

Product Description

Compression Force Load Cell DK4

Special Features

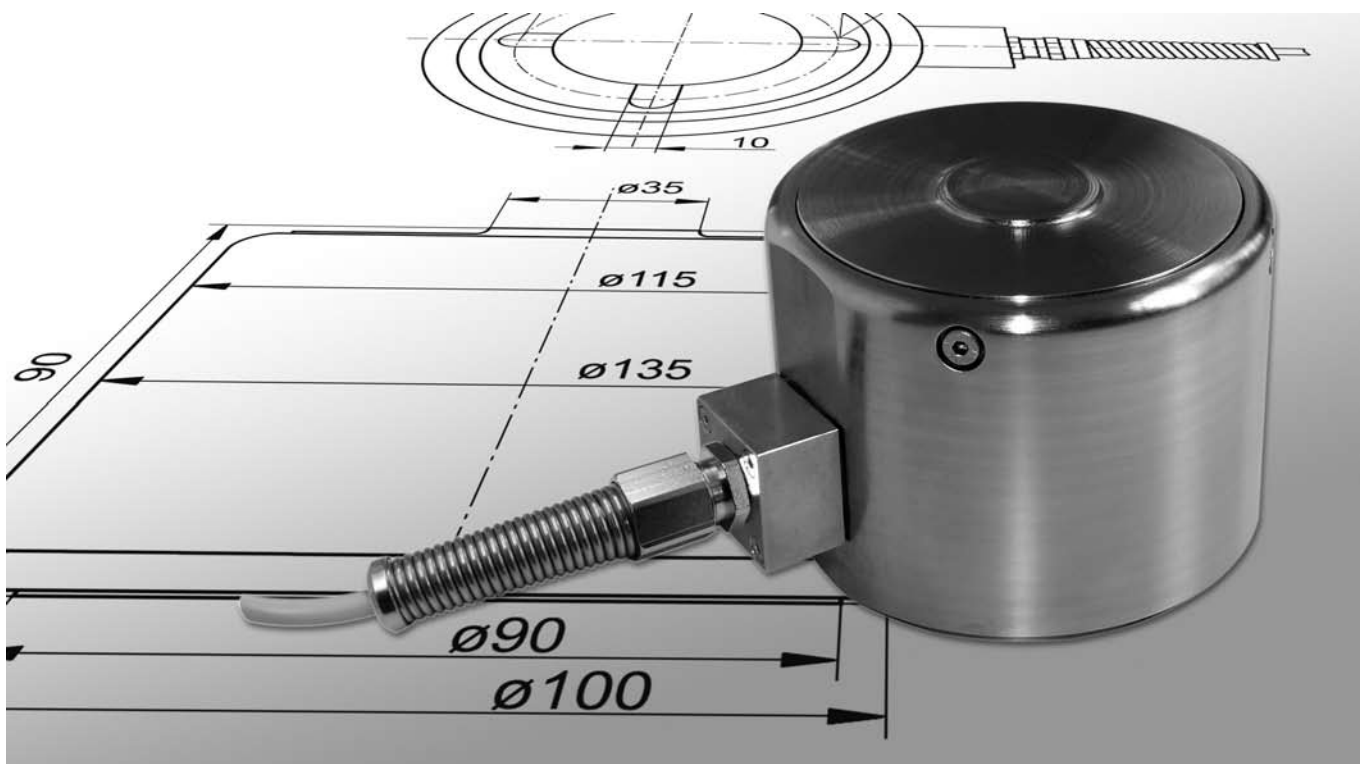
- ☐ Minimum space requirement due to compact design
- ☐ Nominal force ratings from 200 to 1000 kN

Scope of Supply

Compression force load cell with fixed cable (PVC LIYCY 4x0,34), 5 m in length with straight receptacle

Additional Accessories

- **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 DK 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 - . Typical applications are calenders but also other machines and equipment that require the measurement and control of forces.

The compression force load cell basically consists of a cylindrical compression body. Its shape has been optimized through calculations made according to the finite element method.

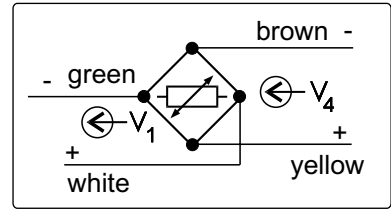
Strain gauge elements on the active circumference of the compression cylinder captures the acting forces.

The voltage supply to the full bridge and the processing of the measuring signals is effected by way of a suitable amplifier from the HAEHNE program

The signals at the output terminals of the amplifier are proportional to the acting compression force. They can be digitally displayed or used as instantaneous values in a control loop.

Technical Data	% Values based on nominal
Nominal force (measuring range)	200; 500; 650; 1000 kN
Max. operating force	150 %
Absolute max. force	250 %
Nominal rating	1,0 mV / V
Comined error	1,0 %
Nominal ambient temperature	+ 10 ... +60° C
Operational temperature range	- 10 ... +75° C
Nominal resistance of the strain gauge bridge	700 Ω
Bridge supply voltage	10 VDC
Enclosure Protection	IP 67

Sensor cable lead colors



V₁: bridge output signal
 V₄: bridge supply voltage

Ordering Data:

DK4-650k-F

