

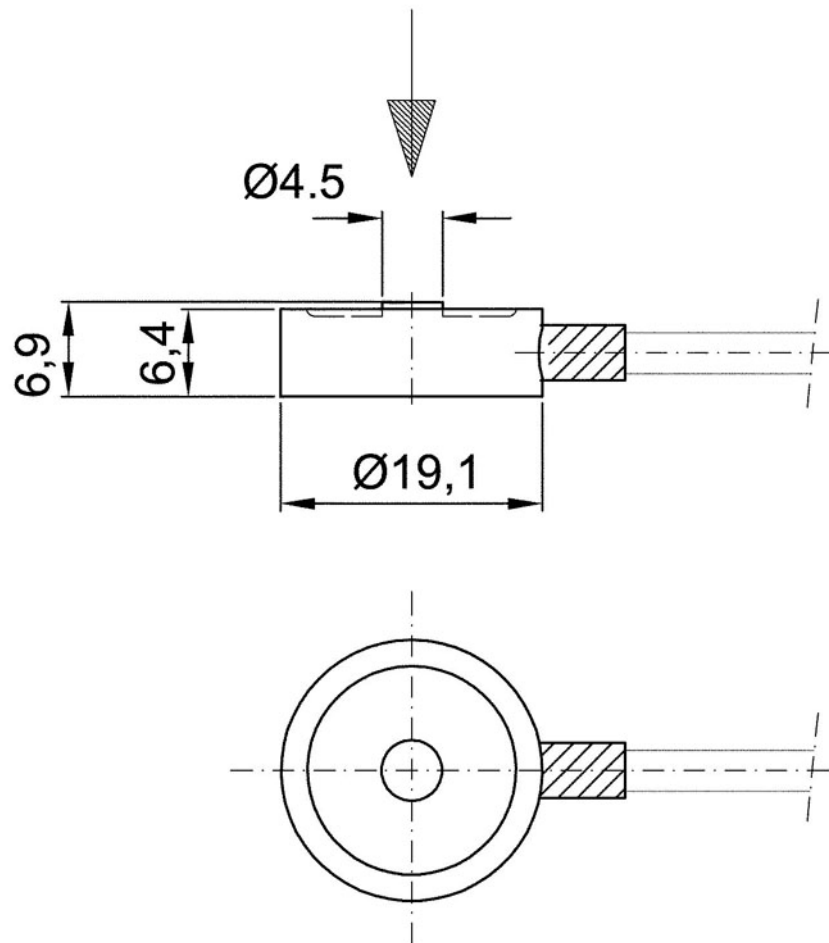
Series KMB19

- Capacity from 0...100N to 0...4kN
- Calibration in compression
- Loadcell: 100N Aluminium / 200N Steel
- Protection class IP65

The series KMB19 is a miniature force transducer, developed for applications with smallest installation space. The housing shape is independent from capacity. By its protection type IP65 the KMB19 is also applicable in industrial environs.



Dimensional Drawing



Series KMB19

Technical Data

Capacity (0 to ...)	100; 200; 400; 1000; 4000 N
Operating Overload	120%F.S.
Safe Overload	150%F.S.
Ultimate Overload	> 200 F.S.
Rated Output	2 mV/V
Rated Output Tolerance	10%F.S.
Zero Balance	3%F.S.
Non-Linearity	0,8%F.S.
Hysteresis	0,8%F.S.
Creep (30 min.)	0,2%F.S.
Total Error *	2%F.S.
Non-Repeatability	0,8%F.S.
Temp.Effect on Zero	0,2%F.S./10K
Temp.Effect on Output	0,5%F.S./10K
Legend:	*) = Hysteresis included All above values in %F.S. < = ± values

Mechanical Data

Measuring Method	Foil Strain Gage Full Bridge
Material Loadcell	100 N = Aluminium / ab 200 N = stainless Steel

Ambient Conditions

Compensated Temperature	-10 ... +40° C
Operating Temperature	-20 ... +60° C
Protection Class	IP 65

Electrical Data

Input Impedance	350 ± 30 Ω]
Output Impedance	350 ± 3 Ω]
Insulation	> 2000 MΩ]
Recommended Excitation	5 VDC typ., 7 VDC max.
Cable Size	4- 5-wire shielded, 2m

Series KMB19

Signal Versions

	Supply	Signal
0000 without amplifier	5 V	10 mV \pm 20%

Electrical Connection

Wiring	0000
black	Excitation -
red	Excitation +
green	Signal +
white	Signal -
Shield	n. c.

Order Code

Order Code						Accessories
Series	KMB19					External Amplifier • IMA2-DMS
Capacity		100N				
		200N				
		400N				
		1KN				
		2KN				
Connection			K			
Amplifier				0000		
Force Direction					D	

The specifications and information in this datasheet cannot consider all special demands that are caused by the application. Because of this, they are no general description of the properties of the product.

19.02.2015 All specifications are subject to change without

(*) = on request available for projects