

Compression Force Sensor DK2

Scope of Supply

Force sensor with 5 m cable (PVC),
axial output with cable connection T:
cable gland, straight;
load button

Additional Options

Starting from 1 kN nominal force:
F: For use in explosive areas,
incl. J-Box

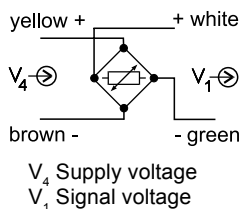
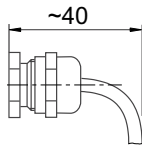
Additional Accessories

Self aligning pad



Connection

Variant T



Special Features

- Minimum space requirement due to compact design
- Simple mounting
- Nominal force ratings 0,2; 0,5; 1; 2; 5 and 10 kN
- Made of stainless steel with protection class IP67
- With and without overload protection

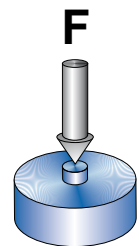
The compression force sensors of DK2 series are characterized by their very compact design. They have been especially developed for applications where large forces must be measured accurately within confined spaces - diameter and height.

The sensors 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.

The radial cable entry facilitates simple mounting of the load cell to machine frames. In order to optimize the transmission of force the use of a load button or a pendular pad is recommended.

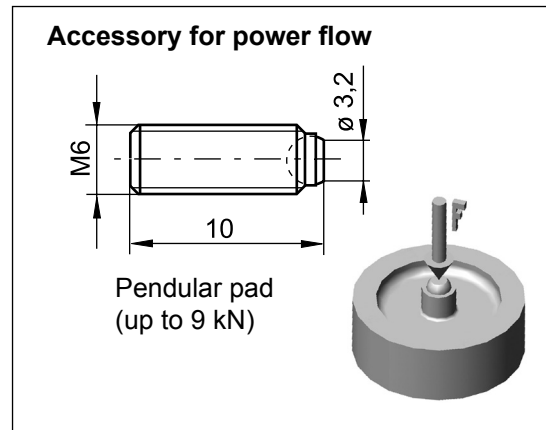
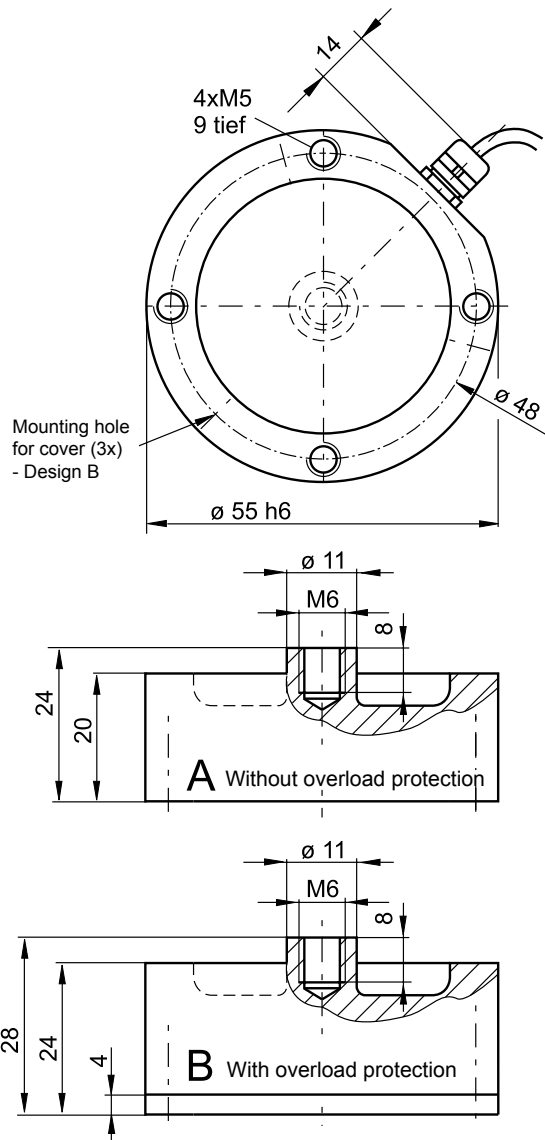
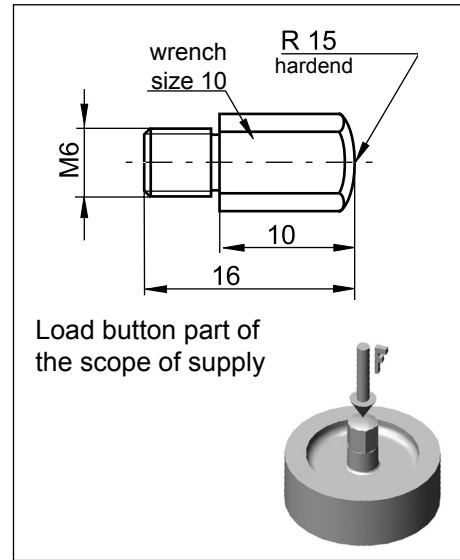


Ordering example:

DK2A5k-TF

Type	
Design	
Nominal force	
Variant / Option	

Technical Data	Values (%) based on nominal force	
Nominal Force	0,2; 0,5; 1; 2; 5; 10 kN	
Max. operating force	160 %	
Absolute max. force		
Design A	250 %	
Design B	1000 %	
Nominal rating	0,2 kN	1,25 mV/V
	0,5 - 10 kN	1,5 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	700 Ω	
Max. bridge supply voltage	10 VDC	
Enclosure protection	IP67	
Sensor cable (standard)	PVC, grey, 4 x 0,14 mm ²	



Dimensions in mm (1 mm = 0.03937 inches)

Technical modification reserved.