



Ultra Shear Beam

range of Load Cells.



Features

- Capacities from 250kg to 10,000kg.
- For platform, hoppers, tanks and scales.
- Robust design for harsh industrial, chemical and food applications.
- Inbuilt strength - 150% maximum overload.
- Fully welded stainless steel (IP68), for wash down environments.
- Designed and manufactured in the UK with a 5 year warrantee.

Options

- ATEX option for Zone 0, 1, 2, 20, 21 and 22 hazardous areas.
- OIML C3 approval.
- Digital Version with RS485 ASCII, Modbus, CAN and CANopen outputs.
- High temperature option up to 160°C.
- Range of weighing assemblies and weight instrumentation.

Description

The Ultra range of load cells are designed for harsh wash down industrial applications. The load cell is manufactured from stainless steel, fully welded and sealed to prevent moisture ingress. The range is designed for use in platforms, Hopper and Tank weighing applications.

ENGINEERING SPECIFICATIONS

ULTRA SHEAR BEAM LOAD CELL

Specifications

Full Scale Output:	2.00 mV/V Nominal	For ATEX Category 1 -  II 1GD
Creep (in 20 minutes)	0.02% maximum	For ordering suffix the part number with 'X' i.e. AW420/0100X
Non-Linearity:	0.03% maximum	(see certificate BAS99ATEX2067)
Hysteresis:	0.05% maximum	
Non-Repeatability:	0.02% max	
Compensated temperature range:	-10°C ...+40°C	
Operating temperature range:	-40°C ...+80°C (-35°C...60°C for ATEX)	For ATEX Category 3 -  II 3GD
Load cell material:	stainless steel 17-4 PH	For ordering suffix the part number with 'XD' i.e. AW420/0100XD
Protection:	up to IP68 (ATEX IP66)	(see certificate Baseefa09ATEX0147X)
Safe Overload:	150%	
Insulation Resistance:	2000 MΩ	
Zero Balance:	1% F.S.	Cable: 6 Metres, 4 Core screened.
Supply Voltage:	5-12 V (DC or AC)	
Max Voltage:	15V	Colour code:
Output Resistance:	350±5Ω	RED +ve excitation BLUE -ve excitation
Input Resistance:	380Ω±30Ω	GREEN +ve signal YELLOW -ve signal

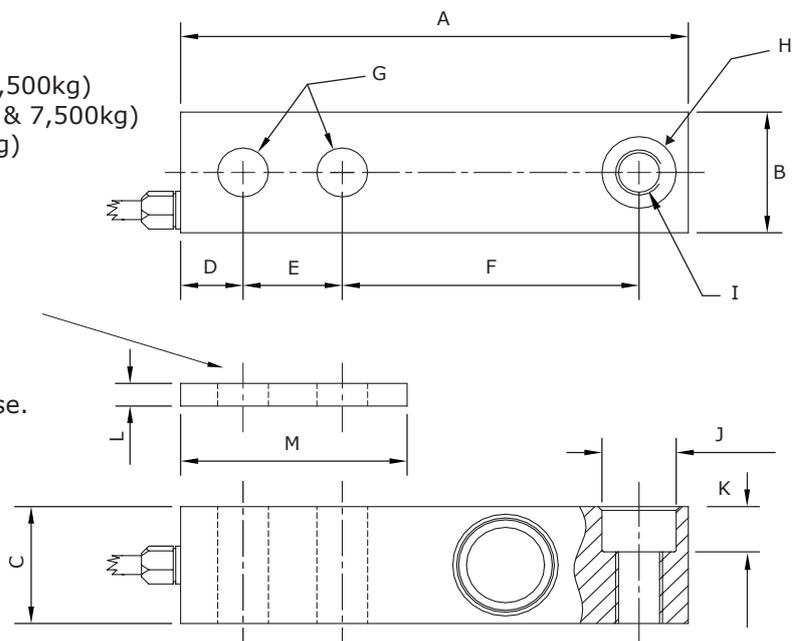
250Kg - 10,000Kg

Capacity	Part Number	A	B	C	D	E	F	G	H	I	J	K	L	M
250kg	AW420/00250													
500kg	AW420/00500													
1,000kg	AW420/01000	130	32	31	16	24.5	76	13	∅19	M12x1.75	19	12	6	58
1,500kg	AW420/01500													
2,000kg	AW420/02000													
2,500kg	AW420/02500													
5,000kg	AW420/05000	176	38	38	25	38	95	17	n/a		n/a	n/a	6	80
7,500kg	AW420/07500	176	38	38	25	38	95	20	n/a	M20x2.5	n/a	n/a	6	80
10,000kg	AW420/10000	225	50	50	25	50	124	26	n/a	∅26	n/a	n/a	6	100

Spacer Plate Dummy loadcell

AW910/00003	AW901/00003 (250kg-2,500kg)
AW910/00004	AW901/00004 (5,000kg & 7,500kg)
AW910/00005	AW901/00005 (10,000kg)

Refer to installation documents before use.



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