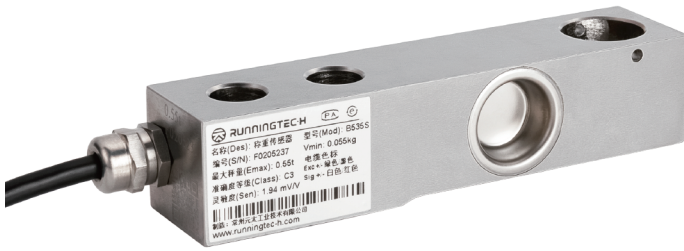


## Main Features:



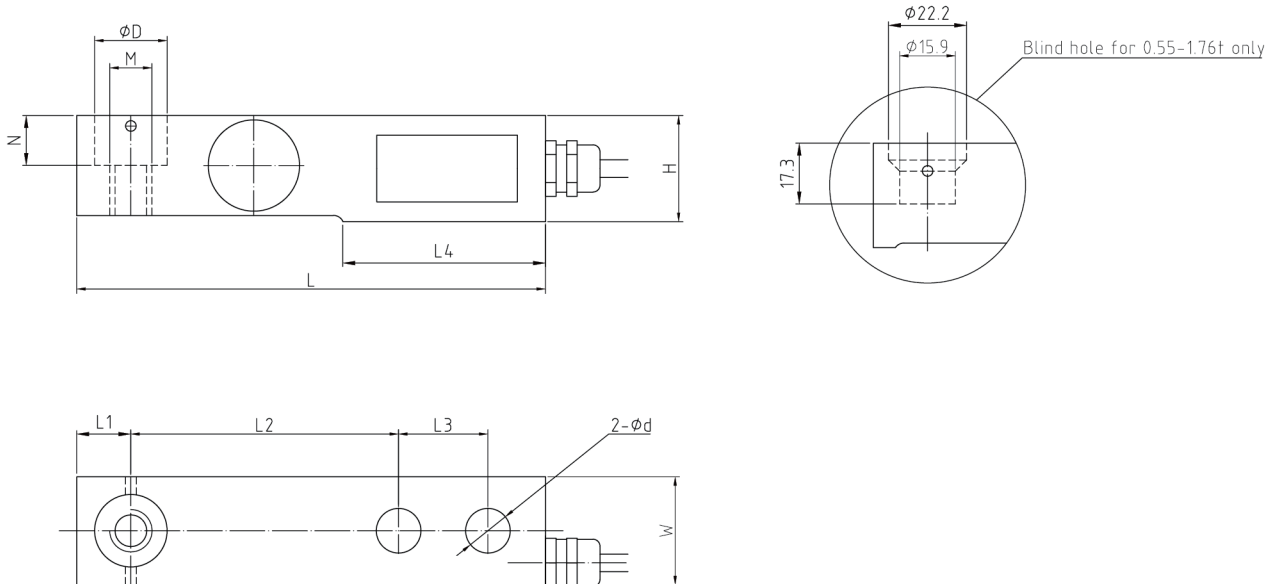
- Be forced structure with the top-half blind hole and the second half threaded hole
- Material: high-quality stainless steel
- Great long-term stability.
- Rated Capacities: 550kg~4.4t
- OIML R60, NTEP HB44, CE and RoHS certified
- IP Rating: IP68
- Suitable for platform scales, dosing system and process control in chemical, food, pharmaceutical and other industries.
- High precision by OIML R60 C5, high reliability.
- B735S with 17-4PH material and PEEK strain gauge from HBK.



## Product description:

The B535, B735 series are typical and high precision, low profile single-ended shear beam, which are available in a wide range of capacities. Full stainless steel construction and complete hermetic sealing ensures reliable accuracy and robustness in harsh industrial applications. The B535, B735 series are the ideal load cell for high precision weighing platforms with bolts by 2pcs through-holes firmly at end, meanwhile the force would be applied from the self-aligning level-pin settled into the top half blind hole at the other end vertically. Also receive force via the second half threaded hole with levelling foot together.

## Dimensions (mm&inch):



Rated Cap.	L	L1	L2	L3	L4	W	H	d	D	M	N
t/mm											
0.55t-1.1t	133.4	15.4	76.2	25.4	57.7	30.7	30.2	13.0	20.6	M12×1.75	14.2
1.76t	133.4	15.4	76.2	25.4	51.7	30.7	30.2	13.0	20.6	M12×1.75	14.2
2.2t	171.5	19.1	95.3	38.1	76.2	36.8	36.6	20.5	30.2	M20×2.5	17.0
4.4t	171.5	19.1	95.3	38.1	76.2	42.9	42.9	20.5	30.2	M20×2.5	20.1

## B535S B735S Single-Ended Beam Load Cell Specifications

Parameter		Units	Specifications		
Model No.			B535S/ B735S		
Rated capacity (E <sub>max</sub> )		t	0.55; 1.1; 1.76	2.2	4.4
Accuracy class <sup>1)2)</sup>			C3		C5
Min. dead load		kg	0		
Rated output		mV/V	1.94 ± 0.002		
Zero balance		% of E <sub>max</sub>	± 1		
Repeatability error		% of AL <sup>3)</sup>	< ± 0.010	< ± 0.006	
Creep; 30 minute		% of AL	< ± 0.017	< ± 0.010	
Min. dead load output return (DR); 30 min		% of AL	< ± 0.017	< ± 0.010	
Temp. effect on	Min. dead load output	% of E <sub>max</sub> /°C	< ± 0.0020	< ± 0.0014	
	Rated output <sup>2)</sup>	% of AL/°C	< ± 0.0012	< ± 0.0007	
Temperature range	Compensated	°C(°F)	-10 to +40 [+14 to +104]		
	Operating		-40 to +65 [-40 to +149]		
	Safe storage		-40 to +80 [-40 to +176]		
Excitation voltage	Recommended	V AC/DC	5 ~ 15		
	Maximum		15		
Terminal resistance	Excitation	Ω	384 ± 5		
	Output		350 ± 3		
Insulation resistance @50VDC		MΩ	> 5000		
Breakdown voltage		V AC	> 500		
Seal type / IP rating			Hermetically welded / IP68 IP69k		
Load limit	Safe	% of E <sub>max</sub>	150		
	Ultimate		300		
Material	Spring element		Stainless steel [ B735S: 17-4PH ]		
	Strain gauge		PEEK [ B735S: HBK SG ]		
	Cable		Φ5.4; 4-wire; PVC		
Cable length		m	3.0	5.0	5.0
Weight; approx		kg	0.55-1.76t	2.2t	4.4t
			1.0	1.4	4.0
Fatigue life		cycles @E <sub>max</sub>	> 1,000,000		
Deflection at E <sub>max</sub> ; approx		mm	< 0.5 [1.76t = 1.2]		
Barometric pressure effect on Zero Output		Vmin/kPa	< 1.0		
Mounting screw	Size/Grade		M12 / A2-70	M20 / A2-70	M20 / A2-70
	Recommended torque	N.m	98	140	275

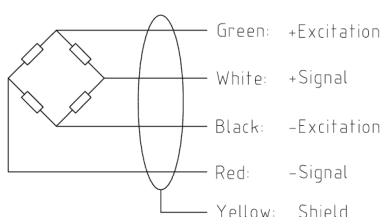
### Notes:

<sup>1)</sup> Error due to the combined effect of non-linearity and hysteresis

<sup>2)</sup> The sum of errors due to Temperature Effect on Output comply with the requirements of OIML R60 and NIST HB44

<sup>3)</sup> AL = Applied Load

Cable Colour Code: (4-wire circuit)



Shield connected to load cell body

### Interchangeable Products:

Manufacturer	Model
HBM	HLC B1