

Weigh module KOM-1

The KOM-1 weigh module has an accuracy, which makes it especially suitable for load and level monitoring in storage tanks.

The sensing element consists of three sections. The two outer sections constitute supports and rest 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 the tank is secured. The sensor is efficiently locked so that it cannot twist in the built-in block.

KOM-1 has resistive strain gauges.

Technical data

Rated load (R.L.)		kN	10, 20, 50, 100, 200
Typical combined error (terminal)		% of R.O.	±0.5
Repeatability		% of R.O.	0.5
Overload	safe*	% of R.L.	100
	ultimate*	% of R.L.	200
Input voltage	recommended	V DC or AC	10
	maximum	V DC or AC	18
Input resistance		ohm	350 ± 5
Output resistance		ohm	350 ± 5
Rated output (R.O.)		mV/V	≈ 1
Zero balance		% of R.O.	±5
Tolerance of shunt calibration values		% of value**	±1
Temperature range		°C	-40 to +80 (+100)***
Temperature effect	on output	% of output/°C	+0.04
	on zero balance	% of R.O./°C	±0.04
Insulation resistance at 200 VDC		Gohm	>4
Material	Load cell		Stainless steel
	Built in block		Yellow chromate steel
Electrical connection	10, 20, 50 kN		5 m shielded four conductor cable
	100, 200 kN		10 m shielded four conductor cable
Degree of protection			IP 67

* referring to recommended loading case

** see calibration sheet of the load cell

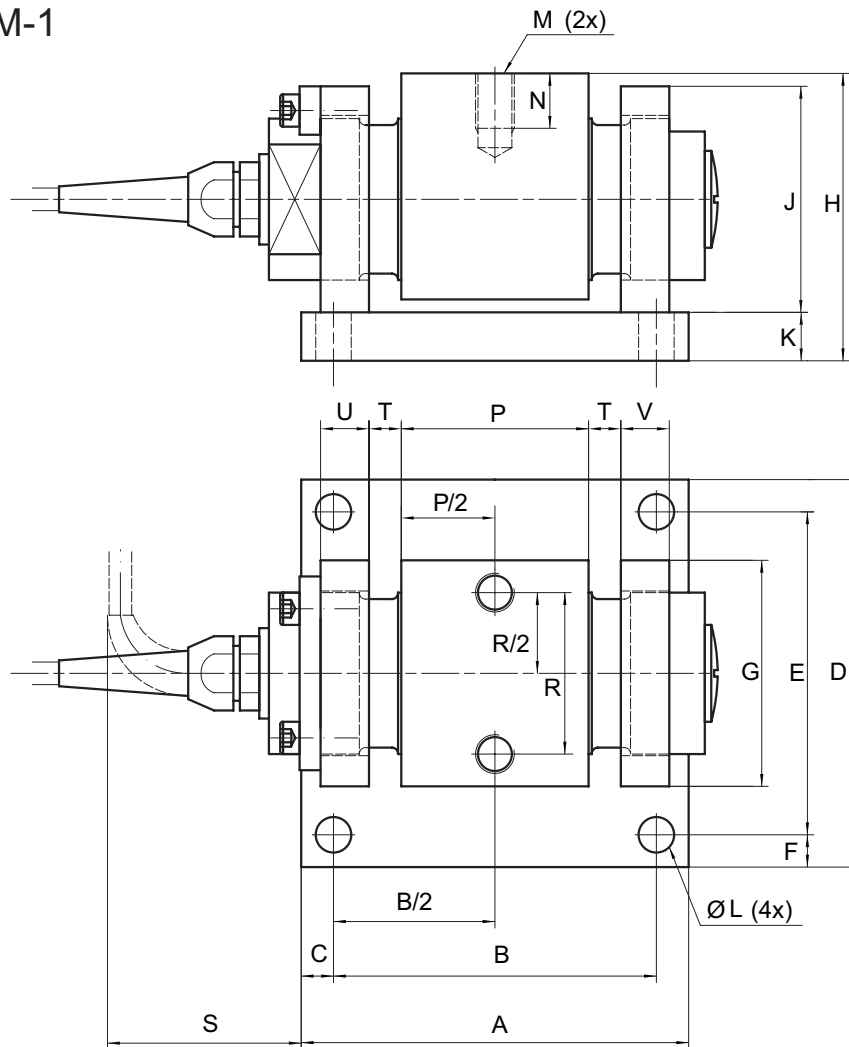
*** -40 to +100°C on demand

ATEX certified versions for Load cell KOSD-40 in Weigh module KOM-1 for use in explosive atmospheres are available.



II 1GD
EEx ia IIC T4 Tamb=60°C

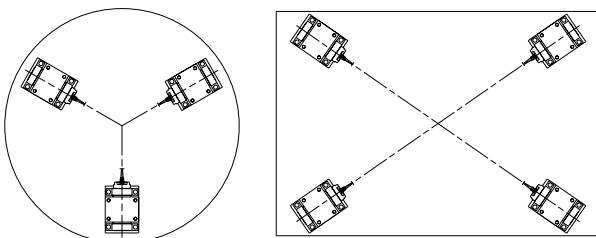
Dimensions KOM-1



Range kN	A	B	C	D	E	F	G	H ±1	J	K ^ø	Ø L
10-20-50	120	100	10	120	100	10	70	89	70	15	11
100	120	100	10	120	100	10	70	89	70	15	11
200	140	90	25	170	140	15	100	135	100	24	14

Range kN	M	N	P	R	S	T	U ^ø	V ^ø
10-20-50	M12	18	33	50	47	10	15	15
100	M12	18	48	50	60	10	20	20
200	M16	28	48	70	50	10	30	20

Weigh module orientation



Vishay Nobel AB
 Box 423, SE-691 27 Karlskoga, Sweden
 Phone +46 586 63000 · Fax +46 586 63099
 info.se@vishaynobel.com · www.vishaynobel.com