APPLIED
WEIGHING
INTERNATIONAL

Compact

range of Weighing Assemblies.

upto
IP68

Features

- 20kg to 2,000kg capacities.
- For platform, hoppers, tanks and Silo weighing.
- Robust hygenic design for harsh industrial applications.
- Inbuilt strength - 150% maximum overload.
- Anit-vibration / anti shock load pad.
- Designed and manufactured in the UK with a 5 year warranty.

Options

- ATEX 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 version up to 160°C.
- Range of industrial instrumentation and weight controllers.

Description

The Compact range of Tank and Vessel Weighing assemblies are designed for harsh industrial weighing applications. The assembly ensures precise, reliable and safe operation. ATEX versions are available for use in hazardous areas.

ENGINEERING SPECIFICATIONS

ULTRA COMPACT RANGE - STAINLESS STEEL LOAD CELL WITH STAINLESS STEEL ASSEMBLY

Specifications

Full Scale Output:	2.00mV/V Nominal
Creep (in 20 minutes)	0.02% maximum
Non-Linearity:	0.03% maximum
Hysterisis:	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)	
Load cell material:	Stainless steel 17-4 PH
Assembly:	304 stainless steel
Protection:	up to IP68 (ATEX IP66)
Safe Overload:	150%
Insulation Resistance:	2000 MΩ
Zero Balance:	1% F.S.
Supply Voltage:	5-12 V (DC or AC)
Max Voltage:	15V

For ATEX Category 1 - Ⓔx II 1GD
Ex ia IIC T6 Ga (-35°C≤Ta≤+60°C)
Ex ta IIIC T85°C T_{500} 107°C Da IP66(-35°C≤Ta≤60°C)
For ordering suffix the part number with 'X' i.e.
AW337/0200X (see certificate BAS99ATEX2067)
250kg - 2,500kg assembly only.

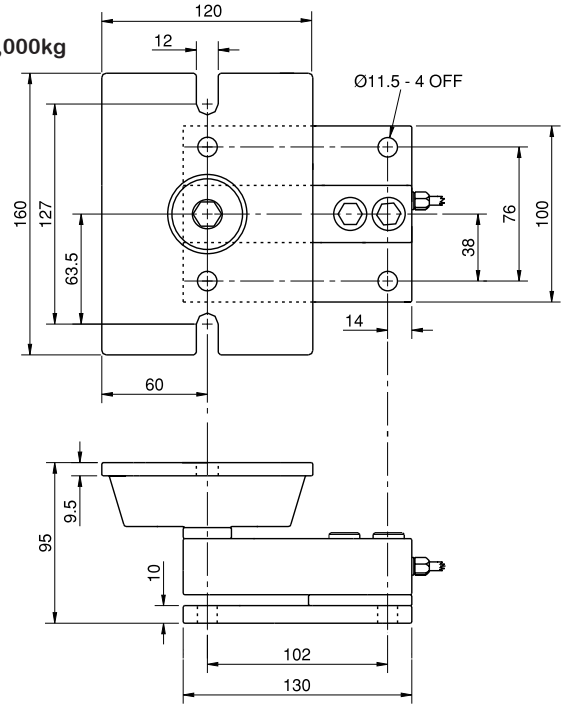
For ATEX Category 3 - Ⓔx II 3GD
Ex nA IIC T6 Gc (-35°C≤Ta≤+60°C)
Ex tc IIIC T85°C Dc IP66 (-35°C≤Ta≤+60°C)
For ordering suffix the part number with 'XD' i.e.
AW337/0200XD (see certificate Baseefa09ATEX0147X)
250kg - 2,500kg assembly only.

Cable: 6 metres, 4 core screened. Colour code:
RED +ve excitation BLUE -ve excitation
GREEN +ve signal YELLOW -ve signal

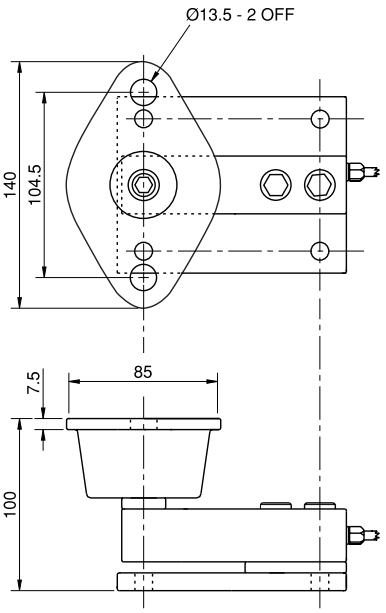
250Kg - 2,000Kg

Assembly-Weighing Capacity	Compact stainless steel assembly & Ultra loadcell part Number:	Weighing Capacity	Ultra loadcell only Part Number:	Ultra Compact only to 500kg (no cell)
250 kg	AW337/00250	250 kg	AW420/00250	AW335/00250
500 kg	AW337/00500	500 kg	AW420/00500	
1000 kg	AW337/01000	1,000 kg	AW420/01000	**Ultra Compact only to 2,000kg (no cell)**
1500 kg	AW337/01500	1,500 kg	AW420/01500	AW335/02000
2000 kg	AW337/02000	2,000 kg	AW420/02000	

1,000kg to 2,000kg



250kg & 500kg



All dimensions in mm
Refer to installation documents before use.

In the interest of continued product development, Applied Weighing reserves the right to alter product specifications without prior notice. **APPLIED WEIGHING INTERNATIONAL LIMITED, Caversham, Reading, England RG4 5AF**
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ENGINEERING SPECIFICATIONS

SHEAR BEAM COMPACT RANGE - TOOL STEEL LOAD CELL WITH STAINLESS STEEL ASSEMBLY

Specifications

Full Scale Output:	3.00mV/V Nominal
Creep (in 20 minutes)	0.02% maximum
Non-Linearity:	0.03% maximum
Hysterisis:	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)	
Load cell material:	Plated EN24T steel
Assembly:	304 stainless steel
Protection:	up to IP66 (ATEX IP66)
Safe Overload:	150%
Insulation Resistance:	2000 MΩ
Zero Balance:	1% F.S.
Supply Voltage:	5-12 V (DC or AC)
Max Voltage:	15V

For ATEX Category 1 - Ⓔx II 1G (GAS ONLY)
Ex ia IIC T6 Ga (-35°C≤Ta≤+60°C)

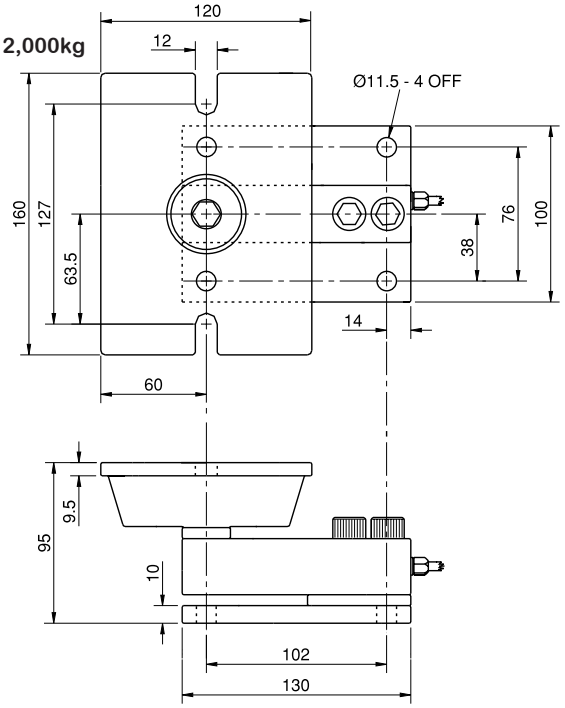
For ordering suffix the part number with 'X' i.e. AW331/0200X (see certificate BAS99ATEX2067) 250kg - 2,000kg assembly only.

Cable: 6 metres, 4 core screened. Colour code:
RED +ve excitation BLUE -ve excitation
GREEN +ve signal YELLOW -ve signal

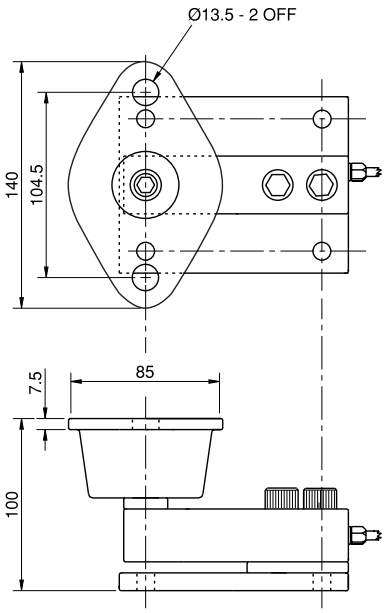
500Kg - 2,000Kg

Assembly-Weighing Capacity	Compact stainless steel assembly & shear beam loadcell:	Weighing Capacity	Shear beam loadcell only part Number:	Compact only to 500kg (no cell) / Compact only to 2,000kg (no cell)
500 kg	AW331/00500	500 kg	AW410/00500	AW335/00250
1000 kg	AW331/01000	1,000 kg	AW410/01000	
1500 kg	AW331/01500	1,500 kg	AW410/01500	
2000 kg	AW331/02000	2,000 kg	AW410/02000	AW335/02000

1,000kg to 2,000kg



500kg



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ENGINEERING SPECIFICATIONS

CHALLENGER COMPACT RANGE - STAINLESS STEEL LOAD CELL WITH STAINLESS STEEL ASSEMBLY

Specifications

Full Scale Output:	2.00mV/V Nominal
Creep (in 20 minutes)	0.02% maximum
Non-Linearity:	0.03% maximum
Hysterisis:	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)	
Load cell material:	Stainless steel 17-4 PH
Assembly:	304 stainless steel
Protection:	up to IP68 (ATEX IP66)
Safe Overload:	150%
Insulation Resistance:	2000 MΩ
Zero Balance:	1% F.S.
Supply Voltage:	5-12 V (DC or AC)
Max Voltage:	15V

For ATEX Category 1 - Ⓔx II 1G (GAS ONLY)
Ex ia IIC T6 Ga (-35°C≤Ta≤+60°C)

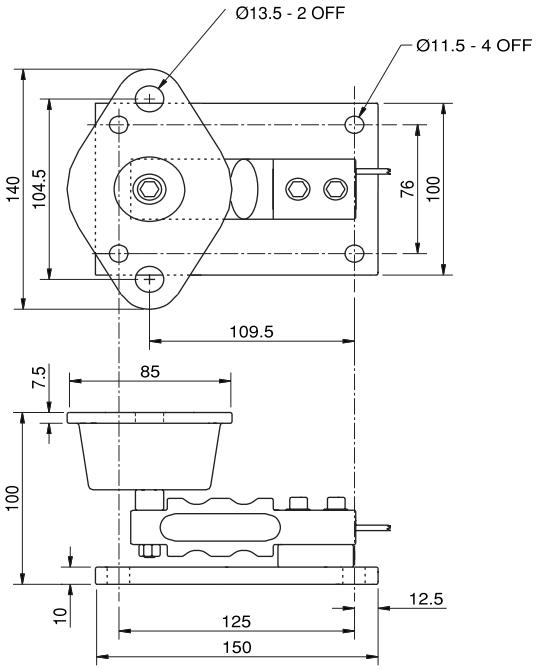
For ordering suffix the part number with 'X' i.e. AW336/0002X (see certificate BAS99ATEX2067)
20kg - 200kg assembly only.

Cable: 6 metres, 4 core screened. Colour code:
RED +ve excitation BLUE -ve excitation
GREEN +ve signal YELLOW -ve signal

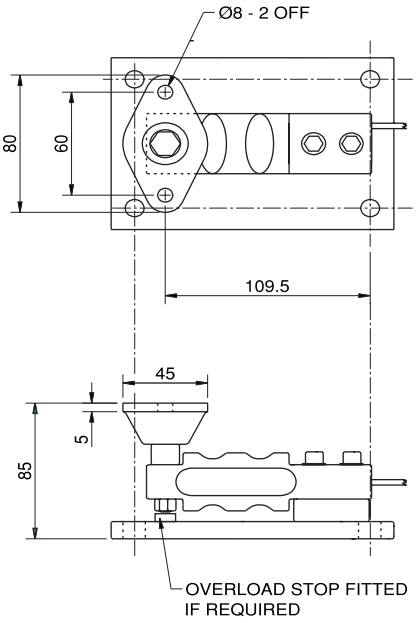
20Kg - 250Kg

Assembly-Weighing Capacity	Compact assembly & Challenger loadcell part Number:	Weighing Capacity	Challenger loadcell only Part Number:	Compact only to 500kg (no cell)
20 kg	AW336/00020	20 kg	AW430/00020	AW334/00250
50 kg	AW336/00050	50 kg	AW430/00050	
100 kg	AW336/00100	100 kg	AW430/00100	**Compact only to 2,000kg (no cell)**
150 kg	AW336/00150	150 kg	AW430/00150	AW334/00020
200 kg	AW336/00200	200 kg	AW430/00200	

50kg to 200kg



20kg



All dimensions in mm

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ENGINEERING SPECIFICATIONS

CHALLENGER PRO COMPACT - STAINLESS STEEL LOAD CELL WITH STAINLESS STEEL ASSEMBLY

Specifications

Full Scale Output:	2.00mV/V Nominal
Creep (in 20 minutes)	0.02% maximum
Non-Linearity:	0.03% maximum
Hysterisis:	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)	
Load cell material:	Stainless steel 17-4 PH
Assembly:	304 stainless steel
Protection:	up to IP68 (ATEX IP66)
Safe Overload:	150%
Insulation Resistance:	2000 MΩ
Zero Balance:	1% F.S.
Supply Voltage:	5-12 V (DC or AC)
Max Voltage:	15V

For ATEX Category 1 - Ⓔx II 1GD
Ex ia IIC T6 Ga (-35°C≤Ta≤+60°C)
Ex ta IIIC T85°C T_{500} 115°C Da IP66(-35°C≤Ta≤60°C)
For ordering suffix the part number with 'X' i.e.
AW339/0020X (see certificate BAS99ATEX2067)
10kg - 200kg assembly only.

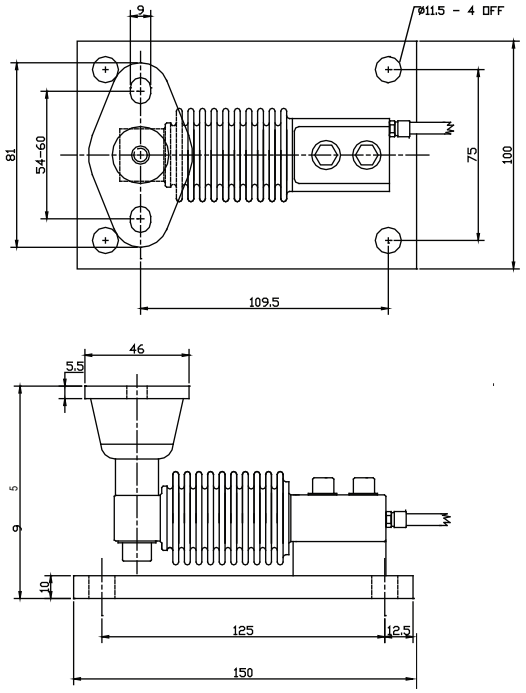
For ATEX Category 3 - Ⓔx II 3GD
Ex nA IIC T6 Gc (-35°C≤Ta≤+60°C)
Ex tc IIIC T90°C Dc (-35°C≤Ta≤+60°C)
For ordering suffix the part number with 'XD' i.e.
AW339/0020XD (see certificate Baseefa09ATEX0147X)
10kg - 200kg assembly only.

Cable: 6 metres, 4 core screened. Colour code:
RED +ve excitation BLUE -ve excitation
GREEN +ve signal YELLOW -ve signal

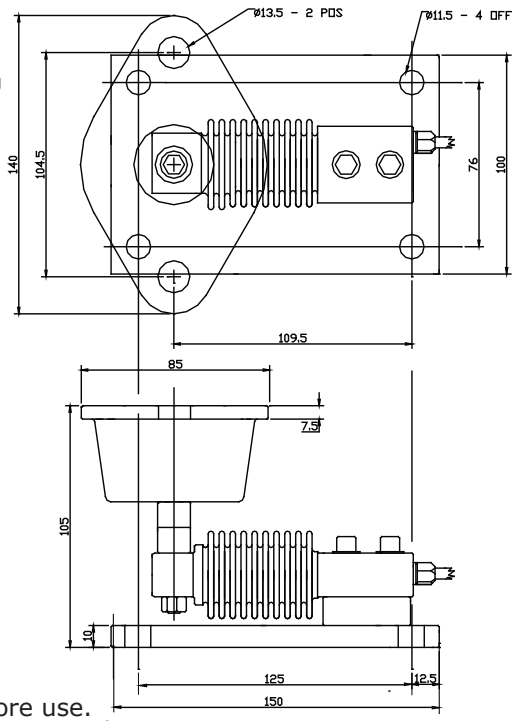
10Kg - 250Kg

Assembly-Weighing Capacity	Compact assembly & Challenger Pro loadcell part Number:	Weighing Capacity	Challenger Pro loadcell only Part Number:	Compact only to 50kg (no cell)
10 kg	AW339/00010	10 kg	AW435/00010	AW335/00250
20 kg	AW339/00020	20 kg	AW435/00020	
50 kg	AW339/00050	50 kg	AW435/00050	Compact only to 200kg (no cell)
100 kg	AW339/00100	100 kg	AW435/00100	
200 kg	AW339/00200	200 kg	AW435/00200	AW334/00250

20kg



50kg to 200kg



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