



'S' Beam

Range of Alloy Steel Load Cells



Features

- 50kg to 2,000kg capacities.
- For tension loading - refer to installation instructions.
- Robust design for harsh industrial applications.
- Inbuilt strength 150% maximum overload.
- Plated tool steel, with sealing up to IP66.
- Designed and manufactured in the UK with a 5 year warranty.

Options

- ATEX for Zone 0, 1 and 2 Hazardous Areas.
- OIML C3 approval.
- Digital with RS485 ASCII, Modbus, CAN and CANopen outputs.
- High temperature version up to 160°C.
- Range of industrial instrumentation and weight controllers.

Description

The 'S' Beam range of alloy steel load cells are designed for harsh industrial applications. The load cells are sealed against the ingress of moisture and dust. The 'S' beam load cell is also available with ATEX certification.

ENGINEERING SPECIFICATIONS

'S' BEAM ALLOY STEEL RANGE OF LOAD CELLS

Specifications

Full Scale Output: 3.00mV/V Nominal
 Creep (in 20 minutes) 0.02% maximum
 Non-Linearity: 0.03% maximum
 Hysteresis: 0.05% maximum
 Non-Repeatability: 0.02% maximum
 Compensated temperature range: -10°C ... +40°C
 Operating temperature range:
 -40°C ... +80°C (-35°C...60°C for ATEX)
 Load cell material: 817M40
 Protection: IP66
 Safe Overload: 150%
 Insulation Resistance: 2000 MΩ

For ATEX Category 1 - II 1G

Ex ia IIC T6 Ga (-35°C ≤ Ta ≤ +60°C)

For ordering suffix the part number with 'X' i.e.

AW500/0200X (see certificate BAS99ATEX2067).

Note: ATEX gas (G) certification only

Zero Balance: ±1% F. S.
 Supply Voltage: 5-12 V (DC or AC)
 Max Voltage: 15V
 Output Resistance: 350±5Ω
 Input Resistance: 380±30Ω

PART NUMBERS 50kg - 2,000kg

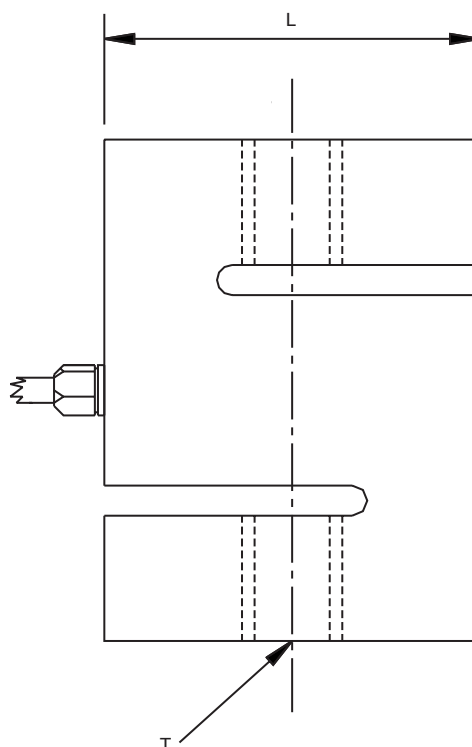
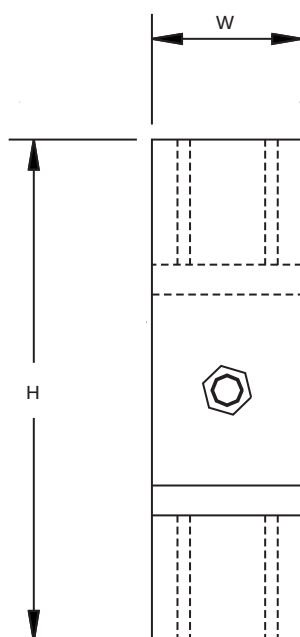
Capacity	Plated tool steel Part Number	Capacity	Plated tool steel Part Number
50 kg	AW500/00050	750kg	AW500/00750
100kg	AW500/00100	1,000 kg	AW500/01000
250kg	AW500/00250	1,500 kg	AW500/01500
500kg	AW500/00500	2,000 kg	AW500/02000

Colour Code:

Positive Excitation - RED
 Negative Excitation - BLUE
 Positive Signal - GREEN
 Negative Signal - YELLOW

Cable: 6 metres
 4 core screened

CAPACITY (kg)	H	W	L	T
50 & 100	75	20	50	M12 x 1.75p
250, 500 & 750	75	25	50	M12 x 1.75p
1,000, 1,500 & 2,000	100	30	50	M20 x 2.50p



All dimensions in mm

As a safety precaution additional overload restraints may be required

Refer to installation documents before use