HBS | Bending Beam

DESCRIPTION

The HBS is a fully weld-sealed stainless steel bending type Load Cell. It is designed for platform scales, belt scales, tank scales and hopper scales etc. Approved to OIML.
It is available with Ex ia IIC T4 approval in hazardous areas. (only for capacities of 10~500kg)

Specifications

Capacity		kgf	10, 20, 50, 100, 200, 500, 1K, 2K	
Rated Output Zero Balance		mV / V mV / V	2.0 ± 0.005 0.0 ± 0.02	
Accuracy Class		-	D3	C3
Non-Linearity Hysteresis Combined Error Repeatability Creep for 30min. Return for 30min. Resolution		% R.O. % R.O. % R.O. % R.O. % R.O. % R.O. -	≤ 0.03 ≤ 0.03 ≤ 0.03 ≤ 0.01 ≤ 0.03 ≤ 0.03 ≤ 1/3000	≤ 0.02 ≤ 0.02 ≤ 0.02 ≤ 0.01 ≤ 0.017 ≤ 0.017 ≤ 1/5000
Division		mV / V	0.00067	0.0002
Temperature Effect on	- Zero Value - Output Value	%/10°C %/10°C	≤ 0.028 ≤ 0.015	≤ 0.014 ≤ 0.011
Excitation	- Recommended - Maximum	V V	10 15	
Resistance	- Input - Output - Insulation	Ω Ω MΩ	400 ± 20 350 ± 3.5 > 2000	
Compensated Temerature Range Operating Temperature Range		°C °C	-10 to +40 -30 to +80	
Material & Plate		-	Stainless Steel, Buffing	
Cable Specification		-	Ø5.4 x 4P x 3M (Urethane)	
Safety Overload		% R.L.	150%R.L.	
Platform Size		mm	Without Limit	

Features

- Max capacities of 10~2,000kg
- OIML C3 approval (OIML R60)
- Fully welded, Stainless steel
- Braided shield 4 wire cable with urethane-jacket

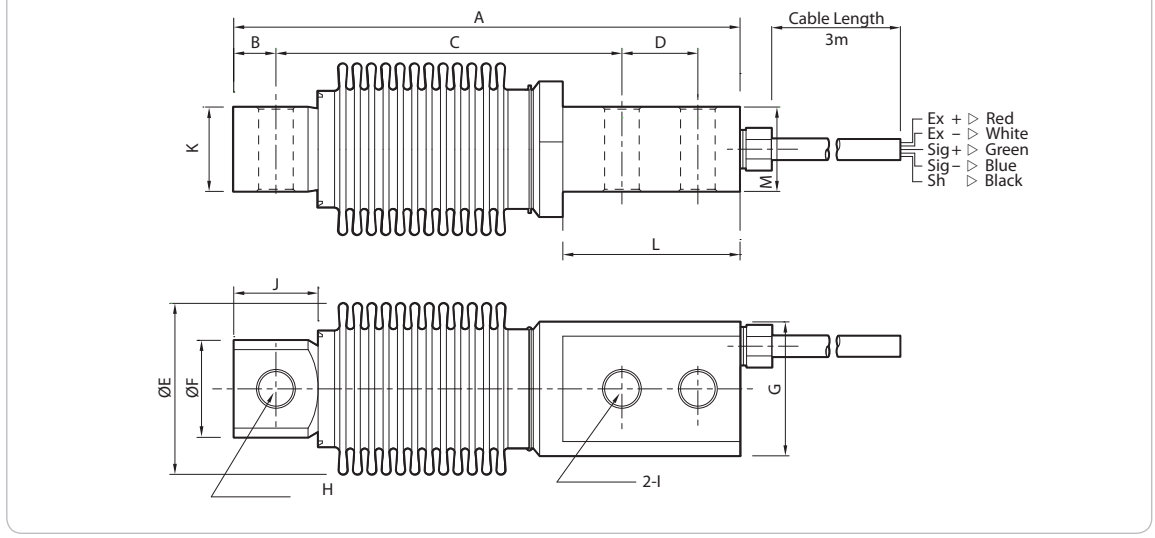
Options

- Ball type accessory available
- Ex ia IIC T4 approval type (only for capacities of 10~500kg)

Applications

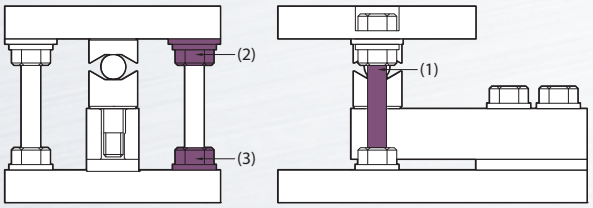
- Platform scales
- Belt scales
- Tank and hopper scales

Dimension

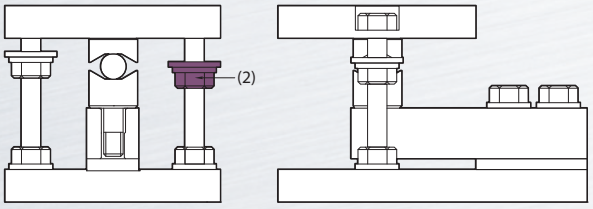


Capa.	A	B	C	D	E	F	G	H	I	J	K	L	M
10kgf~500kgf	120	10	82	18	Ø40	Ø23	31.75	Ø8.2	Ø8.2	20	20	42	20
1tf~2tf	210	20	125	50	Ø66	Ø40	52	Ø16	Ø18	40	30	90	40

BSA/BSB(without spacer)/BSS

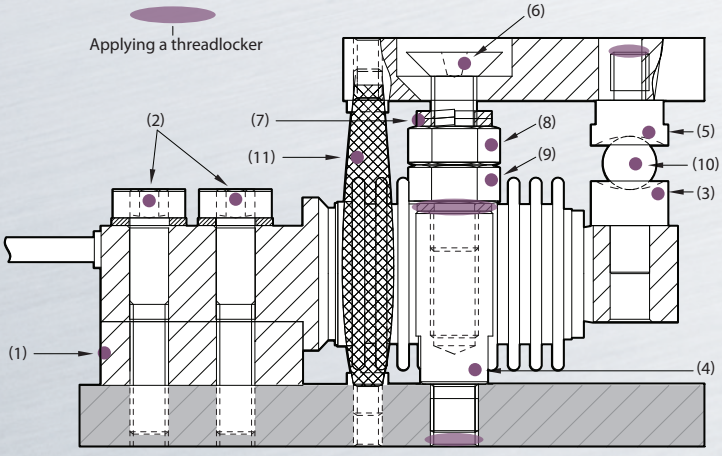


1. Tighten Hex (1) Hex bolt to Mounting plate powerfully.
2. Tighten (2) & (3) hex nut to both ends to close.
3. Tighten Hex bolt and nut in the opposite side like No.1 and 2.
4. Install Load Cell assembled with Ball cup.



1. Loose slowly (2) Hex nut .
2. Loose Hex nut in the opposite side.
3. Loose Hex nut until it doesn't affect the weighing when the weight is loaded.
4. Use Hex nut like (2) to adjust height when replacing.

HBS



NO.	●
(1)	Spacer
(2)	Hex socket head cap screw & washer
(3)	Lower ball cup
(4)	Supporter
(5)	Upper ball cup
(6)	Hex socket flat head cap screw
(7)	Washer
(8)	Hex nut
(9)	Hex nut(Thin)
(10)	Steel ball
(11)	By-pass strap

1. Assemble (1) Spacer and Base plate, and then Load Cell with (2) Hex socket head cap screw & washer.
2. Assemble (3) Lower ball cup and Load Cell.
3. After assembling (4) Supporter and Base plate, apply a threadlocker.
4. After assembling (5) Upper ball cup and Upper plate, apply a threadlocker
5. Assemble (6) Hex socket flat head cap screw(M10) and Upper plate, and then (7) Washer(M10) and (8)(9) Hex nut(M10).
6. Assemble (6) Hex socket flat head cap screw(M10) of Upper plate and (4) Supporter of Base plate.(Depth : approx. 10mm)
7. Put (10) Ball into between (3) and (5) assembled Ball cup.
8. Tighten (9) Hex nut toward (4) Supporter to be fixed fully and then apply a threadlocker.
9. Connect (11) By-pass Strap between Upper plate and Base plate.
10. Loose down and adjust (8) Hex nut as suitably as the weight can be transmitted.