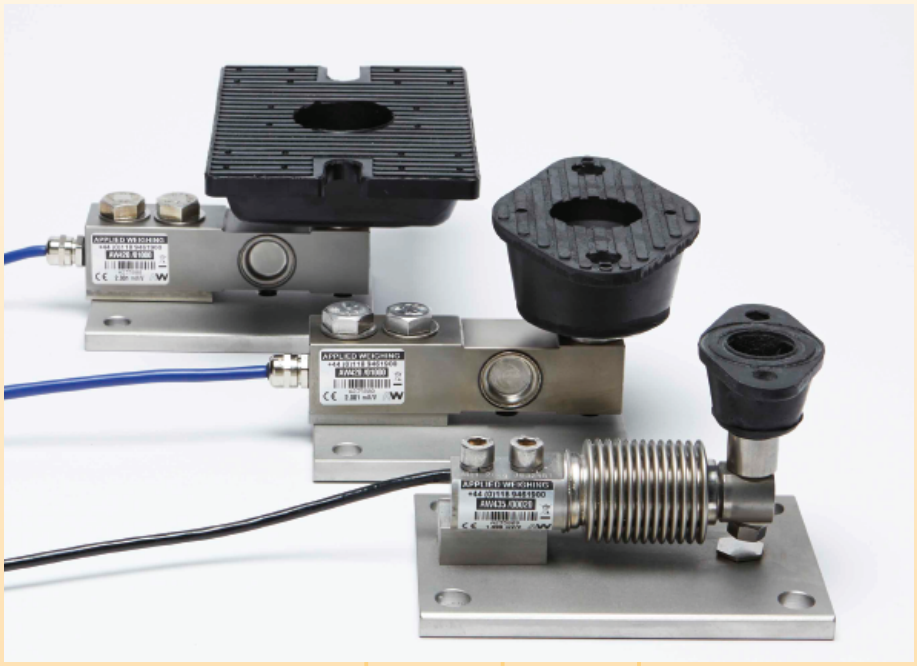
APPLIED
WEIGHING
INTERNATIONAL

Compact

Range of Weighing Assemblies



OIML

CE

Ex

upto IP68

Features

- 20kg to 2,000kg capacities.
- For Hoppers, Tanks and Vessel weighing.
- Robust hygenic design for harsh industrial applications.
- Inbuilt strength 150% maximum overload.
- Anit-vibration rubber 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, with option for use in ATEX Hazardous Areas.

ENGINEERING SPECIFICATIONS

ULTRA COMPACT RANGE - STAINLESS STEEL LOAD CELL AND COMPONENTS WITH RUBBER MOUNT

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% maximum
Compensated temperature range:	
-10°C to +40°C	
Operating temperature range:	
-40°C to +80°C (-35°C to +60°C for ATEX)	
Load cell material:	Stainless steel 17-4 PH
Assembly:	304 stainless steel
Protection:	up to IP68 (ATEX IP66)

For ATEX Category 1 - ⟨Ex⟩ II 1GD
For ordering suffix the part number with 'X' i.e.
AW337/0200X (see certificate BAS99ATEX2067)

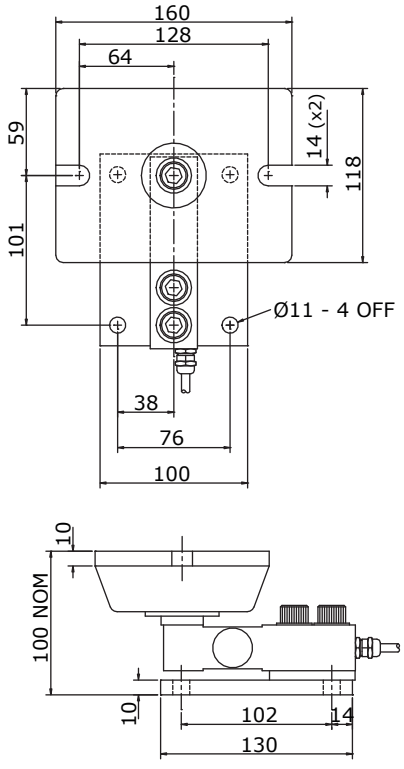
For ATEX Category 3 - ⟨Ex⟩ II 3GD
For ordering suffix the part number with 'XD' i.e.
AW337/0200XD (see certificate Baseefa09ATEX0147X)

Safe Overload:	150%
Insulation Resistance:	2000 MΩ
Supply Voltage:	5-12 V (DC or AC)
Max Voltage:	15V
Zero Balance:	±1% F. S.

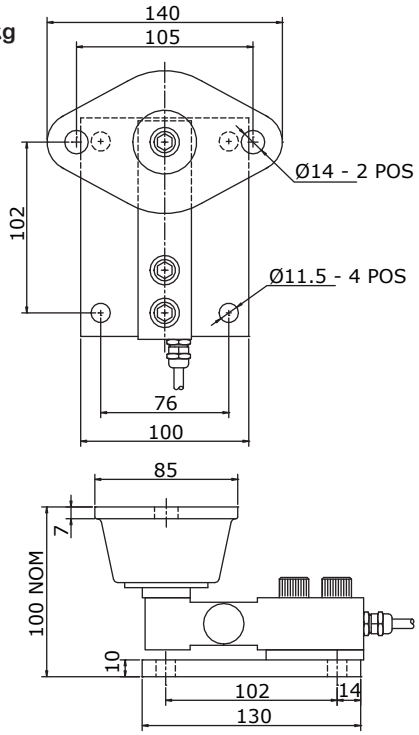
PART NUMBERS 250kg - 2,000kg

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



Colour Code:
Positive Excitation - RED
Negative Excitation - BLUE
Positive Signal - GREEN
Negative Signal - YELLOW

Cable: 6 metres
4 core screened

All dimensions in mm
Refer to installation documents before use

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ENGINEERING SPECIFICATIONS

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

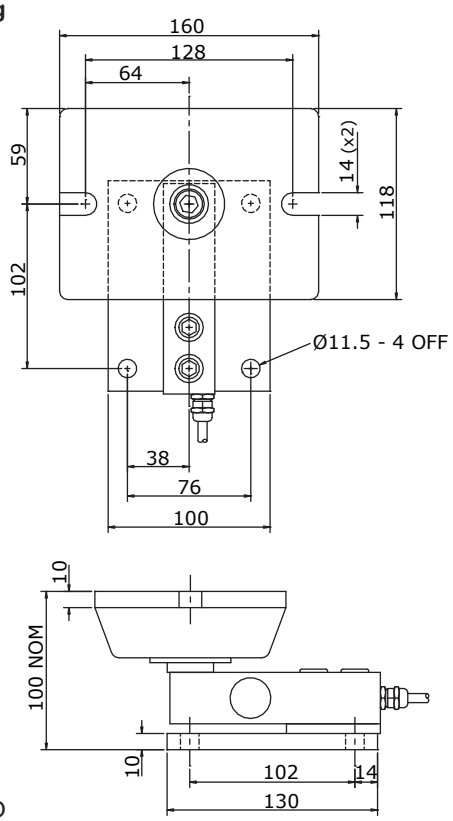
Specifications

Full Scale Output:	3.00mV/V Nominal	Load cell material:	Plated EN24T steel
Creep (in 20 minutes)	0.02% maximum	Assembly:	304 stainless steel
Non-Linearity:	0.03% maximum	Protection:	up to IP66 (ATEX IP66)
Hysterisis:	0.05% maximum	Safe Overload:	150%
Non-Repeatability:	0.02% maximum	Insulation Resistance:	2000 MΩ
Compensated temperature range:		Zero Balance:	±1% F. S.
-10°C to +40°C		Supply Voltage:	5-12 V (DC or AC)
Operating temperature range:		Max Voltage:	15V
-40°C to +80°C			

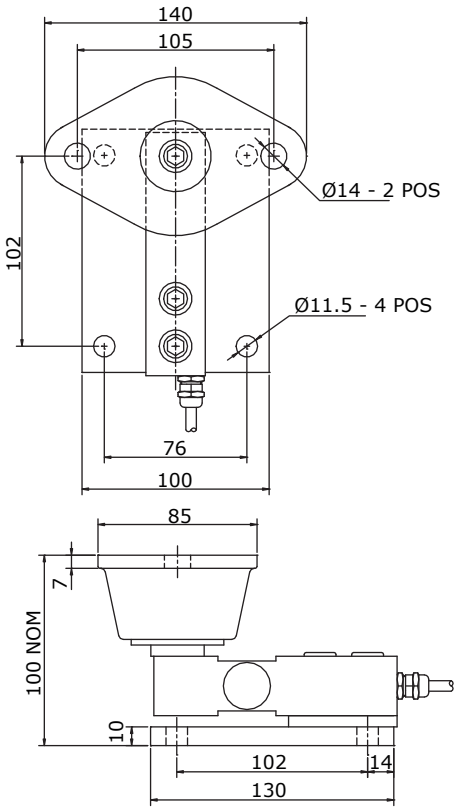
PART NUMBERS 500kg - 2,000kg

Assembly-Weighing Capacity	Compact stainless steel assembly & shear beam loadcell:	Weighing Capacity	Shear beam loadcell only part Number:	Compact only to 500kg (no cell)
500 kg	AW330/00500	500 kg	AW410/00500	AW335/00250
1000 kg	AW330/01000	1,000 kg	AW410/01000	
1500 kg	AW330/01500	1,500 kg	AW410/01500	**Compact only to 2,000kg (no cell)**
2000 kg	AW330/02000	2,000 kg	AW410/02000	AW335/02000

1,000kg to 2,000kg



500kg



Colour Code:
Positive Excitation - RED
Negative Excitation - BLUE
Positive Signal - GREEN
Negative Signal - YELLOW

Cable: 6 metres
4 core screened

All dimensions in mm
Refer to installation documents before use

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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% maximum

Compensated temperature range:
-10°C to +40°C
Operating temperature range:
-40°C to +80°C (-35°C to +60°C for ATEX)

Load cell material:	Stainless steel 17-4 PH
Assembly:	304 stainless steel

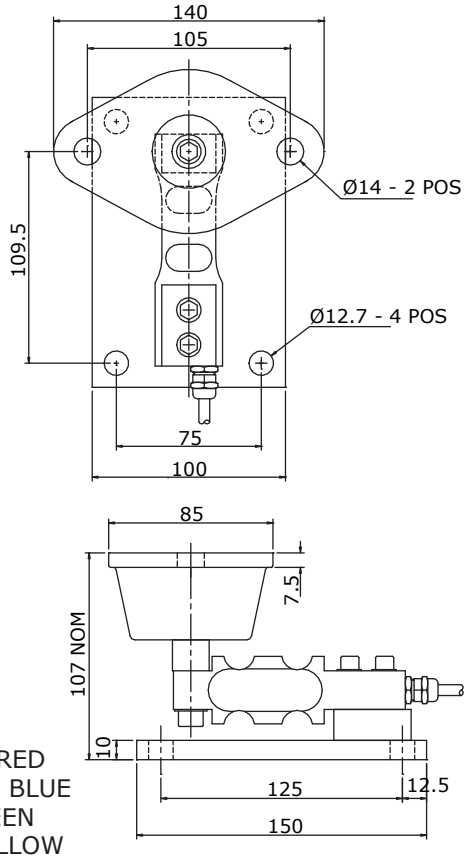
For ATEX Category 1 - Ⓔx II 1G (GAS ONLY)
For ordering suffix the part number with 'X' i.e.
AW336/0002X (see certificate BAS99ATEX2067)

Protection:	up to IP65
Safe Overload:	150%
Insulation Resistance:	2000 MΩ
Zero Balance:	±1% F. S.
Supply Voltage:	5-12 V (DC or AC)
Max Voltage:	15V

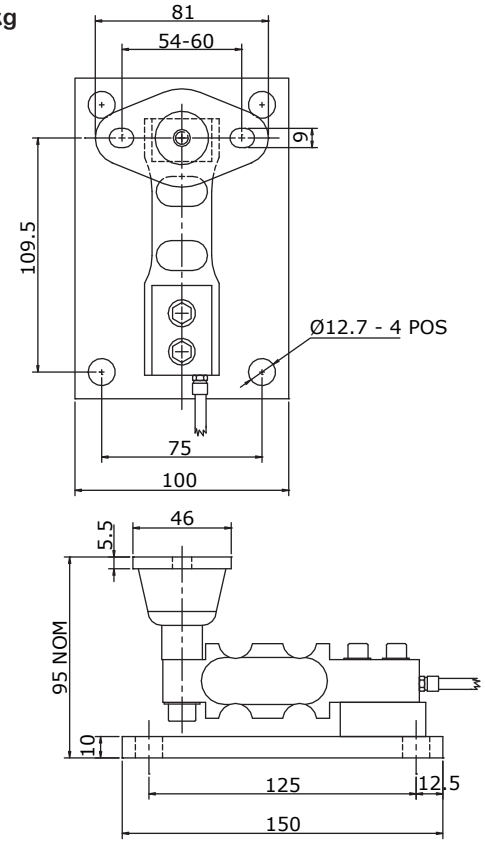
PART NUMBERS 20kg - 200kg

Assembly-Weighing Capacity	Compact assembly & Challenger loadcell part Number:	Weighing Capacity	Challenger loadcell only Part Number:	Compact only to 20kg (no cell)
20 kg	AW336/00020	20 kg	AW430/00020	AW335/00020
50 kg	AW336/00050	50 kg	AW430/00050	
100 kg	AW336/00100	100 kg	AW430/00100	Compact only to 200kg (no cell)
150 kg	AW336/00150	150 kg	AW430/00150	
200 kg	AW336/00200	200 kg	AW430/00200	AW335/00200

50kg to 200kg



20kg



Colour Code:
Positive Excitation - RED
Negative Excitation - BLUE
Positive Signal - GREEN
Negative Signal - YELLOW

Cable: 6 metres
4 core screened

All dimensions in mm
Refer to installation documents before use

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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% maximum
Compensated temperature range: -10°C to +40°C	
Operating temperature range: -40°C to +80°C (-35°C to +60° for ATEX)	
Load cell material:	Stainless steel 17-4 PH
Assembly:	304 stainless steel
Protection:	up to IP68 (ATEX IP66)

For ATEX Category 1 - Ex II 1GD
For ordering suffix the part number with 'X' i.e. AW339/0020X (see certificate BAS99ATEX2067)

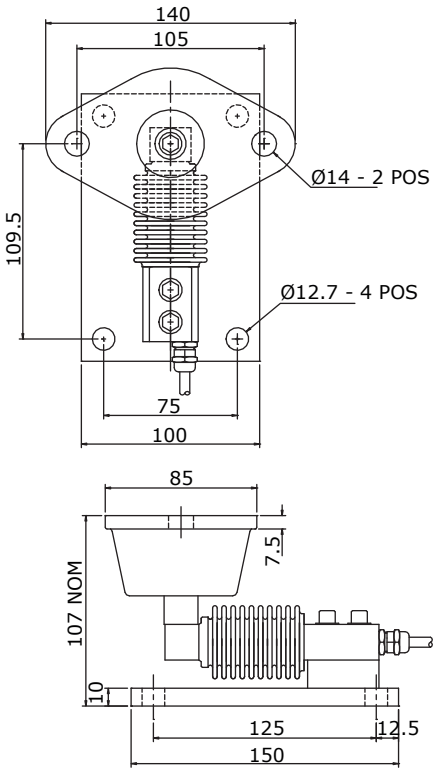
For ATEX Category 3 - Ex II 3GD
For ordering suffix the part number with 'XD' i.e. AW339/0020XD (see certificate Baseefa09ATEX0147X)

Safe Overload:	150%
Insulation Resistance:	2000 MΩ
Zero Balance:	±1% F. S.
Supply Voltage:	5-12 V (DC or AC)
Max Voltage:	15V

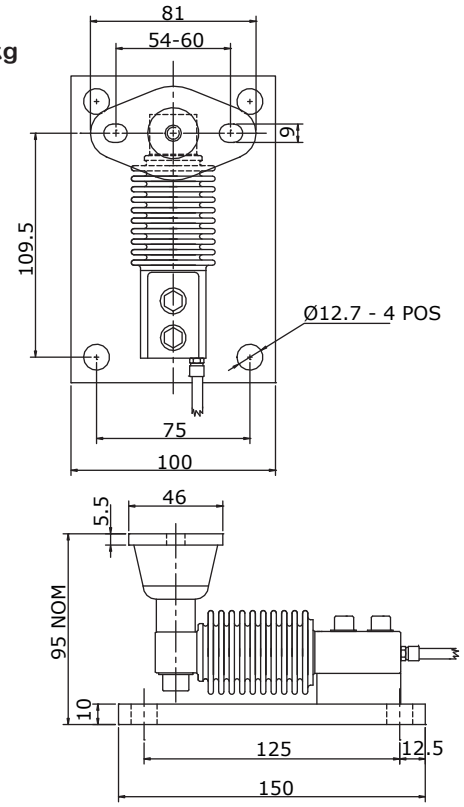
PART NUMBERS 10kg - 200kg

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

50kg to 200kg



20kg



Colour Code:
Positive Excitation - RED
Negative Excitation - BLUE
Positive Signal - GREEN
Negative Signal - YELLOW

Cable: 6 metres
4 core screened

All dimensions in mm
Refer to installation documents before use

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