

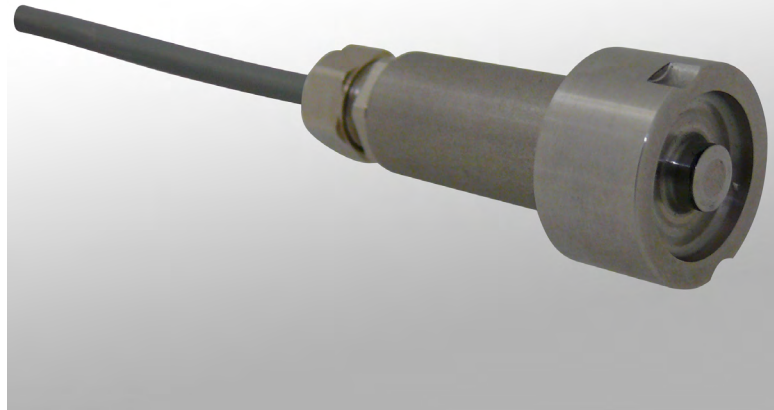
Compression Force Sensor DK2M

Scope of Supply

Force sensor with 5 m cable (PVC),
with cable connection T:
cable gland, straight

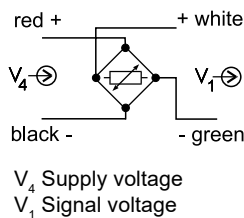
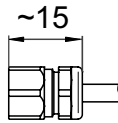
Additional Options

R: Radial cable output



Connections

Variant T



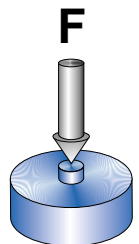
Special features

- Minimum space requirement
- Nominal force ratings from 250 to 3000 N
- Made of stainless steel

The compression force load cells of the DK2M series are characterized by their very compact design. They have been especially developed for applications where must be measured accurately within confined spaces - diameter and height.

The compression force load cell of the series DK2M consist of a cylindrical membrane, whose special form was optimized with Finite Elements Analysis (FEA).

Strain gauge elements on the membrane surface capture the acting forces. An amplifier of the HAEHNE product program provide the voltage supply to the full bridge and is also processing the measurement signals. The signals at the output terminals of the amplifier are proportional to the acting compression force. They can be digitally displayed or used as actual values in closed loop controls.



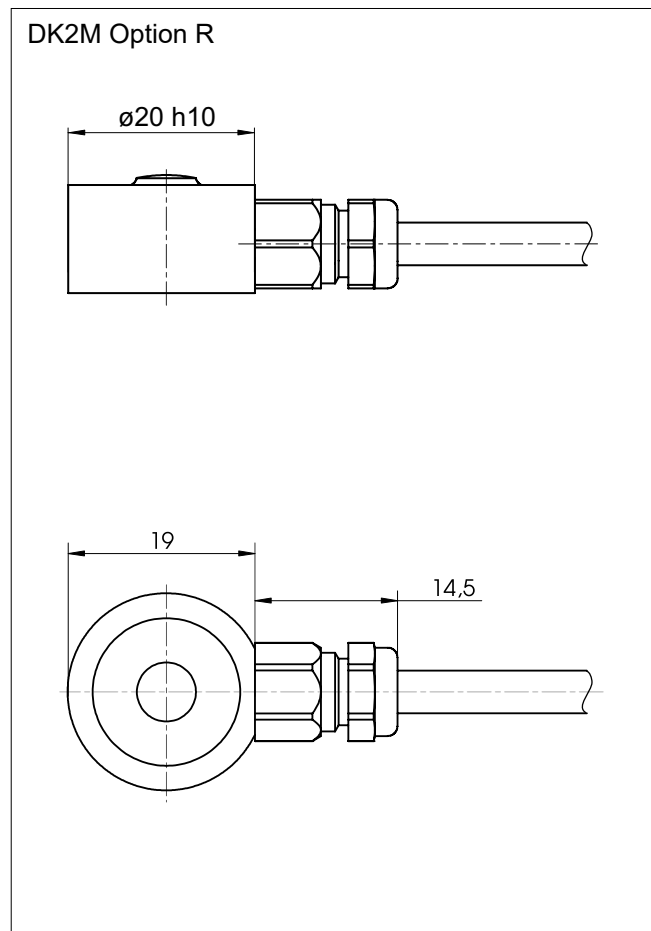
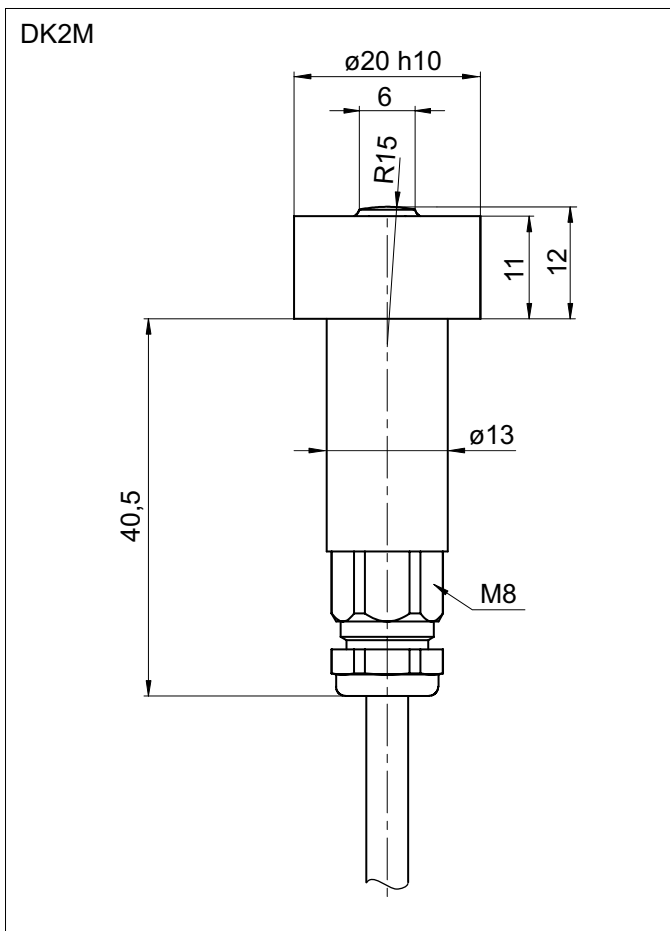
Ordering Exmaple:

DK2M0,25-TR

Type	
Nominal Force	
Variants / Options	

Technical Data	Values (%) based on nominal force	
Nominal Force	0,25; 0,5; 1; 2; 3 kN	
Max. operating force	160 %	
Absolute max. force	250 %	
Nominal rating ¹⁾	0,25 kN	0,35 mV/V
	0,5 - 3 kN	0,75 mV/V
Combined error	0,5 %	
Nominal ambient temperature	+ 10 ... +60° C (+50...+140° F)	
Operational temperature range	- 10 ... +70° C (+14... +158° F)	
Nominal resistance of strain gauge	1000 Ω	
Max. bridge supply voltage	10 VDC	
Enclosure protection	IP67	
Sensor cable (standard)	PVC, black 4 x 0,22 mm ²	

¹⁾ The exact characteristic value is shown on the sensor for the version without adjustment. When the sensor is calibrated, the calibration takes place in a separate J-Box (included in the scope of delivery).



Dimensions in mm (1 mm = 0.03937 inches)