Compression Force Sensor DK0

Scope of Supply

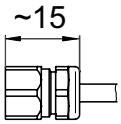
Compression force load cell with 5 m cable (PVC), axial cable outlet and connection variant T:
cable gland, straight

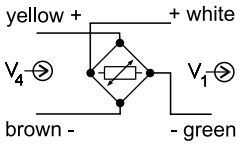
Additional Options

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

Connection

Variant T



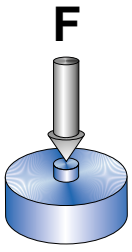


V_4 Supply voltage
V_1 Signal voltage

Special Features

- Minimum space requirement due to compact design
- Extremely robust
- Design in stainless steel

The sensors DK0 are especially designed for applications in smallest room (diameter and height) where relatively large forces must be measured reliably.



The compression force load cell of the DK0 series consists primarily of a single sensor element, designed and optimized with the finite element analysis.
Strain gauges applied to the active areas of the sensor body surface measure the force-proportional strains.
A downstream measuring amplifier from the *HAEHNE* -Program processes the measuring signals and supplies the strain gauge full bridge.

Ordering Example

DK0-50k-F

Type
Nominal Force
Options

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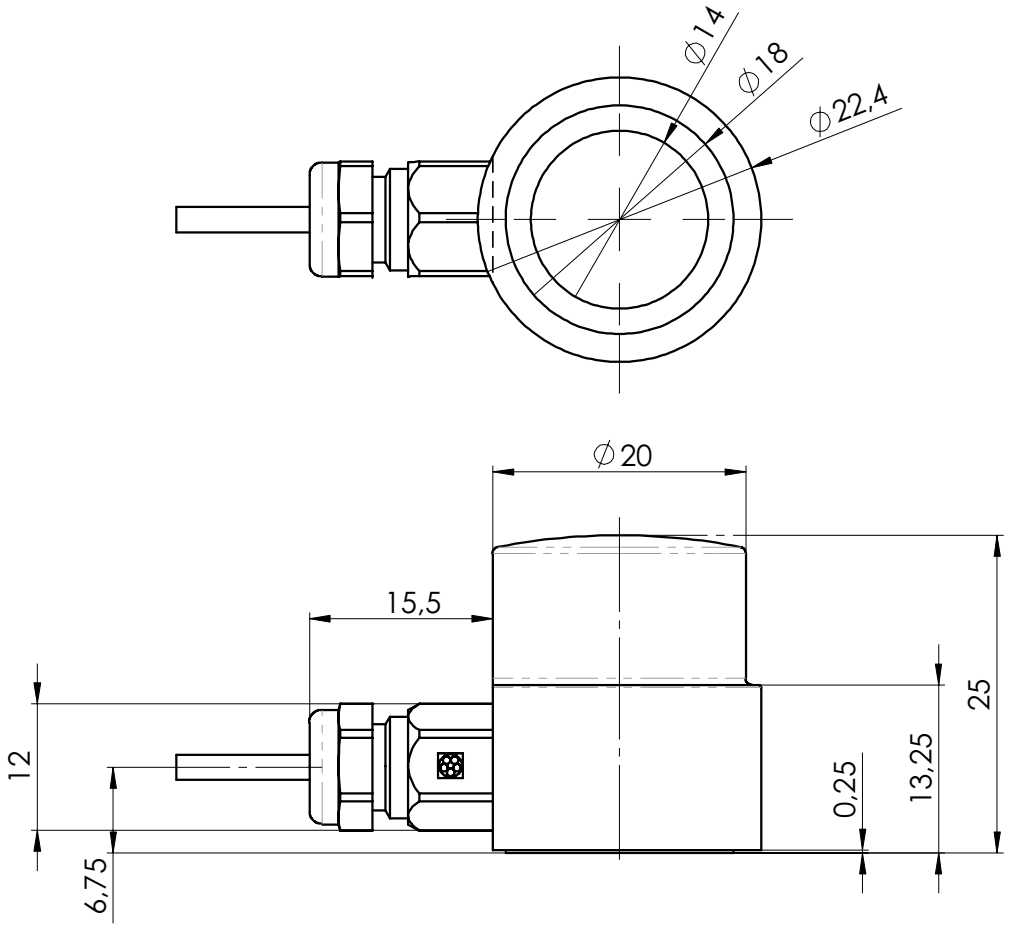
DK0

HAEHNE

Technical Data	Values (%) based on nominal force		
Nominal force [kN]	20	35	50
Nominal rating [mV/V]	0.5	1	1.5
Max. operating force [%]	160	140	100
Absolute max. force [%]	270	160	110
Combined 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 [Ω]	350		
Max. bridge supply voltage [VDC]	10		
Enclosure protection	IP 64		
Sensor cable	PVC grey, 4 x 0,14 mm²		



Dimensions in mm (1 mm = 0.03937 inches)

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