IHAEHNE

Compression Force Sensor DK4

Scope of Supply

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

Variant

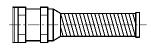
N2: plug connection, straight, M12, moulded

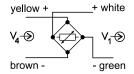
Additional Option

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

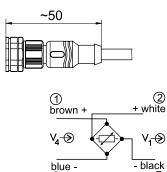
Connection

Variant T





Variant N2

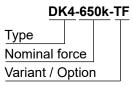


V₄ Supply voltage V₁ Signal voltage

(4)

Ordering example:

3





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.





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.

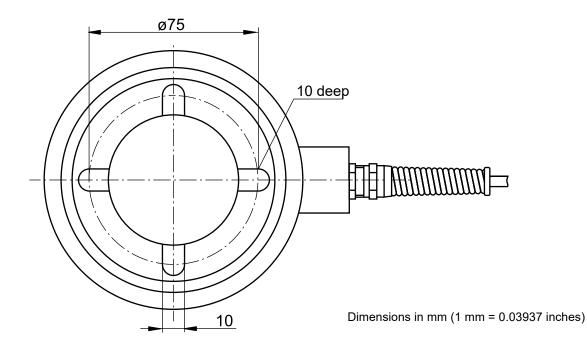
The voltage supply to the full bridge and the processing of the measuring signals is effected by way of a suitable amplifier from the *HAEHNE* program

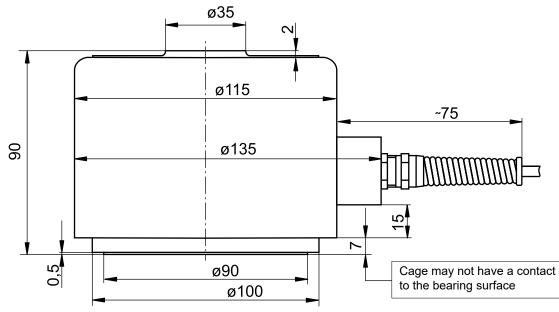
The signals at the output terminals of the amplifier are proportional to the acting compression force. They can be digitally displayed or used as instantaneous values in a control loop.

DK4



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
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 the strain gauge bridge	700 Ω
Bridge supply voltage	10 VDC
Enclosure protection	IP 67





DK4 PB EN 08_20.indd

Technical modification reserved.