**



HERMETICALLY SEALED SINGLE POINT LOAD CELL

Well suited for industries such as food processing and pharmaceutical where constant exposure to moisture is expected during operation. Hermetic sealing and corrosion resistive material ensure reliable performance in challenging condition.



MATERIAL: STAINLESS STEEL
CALIBRATION CERTIFICATE SUPPLIED
SINGLE POINT LOAD CELL
CABLE COLORS

COLORS	FUNCTION
RED	+ EXCITATION
BLACK	- EXCITATION
WHITE	+ SIGNAL
BLUE	- SIGNAL
GREEN	+ SENSE
YELLOW	- SENSE

SPECIFICATIONS

Excitation	: 5 to 10 Vdc (15 Vdc maximum)
Output	: 2.0 mV/V \pm 0.25%
Linearity	: 0.03% FS
Hysteresis	: 0.02% FS
Repeatability	: 0.01% FS
Zero Balance	: 1% FS
Creep in 20 min	: 0.03% FS
Operating Temperature	: -18 to 66°C (0 to 150°F)
Compensated Temperature	: -18 to 66°C (0 to 150°F)
Thermal Effects	:
Zero	: 0.0027% FS/°C
Span	: 0.0015% FS/°C
Dynamic load	: 70%
Maximum Safe Load	: 150%
Ultimate load	: 300%
Fatigue life	: >1million
Deflection	: 0.3typ
Bridge Resistance Excitation:	380 Ω nominal
Bridge Resistance Sense	: 350 Ω nominal
Construction	: 17-4 PH stainless steel
Cable	: 3 m (10') 6-conductor shielded 22-gauge PVC

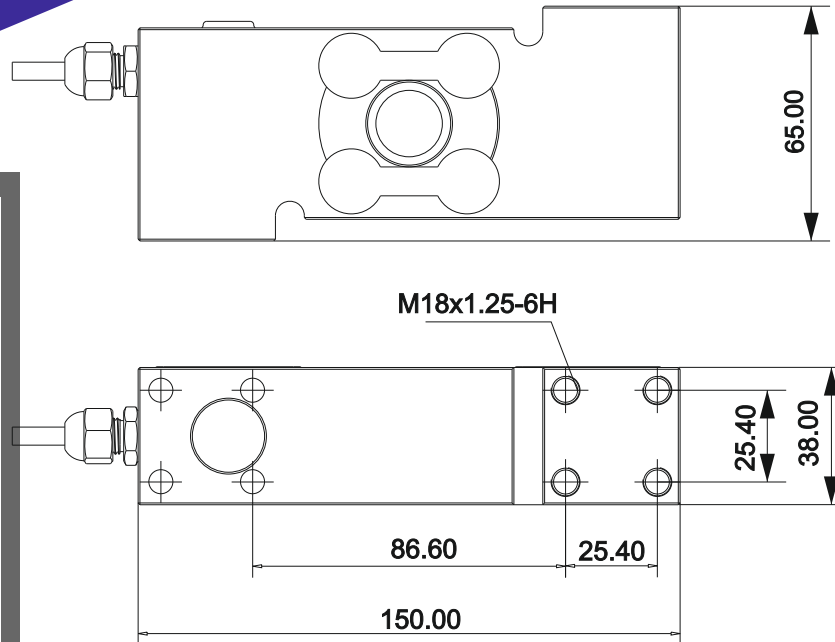
DESIGN HIGHLIGHTS

The design is in such a way that the off-centre error could be minimized and the platform size is spacious enough to accommodate the larger packets..



PRODUCT DESCRIPTION

PRODUCT DIMENSION (mm)



A single-point load cell is one of the major categories or types of load cell commonly found within the weighing industry. The defining characteristic of a single-point is its ability to accommodate off-centre loading. Typically, the load needs to be aligned with the cell to maintain accurate readings. If the weight moves off-axis, it introduces error. Single-points, due to their geometric design, allow for some flexibility, and can thus maintain accurate readings even if the weight is unevenly distributed.

This ability makes them perfect for use in platform scales where there can be some variability in load placement. Objects can be placed anywhere on the platform, and its weight will still be measured accurately. Practically this is of enormous value, as it removes the effects of human error in placement. Businesses can avoid the need for specialist equipment or training simply to get accurate readings. Furthermore, a scale can be build using a single cell, as opposed to needing a combination of cells placed at each corner.

CAPACITY	MODEL NUMBER	PLATTER SIZE
50Kg	SPBLC-H-50	500 x 500
100Kg	SPBLC-H-100	500 x 500
200Kg	SPBLC-H-200	500 x 500
500Kg	SPBLC-H-500	600 x 800
1000Kg	SPBLC-H-1000	800 x 1000

WIRING

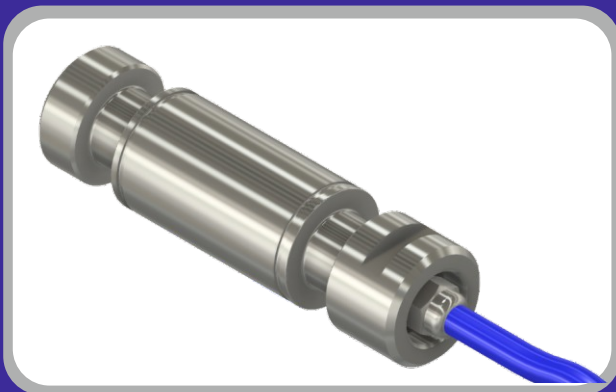
- The load cell is provided with a shielded, 6 conductor cable (AWG 26).
- Cable jacket: Polyurethane
- Cable length: 6 m
- Cable diameter: 5.8 mm

**FOR CUSTOM DESIGN OF SENSORS
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CLEVIS LOAD CELL IP67

Designed for applications where the amount of force exerted on a pinned joint must be measured. Applications can be found across many industries, including Robotics aerospace, automotive, manufacturing, and marine, to name a few.



**MATERIAL: STAINLESS STEEL
CALIBRATION CERTIFICATE SUPPLIED**

**CLEVIS LOAD CELL
CABLE COLORS**

COLORS	FUNCTION
RED	+ EXCITATION
BLACK	- EXCITATION
WHITE	+ SIGNAL
BLUE	- SIGNAL

SPECIFICATIONS

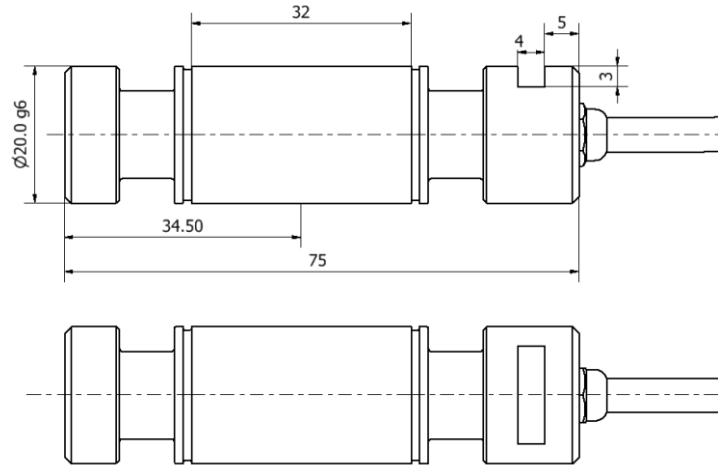
Excitation	: 5 to 10 Vdc (15 Vdc maximum)
Output	: 2.0 mV/V \pm 0.25%
Linearity	: 0.03% FS
Hysteresis	: 0.02% FS
Repeatability	: 0.01% FS
Zero Balance	: 1% FS
Creep in 20 min	: 0.03% FS
Operating Temperature	: -18 to 66°C (0 to 150°F)
Compensated Temperature	: -18 to 66°C (0 to 150°F)
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Dynamic load	: 70%
Maximum Safe Load	: 150%
Ultimate load	: 300%
Fatigue life	: >1million
Deflection	: 0.3typ
Bridge Resistance Excitation:	380 Ω nominal
Bridge Resistance Sense	: 350 Ω nominal
Construction	: 17-4 PH stainless steel
Cable	: 3 m (10') 6-conductor shielded 22-gauge PVC

DESIGN HIGHLIGHTS



PRODUCT DESCRIPTION

PRODUCT DIMENSION (mm)



Loadpins are force sensors which are being installed in applications for measuring dynamic, static or hoisting forces. Eg: the use of loadpins for the overload protection of cranes, creating load measuring systems, building load limitation systems and to optimize the service life of hoists.

In the market of force sensors, loadpins are also known as force measuring bolts, force measuring studs, axis cells or force sensing bolts. Loadpins are designed for high to very high loads. Because of the differences and variety between applications, these kind of loadcells forced us to adapt a different marketing approach.

Robotics and specifically industria robotics and automation requires high precision or accurate load sensors for

- Gripping
- Grinding
- Deburring
- Polishing
- Product assembly
- Packaging products
- Quality/Product testing

CAPACITY	MODEL NUMBER	BEARING ID
50kg	C LC-S- 50	20
100kg	C LC-S- 100	20
250kg	C LC-S- 200	20
500kg	C LC-S- 500	30
1000kg	C LC-S- 1000	40
2000kg	C LC-S- 2000	50

WIRING

- The load cell is provided with a shielded,6Conductor cable (AWG 26).
- Cable jacket: Polyurethane
- Cable length: 1.5 m
- Cable diameter: 5.8 mm

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