

#### **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.

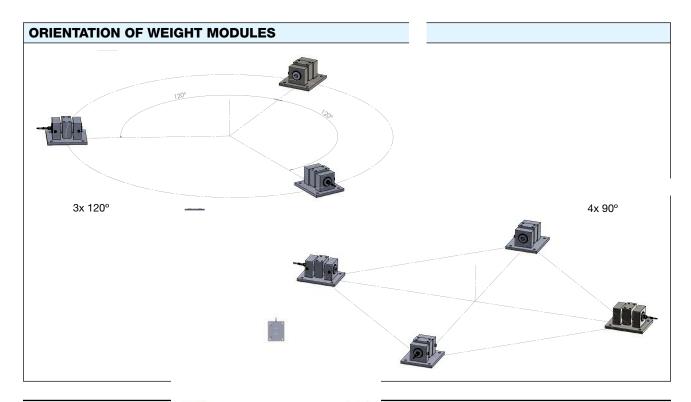




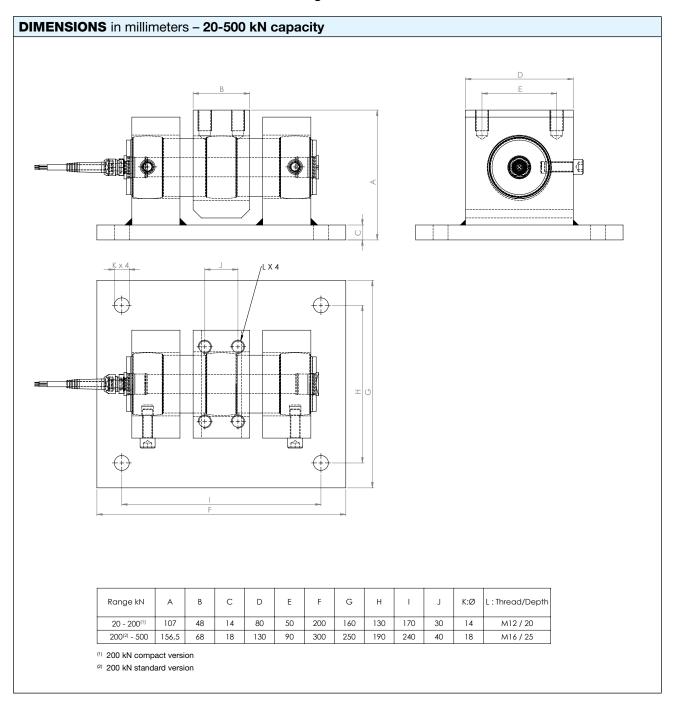




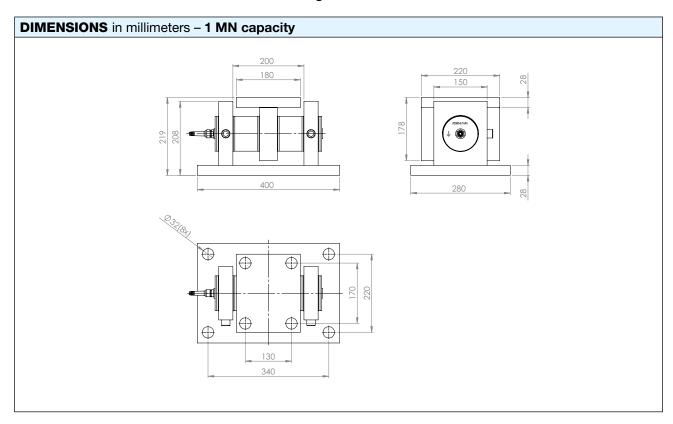


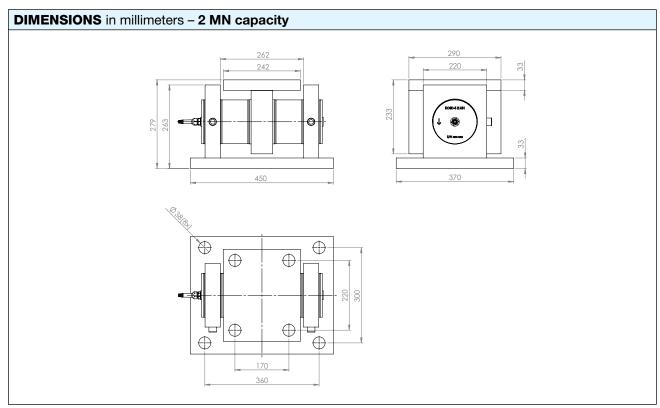














SPECIFICATIONS				
PARAMETER	VALUE	PARAMETER	VALUE	
Rated load (RL)	20, 50, 100, 200 <sup>(1)</sup> , 300, 400, 500, 1000 and 2000 kN	Temperature range	-40 to +80°C	
		Temperature effect		
Nonlinearity	±0.075% RO	on output (-10°C to +50°C)	±0.005% of output/°C	
Repeatability	0.02% RO	Temperature effect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

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

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

 $<sup>^{\</sup>scriptscriptstyle{(2)}}$  200 kN compact and 200-500 kN stainless: 30% RL



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Vishay Precision Group, Inc.

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