

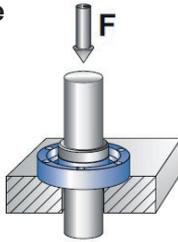
Ring force sensor RKS02M

Compact design

Nominal force: 500 kN

Stainless steel construction

Mounting type



RING FORCE SENSOR

The **RKS 02M** ring force sensors were developed for the precise measurement of large forces acting in the axial direction.

To do this, the force is applied via the contact surface. The solid inner ring forms the sensor element and operates on the compression body principle.

The force-proportional strains are detected by strain gauges distributed around the circumference and together form a full bridge.

The output signal is processed in the downstream amplifier, which is available in analog or fieldbus versions.

OPTIONS

Straight connector
N3: M8, sprayed

Plug connector with cable
W5: 5m Leitung
W10: 10m Leitung
W20: 20m Leitung

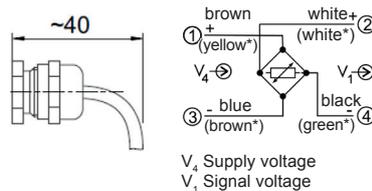
ADVANCED OPTIONS

F: Designed for operation in hazardous areas, incl. J-Box

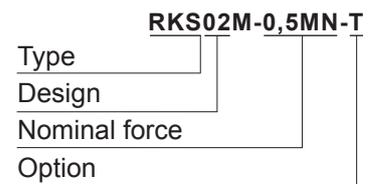
Increased temperature
H1: 120°C

STANDARD CONNECTION

Variant T



ORDERING EXAMPLE

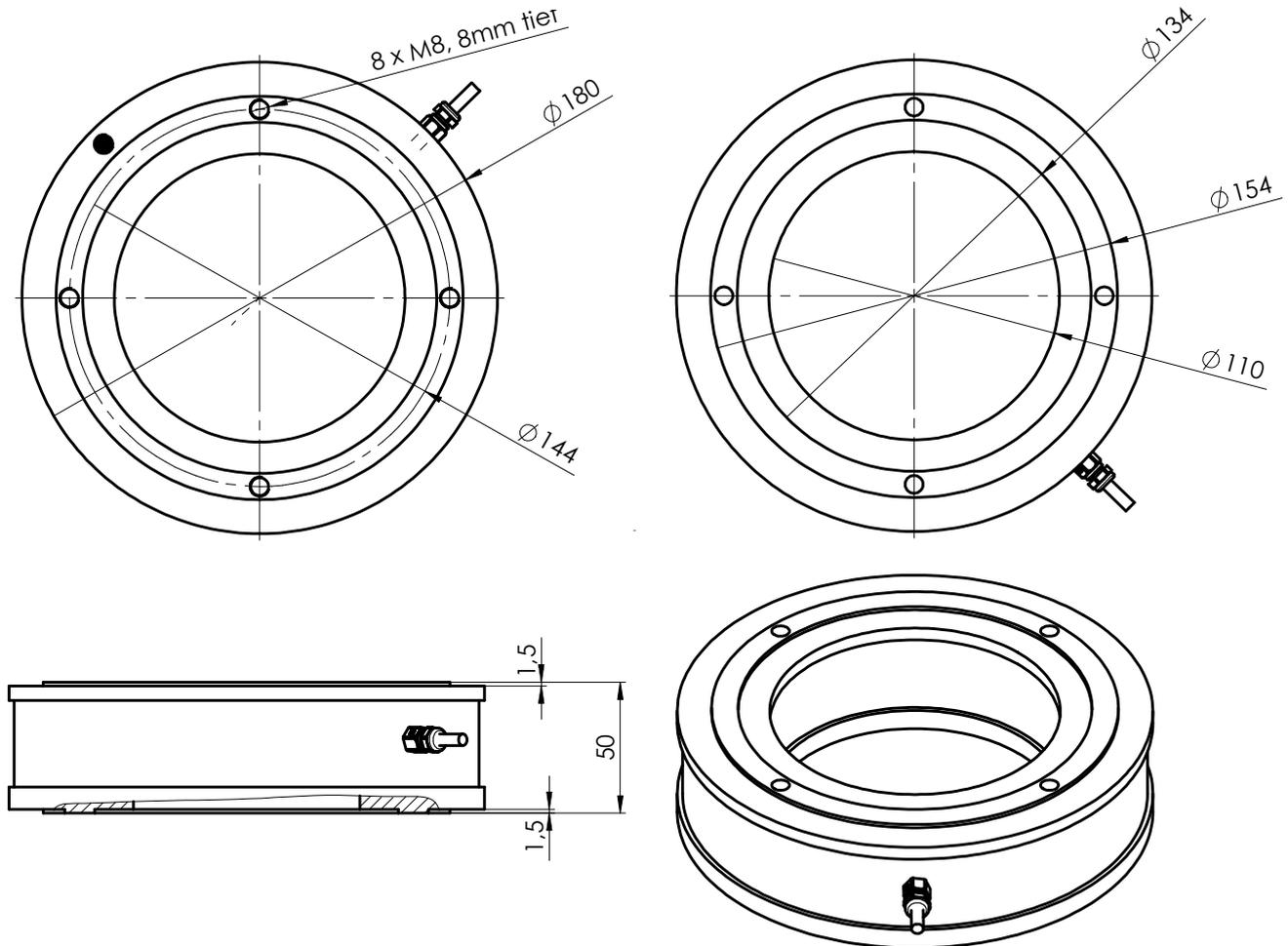


SCOPE OF DELIVERY

with a 5 m cable (PVC) and
Connection option T: straight
cable gland



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Technical data	Values (%) based on nominal force
Nominal forces (N)	0,5 MN
Max. operating force	160%
Absolute max. force	200%
Nominal rating	1,0 mV/V
Accuracy	1,0%
Reproducibility	0,05%
Measuring range	30:1
Nominal temperature range	+10...+60°C
Operating temperature range	-10...+70°C
Nominal resistance	1000 Ohm
Max. Supply voltage	10 VDC
Protection class	IP 42
Material	Edelstahl



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