

Compression Force Sensor DK4

Scope of Supply

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

Variant

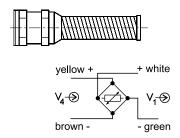
N2: plug connection, straight, M12, moulded

Additional Option

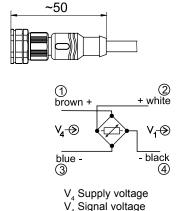
F: For use in explosive areas, incl. J-Box

Connection

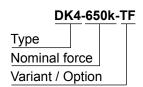
Variant T



Variant N2



Ordering example:





Special Features

- · Minimum space requirement due to compact design
- Nominal force ratings from 200 to 1000 kN
- · Made of stainless steel

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 force sensor basically consists of a

cylindrical compression body. Its shape has been optimized through calculations made according to the finite element method.

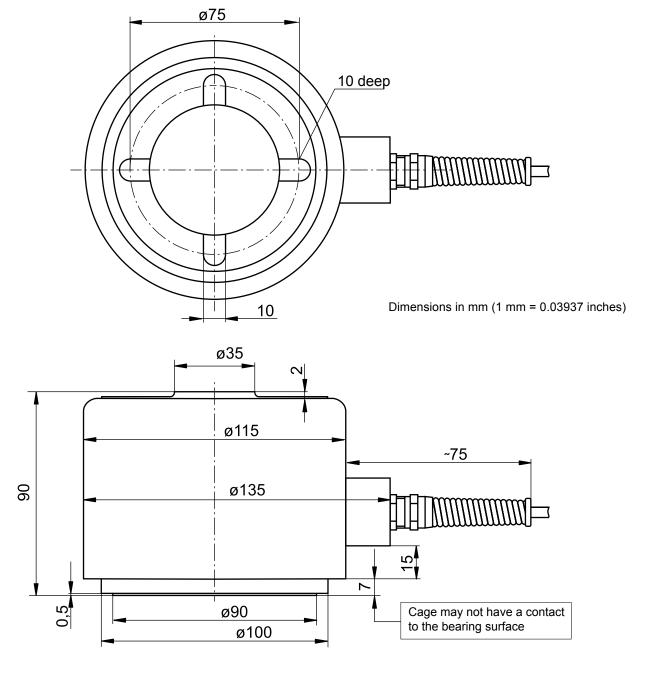
Strain gauge elements on the active circumference of the compression cylinder captures the acting forces.

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 nomial force
Nominal force (measuring range)	200; 500; 650; 1000 kN
Max. operating force	150 %
Absolute max. force	250 %
Nominal rating	1,0 m V / V
Comined error	1,0 %
Nominal ambient temperature	+10+60° C (+50+140° F)
Operational temperature range	- 10+70° C (+14+158° F)
Nominal resistance of the strain gauge bridge	700 Ω
Bridge supply voltage	10 VDC
Enclosure Protection	IP 67



DK4 PB EN 11_16indd

Technical modification reserved.