Double Ended Shear Beam

FEATURES

- Capacity 500, 1000, 1500 and 2000 kN
- Other capacities on request
- Low profile
- High long-term stability and repeatability
- Operating temperature range –40 to +150°C
- 15 m special cable with connector for direct connecting to the load cell
- Zinc-plated steel
- 6-wire circuit (6 + 2 wires with option temperature monitoring)
- IP67
- **OPTIONS**
  - Temperature monitoring via integrated temperature sensor (2-wire circuit)
  - Indicator which changes the color if a too high temperature as reached

APPLICATIONS

- Silo and hopper weighing
- Tundish weighing
- Various applications in steel mills and foundries
- Industrial applications

DESCRIPTION

The model DSA-R is a low profile double shear beam load cell, ideally suited for applications in harsh environments.

Due to the special design, the DSA-R load cell is insensitive against side loading and other interfering effects.

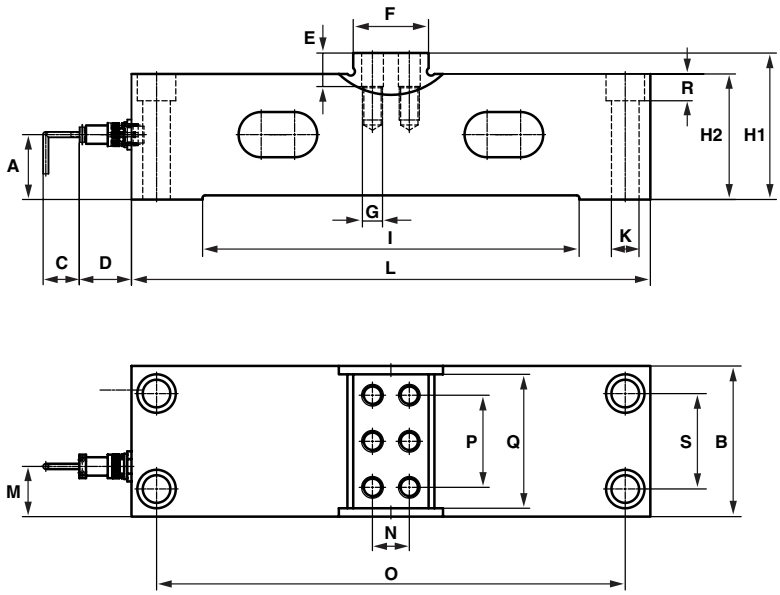
Because of the high operating temperature range of –40 up to +150°C, the DSA-R load cell is suitable for use in steel mills and foundries.

Very easy to maintain—cable will be connected via plug-and-socket connection.

Due to the high repeatability and high long-term stability, the load cell supplies very good results, even after perennial use.

IP67 gives an excellent protection against dust and moisture.

OUTLINE DIMENSIONS IN MILLIMETERS



Dim.	50t	100t	150t	200t
A	45	54	66	75
B	120	140	160	180
C	≥40	≥ 40	≥40	≥40
D	120	120	120	120
E	32	38	38	40
F	80	90	90	90
G	M20x30	M24x36	M24x36	M24x40
H1	130	143	158	175
H2	105	118	133	150
I	340	370	410	450
K	26	30	33	33
L	450	500	560	620
M	57	62	69	76
N	40	44	44	44
O	398	444	500	560
P	75	90	102	110
Q	110	130	150	160
R	26	29	32	32
S	68	80	94	114

BLH NOBEL
A VPG Brand

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SPECIFICATIONS				
PARAMETER	**VALUE**			
Rated load (RL)	500 kN	1000 kN	1500 kN	2000 kN
Rated output (C)	1.0 mV/V			
Total error	±0.1% of C			
Creeping (30 min)	±0.05% of C			
Temperature effect: on zero	±0.005% of C/°C			
Temperature effect: on output	±0.003% of C/°C			
Nominal temperature range	–10 to +100°C			
Operating temperature range	–40 to +150°C			
Storage temperature range	–50 to +180°C			
Safe load*	200% RL			
Ultimate load*	>450% RL			
Ultimate sideload*	100% RL			
Recommended excitation	10 VDC or VAC			
Maximym supply voltage	36 VDC or VAC			
Input impedance	750 Ω ±15 Ω			
Output impedance	700 Ω ±10 Ω			
Insulation impedance	>2000 MΩ			
Construction	steel, zinc-plated			
Weight	40 kg	56 kg	87 kg	119 kg
Environmental protection	IP67			

* Referring to recommended loading point

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly.

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