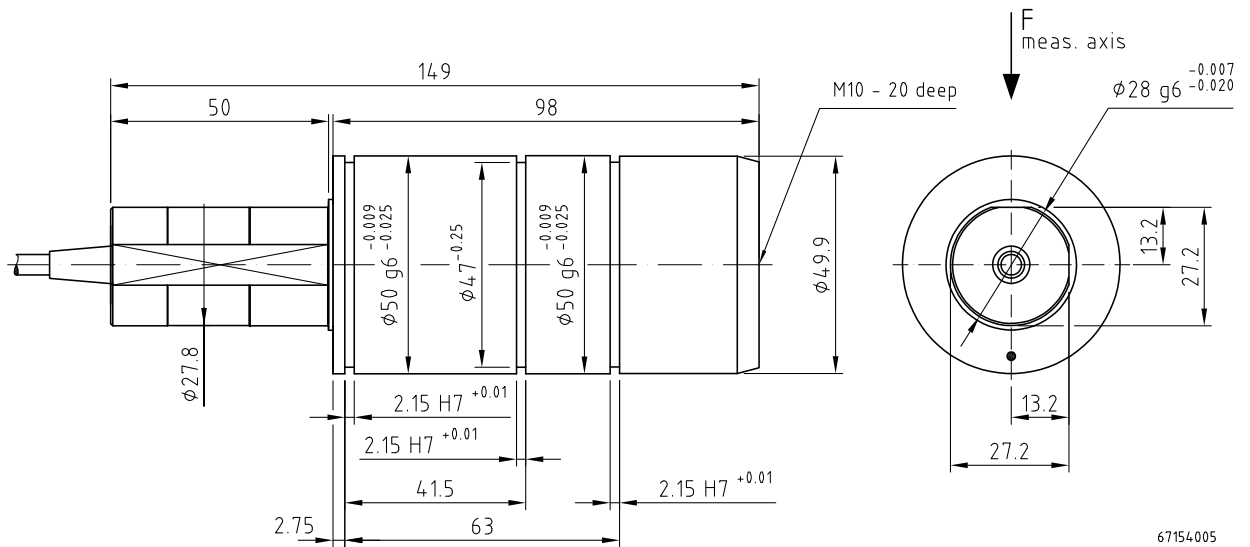


Scale drawing



All dimensions in mm

Rated measuring ranges

Nominal force [kN]					Axle journal Ø [mm]	Bearing seating Ø [mm]
0,5	1	2	3	4	28	50
5	10					

The measuring range of the sensor begins at the force's zero point.
Nominal forces differing from the list are available.

Order code

		RFS 200 S	- 5	- 28	- 3	- O
Sensor type						
Nominal force [kN]						
Axle journal Ø [mm]						
Length of cable [m]	standard:	3				
	option:	required length				
Connection	standard:	O with open ends				
	option:	S with male socket				

Scope of supply

- Sensor with connection cable

Technical design subject to change without prior notice. © 2021 by Honigmann

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Options / Special versions

- Connection cable with male plug
- Special connection cable, e.g. oil-resistant
- Special nominal force, differing from standard
- Extended rated temperature range -10 to 70°C
- Special dimensions differing from standard
- Type ES, for use as simple apparatus

Accessories

- Bracket assembly
- Guide rollers
- Rope pulleys

Technical data

Rated measuring ranges (F_N)	kN	0 to 0,5...0 to 10
Rated output	mV/V	1,0
Rated output tolerance	%	< $\pm 0,2$
Accuracy class		0,3
Excitation voltage max.	V	12
Reference excitation voltage	V	10
Input resistance	Ω	350 ± 3
Output resistance	Ω	350 ± 1
Isolation resistance	GΩ	> 10
Rated temperature range	°C	5 to 50, Option: -10 to 70
Operational temperature range		
- sensor	°C	-10 to 70
- connection cable	°C	-30 to 80
Storage temperature range	°C	-30 to 70
Reference temperature	°C	23
Temperature influence per 10 K		
- on the zero point (TK0)	% F_N	< $\pm 0,1$
- on the calibration (TKC)	% F_N	< $\pm 0,15$
Creep after 30 minutes	% F_N	< $\pm 0,05$
Linear output signal up to	% F_N	approx. 125
Mech. overload protection takes effect at	% F_N	approx. 140
Overload protected ¹	% F_N	200 to 400 (depending on nominal force)
Ultimate side load	% F_N	200
Deflection at nominal force	mm	0,07 to 0,25 (depending on nominal force)
Natural frequency of the sensor	kHz	> 0,25 (depending on nominal force)
Weight	kg	approx. 1,6
Connection cable		3 m long, flexible, shielded, 4 x 0,14 mm ² , total- \varnothing 4,5 mm
Sensor housing		high-tensile steel, black finishing
Protection class		IP 50

¹ radial incoming force without additional bending or tilting moment

Connections

Standard: Connection type „O“		Option: Connection type „S“	
<p>81057024</p>	<p>yellow</p> <p>brown</p> <p>white</p> <p>green</p> <p>transp. or black</p>	<p>+U_{Br}</p> <p>- U_{Br}</p> <p>+U_{Sig}</p> <p>- U_{Sig}</p> <p>Shield (not connected to housing)</p>	<p>Excitation</p> <p>Output</p>
	<p>View</p>	<p>1 +U_{Br}</p> <p>2 - U_{Br}</p> <p>3 Shield (not connected to housing)</p> <p>4 +U_{Sig}</p> <p>5 - U_{Sig}</p> <p>6 Reserved</p>	<p>Excitation</p> <p>Output</p>