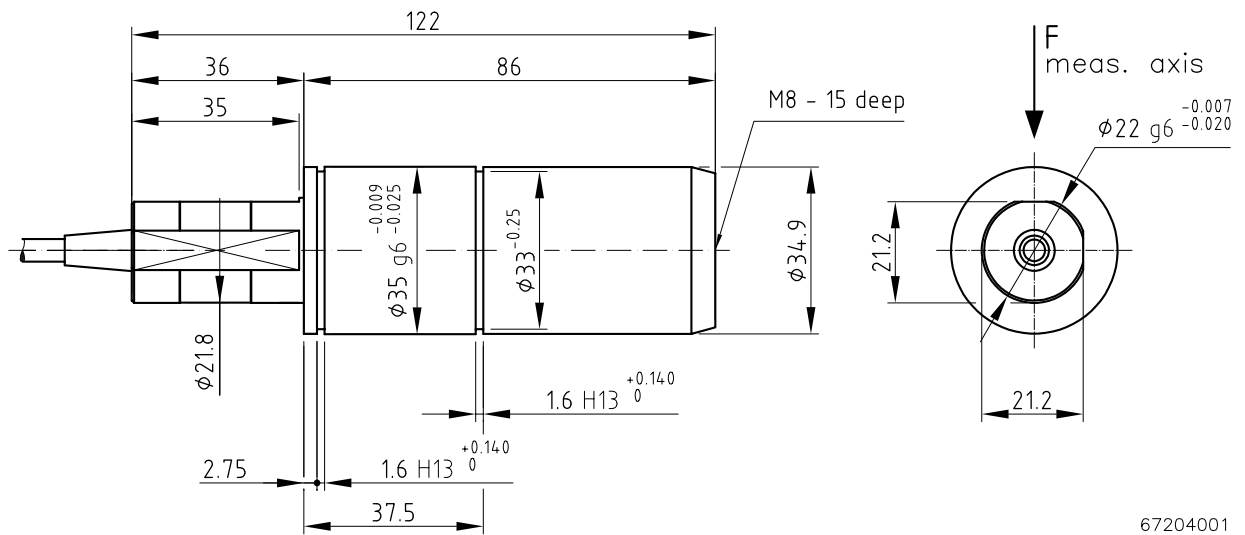


Scale drawing



All dimensions in mm

Rated measuring ranges

Nominal force [kN]						Axle journal Ø [mm]	Bearing seating Ø [mm]
0,5	1	2	3	4	5	22	35

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

Order code

				RFS 160 S	- 4	- 22	- 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 according to scale drawing

Options

- connection cable with male plug
- length of connection cable differing from standard
- special connection cable, e.g. oil-resistant or for use in Ex-protection areas

Special designs

- nominal forces differing from standard
- dimensions differing from standard

Accessories

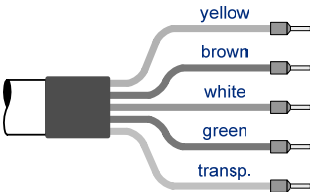
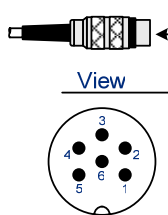
- bracket assembly
- guide rollers
- rope pulleys
- for Ex-protection, e.g. Zener-barrier

Technical data

Rated measuring ranges (F_N)	kN	0 to 0,5...0 to 5
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...50, Option: -10...70
Operational temperature range		
- sensor	°C	-10...70
- connection cable	°C	-30...80
Storage temperature range	°C	-30...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-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

Standard: Connection type „O“				Option: Connection type „S“			
 67164003	+ U_{Br}	Excitation			1	+ U_{Br}	Excitation
	- U_{Br}				2	- U_{Br}	
	+ U_{Sig}	Output			3	Shield (not connected to housing)	
	- U_{Sig}				4	+ U_{Sig}	Output
	Shield (not connected to housing)				5	- U_{Sig}	
					6	Reserved	