

Product Description

Compression Force Load Cell DK2

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

Scope of Supply

- Compression force load cell with fixed cable (PVC), 5 m in length with straight receptacle
- Load button

Additional Accessories

- **Self aligning pad**
starting from 1 kN nominal force:
- **Option F:** Use in potentially explosive atmospheres (Adaption Modul J-Box contained in the scope of supply)



Application

The compression force load cells of the **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 compression force load cell of the **series DK2** 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. The amplifier **DMA** 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.

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 (Option F: J-Box necessary)	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	
Operational temperature range	- 10... +75° C	
Nominal resistance of strain gauge	700 Ω	
Max. bridge supply voltage	10 VDC	
Enclosure protection	IP67	
Sensor cable (standard)	PVC, grau, 4 x 0,14 mm ²	
Sensor cable (option F)	PVC, blau, 4 x 0,14 mm ²	

