



Challenger Pro

range of Load Cells



Features

- 10kg to 200kg capacities.
- For low capacity weighing of Hoppers, Tanks and Vessels.
- Robust design for harsh industrial applications.
- Inbuilt strength - 150% maximum overload.
- Stainless steel construction, with sealing up to IP66.
- Designed and manufactured in the UK with a 5 year warrantee.

Options

- ATEX for Zone 0, 1, 2, 20, 21 and 22 hazardous areas.
- Range of stainless steel weighing assemblies.
- 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 Challenger Pro range of load cells are designed for harsh industrial weighing applications. Uses include Hopper, Tank and Platform Scales. The load cell is supplied in fully welded stainless steel, with option for use in ATEX Hazardous Areas.

ENGINEERING SPECIFICATIONS

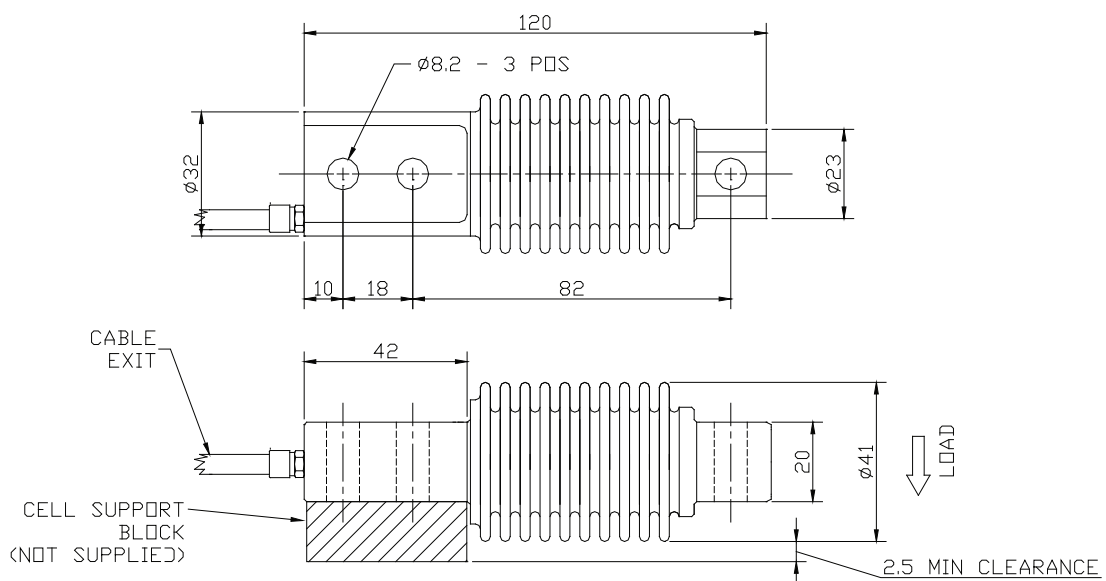
CHALLENGER PRO LOAD CELL

Specifications

Full Scale Output:	2.00mV/V Nominal	For ATEX Category 1 -  II 1GD
Creep (in 20 minutes)	0.02% maximum	Ex ia IIC T6 Ga (-35°C ≤ Ta ≤ +60°C)
Non-Linearity:	0.03% maximum	
Hysteresis:	0.05% maximum	For ordering suffix the part number with 'X' i.e.
Non-Repeatability:	0.02% max	AW435/0010X
Compensated temperature range:	-10°C ... +40°C	For ATEX Category 3 -  II 3GD
Operating temperature range:	-40°C ... +80°C (-35°C...60°C for ATEX)	Ex ia IIC T6 Ga (-35°C ≤ Ta ≤ +60°C)
Load cell material:	Stainless steel 17-4 PH	For ordering suffix the part number with 'XD' i.e.
Protection:	up to IP65	AW435/0010XD
Safe Overload:	150%	
Insulation Resistance:	2000 MΩ	
Zero Balance:	1% F.S.	Cable: 6 metres, 4 (6) 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
		GREEN +ve signal YELLOW -ve signal

20Kg - 250Kg

Capacity	Stainless steel load cell	Dummy stainless steel load cell AW435/00000
10kg	AW435/00010	
20kg	AW435/00020	
50kg	AW435/00050	
100kg	AW435/00100	
200kg	AW435/00200	
		stainless steel load cell support block AW910/00010



All dimensions in mm

Refer to installation documents before use.

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