

## Weigh Module

### FEATURES

- Easy installation
- No extra mounting detail is needed
- Movable load point
- Compact and robust
- Allow movement caused by thermal expansion
- FM, ATEX and IECEx certified for hazardous locations
- EN1090 compliant Execution class Exc 2 available on request

### APPLICATIONS

- Process weighing
- Level monitoring

### DESCRIPTION

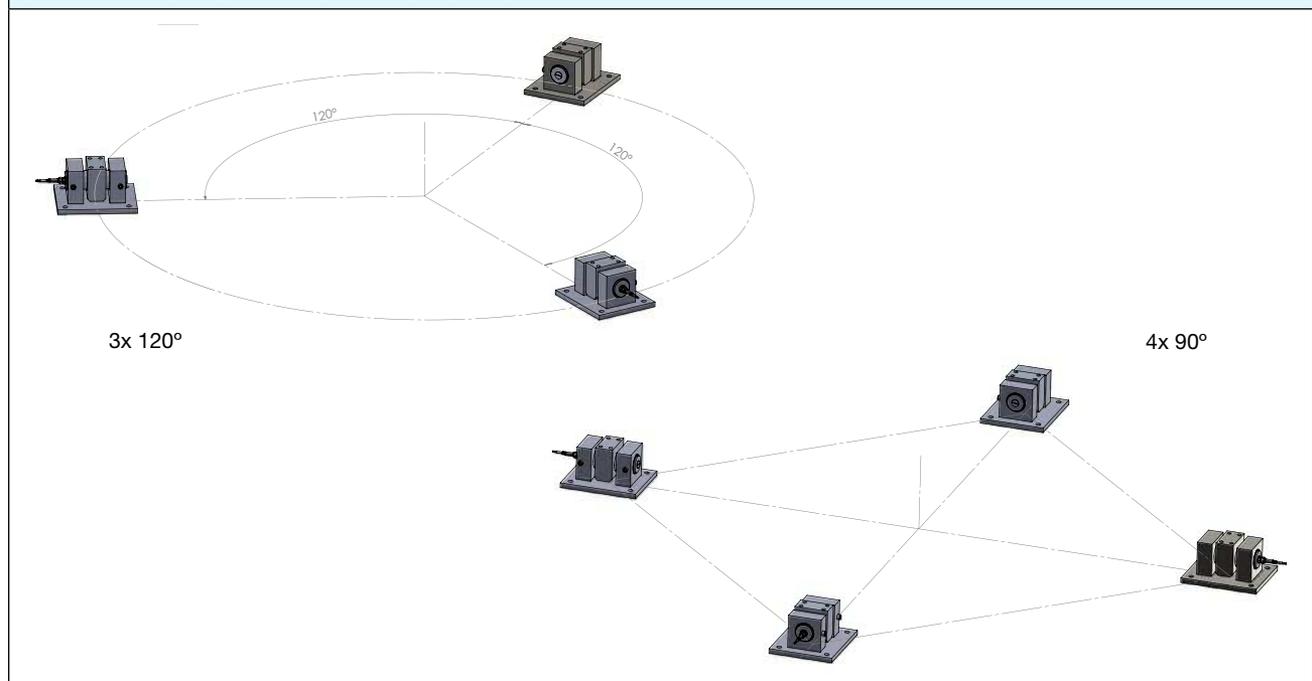
The KDH-5 weigh module combines high accuracy with a compact and robust mechanical arrangement.

The sensing element consists of three sections. The two outer constitute supports and rests on the built-in block, which is secured to the base. On the middle section, which is the load sensing part, there is a yoke to which the leg of a tank or similar is secured. The sensor is efficiently locked so that it cannot twist in the built-in block.

The KDH-5 design is non-sensitive to side loads and the design of the module makes it easy to remove the load cell at e.g. dummy installation during assembly of the vessel to be weighed.

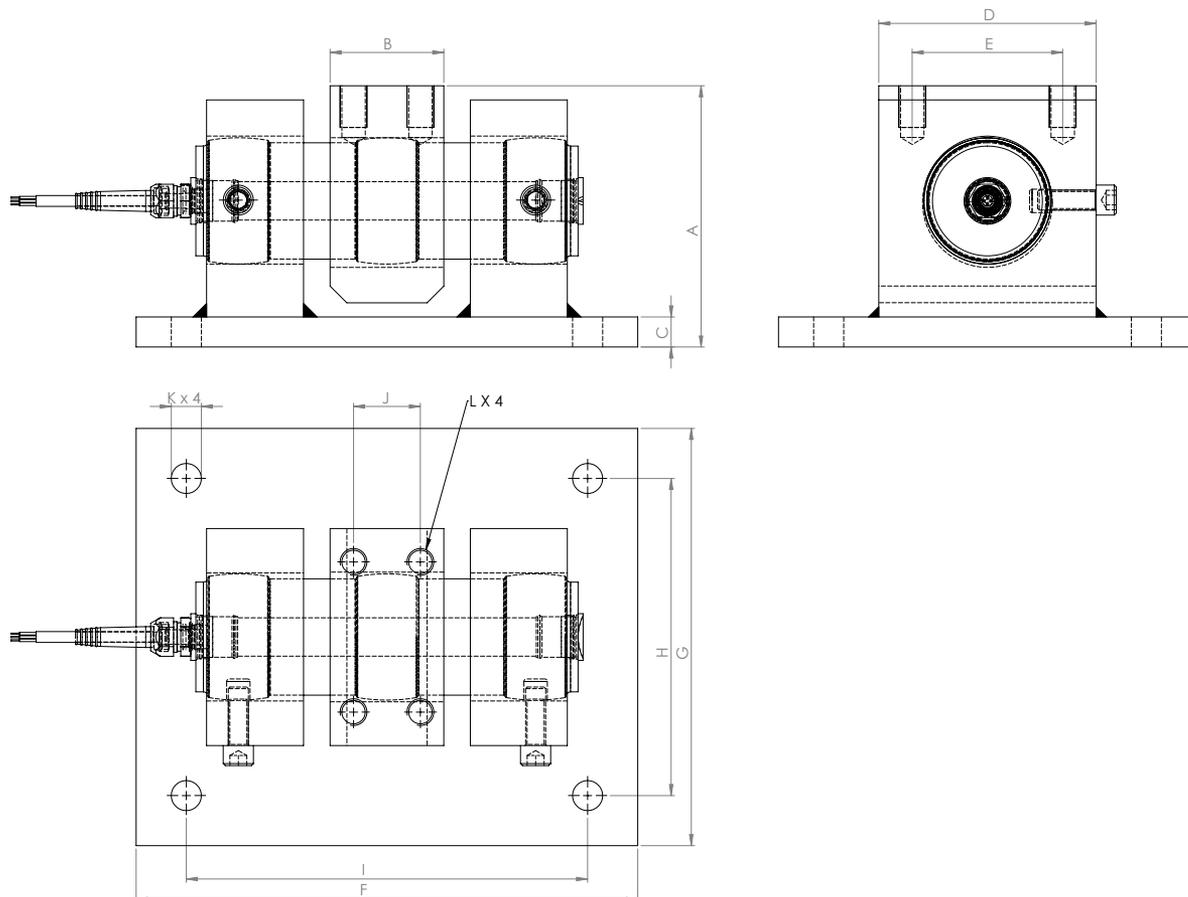


### ORIENTATION OF WEIGHT MODULES



Weigh Module

**DIMENSIONS** in millimeters – 20-500 kN capacity



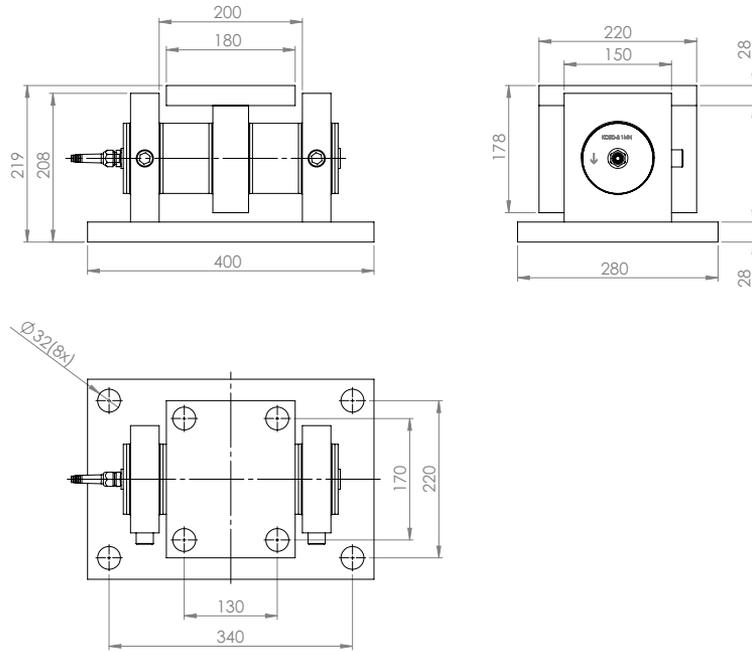
Range kN	A	B	C	D	E	F	G	H	I	J	K:Ø	L: Thread/Depth
20 - 200 <sup>(1)</sup>	107	48	14	80	50	200	160	130	170	30	14	M12 / 20
200 <sup>(2)</sup> - 500	156,5	68	18	130	90	300	250	190	240	40	18	M16 / 25

<sup>(1)</sup> 200 kN compact version

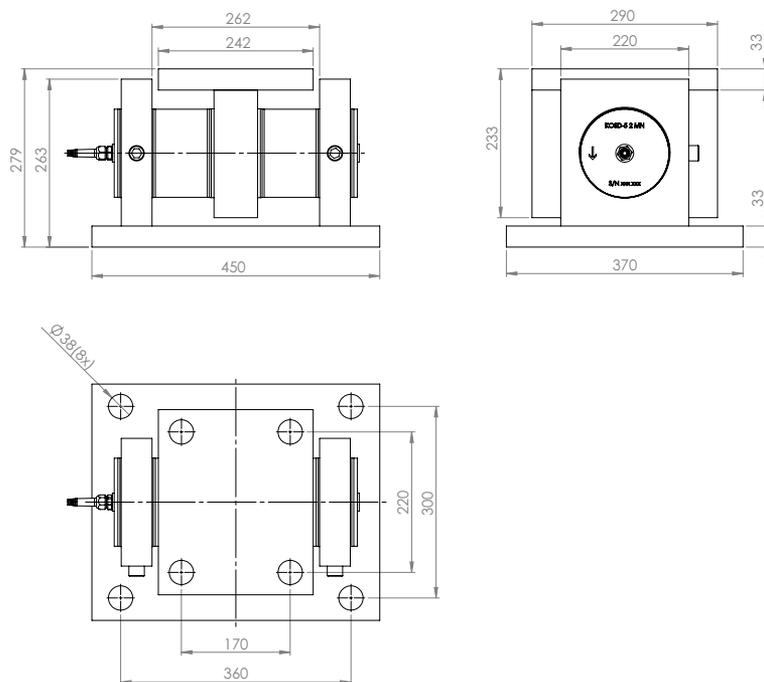
<sup>(2)</sup> 200 kN standard version

Weigh Module

**DIMENSIONS** in millimeters – 1 MN capacity



**DIMENSIONS** in millimeters – 2 MN capacity



Weigh Module

SPECIFICATIONS			
PARAMETER	VALUE	PARAMETER	VALUE
Rated load (RL)	20, 50, 100, 200 <sup>(1)</sup> , 300, 400, 500, 1000 and 2000 kN	Temperature range	-40 to +80°C
Nonlinearity	±0.075% RO	Temperature effect on output (-10°C to +50°C)	±0.005% of output/°C
Repeatability	0.02% RO	Temperature effect on zero balance (-10°C to +50°C)	±0.005% of RO/°C
Load, safe	150% RL	Insulation resistance at 200 VDC	>4 GΩ
Load, ultimate	200% RL	Material	Stainless Steel Load Cell Plated Steel Bracket Stainless optional
Side load, safe	50% RL <sup>(2)</sup>	Electrical connection	10 m shielded Four conductor cable
Uplift load, safe	50% RL <sup>(2)</sup>	Degree of protection	IP67
Input voltage, recommended	5 VDC or VAC	<b>APPROVALS</b>	
Input voltage, maximum	18 VDC or VAC	FM, ATEX, IECEx and EN1090 Exc 2 certified versions are available upon request. For details contact blhnobel@vpgsensors.com	
Input resistance	382 Ω ±5 Ω		
Output resistance	350 Ω ±0.5 Ω		
Rated output (RO)	1.0 mV/V		
Zero balance	±5% RO		

<sup>(1)</sup> 200 kN units are available as compact or standard version

<sup>(2)</sup> 200 kN compact and 200-500 kN stainless: 30% RL

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



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