HBS-EXP Explosion Proof Single Ended Beam Load Cell





Features

- ► Pressure type
- ▶ SUS type
- ► Hermetically sealed structure
- ► Essential safety explosion certificate (Ex ia IIC T4)
- ▶ Designed according to IP67

Option

- ► Ball type Accessory (250kgf~2tf, 5tf, 10tf)
- ► HBS-EXP/Essential safety explosion certificate (Ex ia IIC T4) 10~500kgf

Application

- ▶ Platform Scale
- ► Tank, Hopper Scale

Description

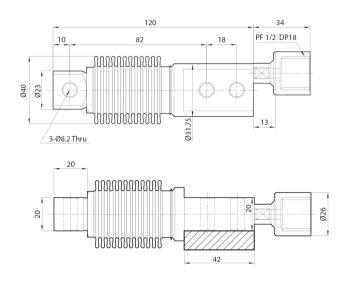
HBS-EXP is a stainless steel Single ended beam type load cell. Designed with a blast-proof structure, it is suitable for various use environments such as explosion-resistant platforms, hoppers, and tank scale.

Specifications

Capacity(R.L.)		kgf	10, 20, 50, 100, 200, 250, 500	
Rated Output Zero Balance		mV / V mV / V	2.0 ± 0.005 0.0 ± 0.02	
Accuracy Class		-	А	В
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.	≤ 0.02 ≤ 0.02 ≤ 0.02 ≤ 0.01 ≤ 0.017 ≤ 0.017 ≤ 1/5000 0.0004	≤ 0.03 ≤ 0.03 ≤ 0.03 ≤ 0.01 ≤ 0.03 ≤ 0.03 ≤ 1/3000
Division Temperature Effect on	-Zero Value -Output Value	mV / V %/10℃ %/10℃	≤ 0.014 ≤ 0.011	0.00067 ≤ 0.028 ≤ 0.015
Excitation	-Recommended -Maximum	V	10 28	
Resistance	-Input -Output -Insulation	Ω Ω ΜΩ	350	± 20 ± 3.5 2000
Compensated Temperature Range Operating Temperature Range		°C	-10 to + 40 -30 to + 80	
Material & Plate		-	Stainless steel	
Cable Specification		-	Ø5 x 4P x 3m (Urethane)	
Safety Overload		% R.L.	150	

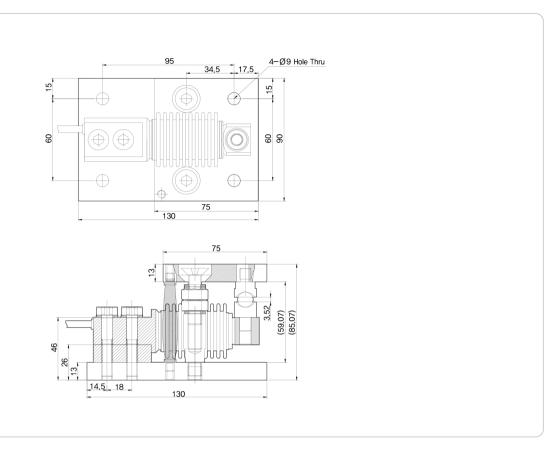
Dimensions

► Intrinsic Safety



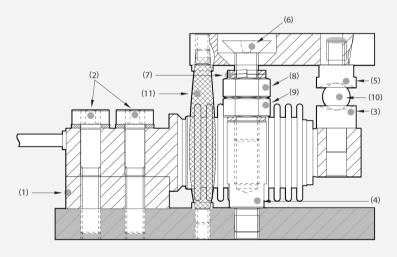
Accessory Dimensions

► HBS



Installation method

► HBS



NO.	•		
(1)	Spacer		
(2)	six-piece wrench bolt & washer		
(3)	Lower ball cup		
(4)	Supporter		
(5)	Upper ball cup		
(6)	six-piece dish head wrench bolt		
(7)	Washer		
(8)	Hex nut		
(9)	Hex nut(Thin)		
(10)	Steel ball		
(11)	By-pass strap		

- 1. Attach the spacer (1) to the base plate, and then assemble the load cell (6-angle wrench bolt and washer (2)).
- 2. Assemble the lower ball cup (3) on the road cell.
- 3. After assembling the support (4) on the base plate, apply an anti-freeze solution.
- 4. After assembling the upper ball cup (5) on the upper plate, apply the anti-freeze solution.
- 5. Tighten the six-piece dish head wrench bolt (M10) (6) on the upper plate and then the M10 Washer (7) and the M10 Nut (8) (9).
- 6. Combine the six side dish head wrench bolt (M10) (6) of the upper plate with the booster (4) of the base plate (approx. 10 mm/min_4 times).
- 7. Insert the ball (10) between the joined ball cup (3) (5).
- 8. Tighten the nut (9) so that it is fully secured to the support (4) and apply an anti-freeze solution.
- 9. Connect By-pass strap (11) to the upper plate and the base plate.
- 10. Lower the nut (8) and adjust it appropriately to obtain approval for the load.