Compression Force Sensor DK5

Scope of Supply

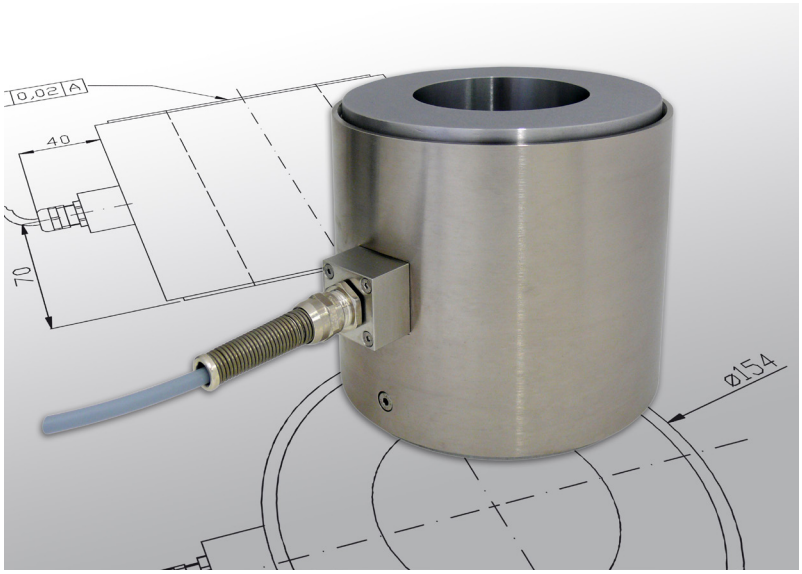
Force sensor with 5 m cable (PVC),
with cable connection T:
cable gland, straight;

Variant

N2: plug connection, straight, M12, moulded

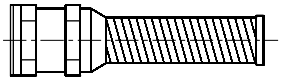
Additional Option

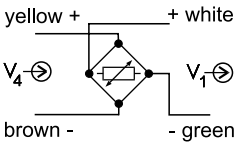
F: For use in explosive areas, incl. J-Box



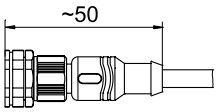
Connection

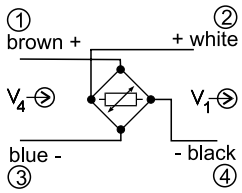
Variant T





Variant N2





V_4 Supply voltage
V_1 Signal voltage

Special Features

- Compact design for large forces
- Extremely robust
- Stainless steel

The sensors DK5 are especially designed for applications in harsh environments, where large forces must be measured reliably. The load cell basically consists of a cylindrical compression body, design 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:

DK5-2MN-TF

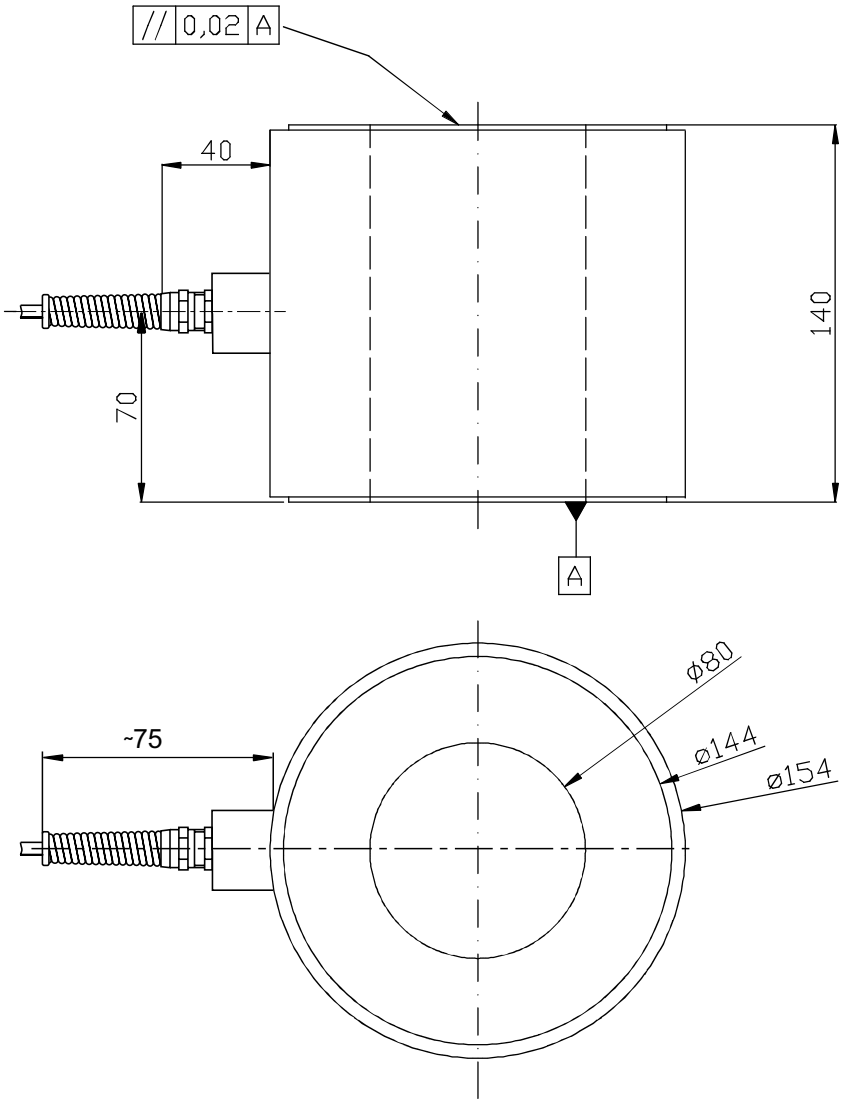
Type
Nominal force
Variant / Option

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DK5

Technical Data	% Values based on nomial force
Nominal force	1MN; 2 MN
Max. operating force	150 %
Absolute max. force	250 %
Nominal rating	1.5 mV/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
Max. bridge supply voltage	10 VDC
Enclosure protection	IP 64
Sensor cable	PUR, 4x0.34 mm², DIN47100

Dimensions in mm (1 mm = 0.03937 inches)



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