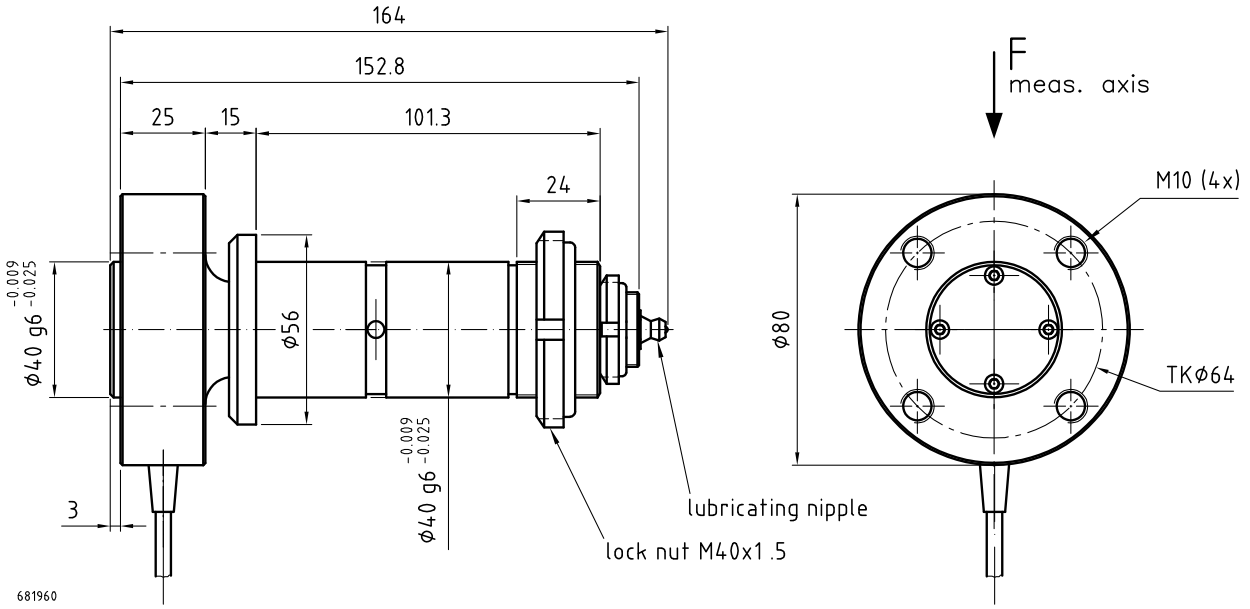
SK 122 SC
Radial force measuring axle

Scale drawing



All dimensions in mm

Rated measuring ranges

Nominal force [kN]							Bearing journal Ø [mm]		
2	3	4	5				40		

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

Order code

	SK 122 SC	- 2	- 40	- 3	- O
Sensor type					
Nominal force [kN]					
Bearing 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

Honigmann Industrielle Elektronik GmbH • In den Weiden 20 • 58285 Gevelsberg • ☎ +49-2332-55115-0 • 🖷 +49-2332-55115-99

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

SK 122 SC
Radial force measuring axle

Honigmann

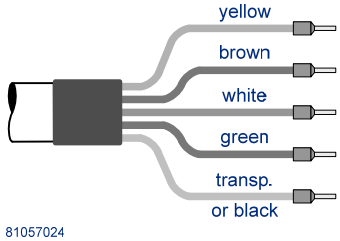
Technical data

Rated measuring ranges (F_N)	**kN**	0 to 2 / 0 to 3 / 0 to 4 / 0 to 5
Rated output	**mV/V**	1,0
Rated output tolerance	**%**	< ±0,1
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**	> 5
Rated temperature range	**°C**	-10 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 80
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**	100
Deflection at nominal force	**mm**	0,05 ±20%
Natural frequency of the sensor	**kHz**	> 3 (depending on nominal force)
Weight	**g**	approx. 450
Connection cable		3 m long, flexible, shielded, 4 x 0,25 mm², total-Ø 4,7 mm
Sensor housing		high-tensile steel, black finishing
Protection class		IP 65

[1] radial incoming force without additional bending or tilting moment

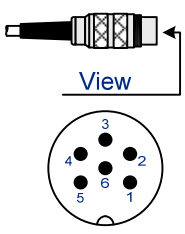
Connections

Standard: Connection type „O“



+U_{Br}	Excitation
-U_{Br}	
+U_{Sig}	Output
-U_{Sig}	
Shield *(not connected to housing)*	

Option: Connection type „S“



1	+U_{Br}	Excitation
2	-U_{Br}	
3	Shield *(not connected to housing)*	
4	+U_{Sig}	Output
5	-U_{Sig}	
6	Reserved	