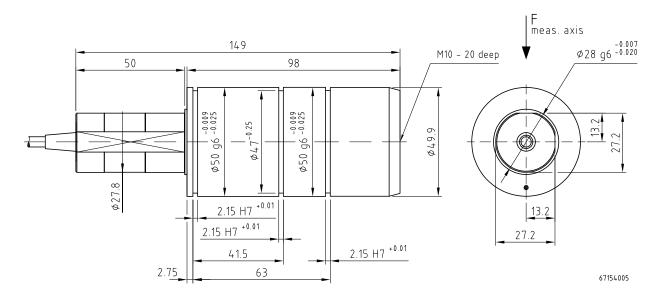
Radial force measuring axle

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	20	50		
5	10				28			

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	- 0
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

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RFS[®] 200 S

Radial force measuring axle

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

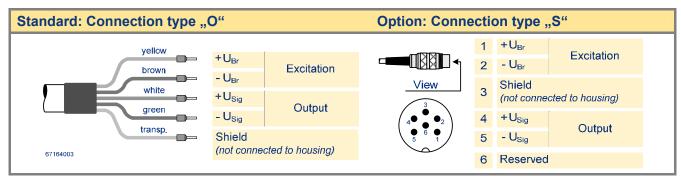
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Technical data

5				
Rated measuring ranges (F _N)	kN	0 to 0,50 to 10		
Rated output	mV/V	1,0		
Rated output tolerance	%	< ±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	< ±0,1		
- on the calibration (TKC)	% F _N	< ±0,15		
Creep after 30 minutes	% F _N	< ±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 mm², total-Ø 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



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