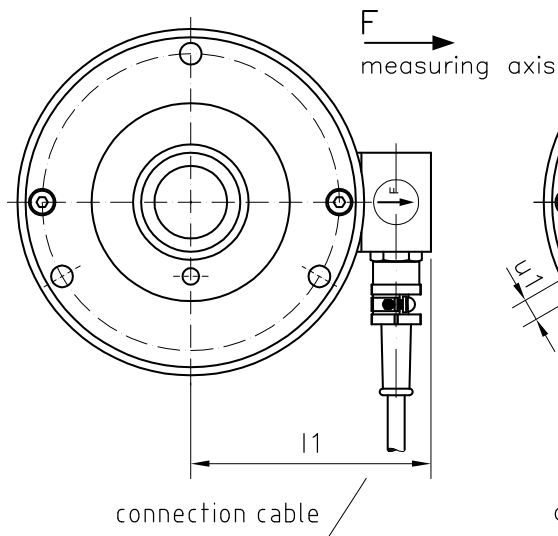
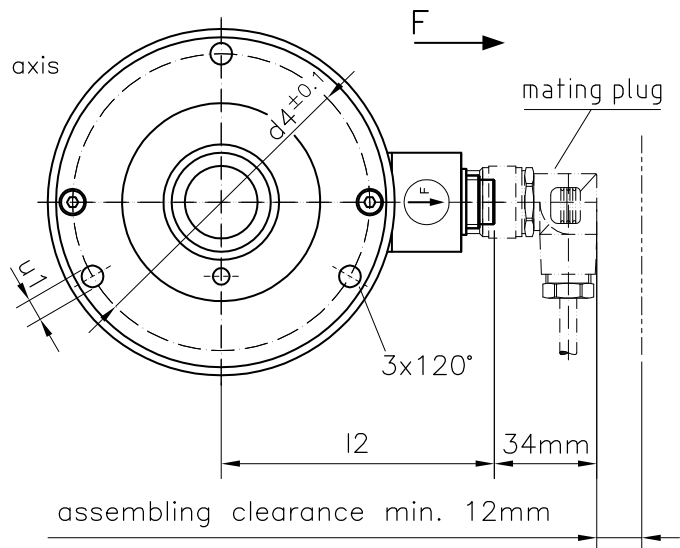


Scale drawing

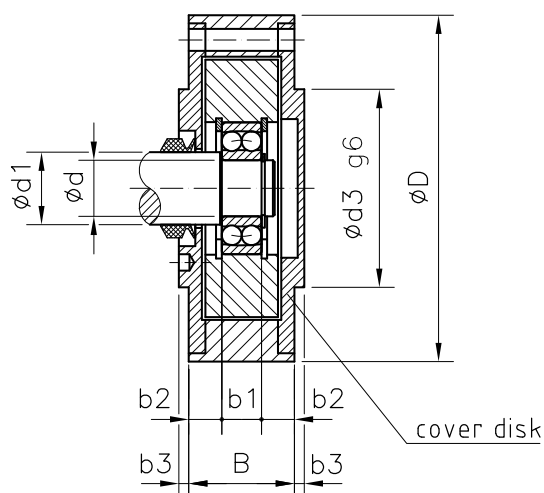
Connection K
with fixed cable



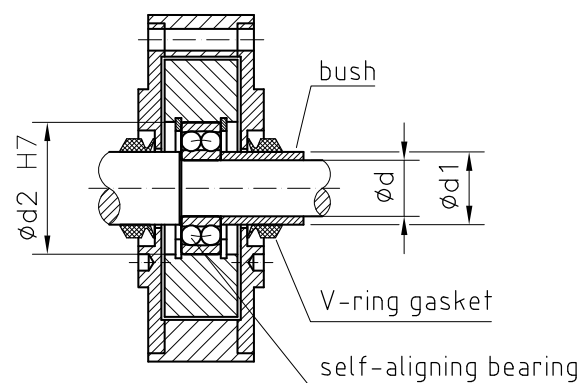
Connection S
with male socket



Design A
open cover disk on one side



Design B
open cover disk on both sides



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Recommended rolling bearings

Size	Inner-Ø d	Outer-Ø D	Width	Bearing short cut
	[mm]	[mm]	[mm]	DIN 630 / 635
1	12	32	10	1201
	15	35	11	1202
	17	40	12	1203
2	20	47	14	1204
	25	52	15	1205
3	30	72	19	1306 / 21306
	35	80	21	1307 / 21307
4	40	90	23	1308 / 21308
	45	100	25	1309 / 21309
	55	100	25	2211 / 22211

The bearings **are not included** in the scope of supply, but they can be ordered separately.

Options

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

Special designs

- nominal forces differing from standard
- sensor housing and measuring cell made out of stainless steel, for use in humid environment
- bearing seating without spring ring groove for the bearing in non-locating position, esp. for use at large linear expansion of the fitted measuring roll
- angle situation of the mounting holes
- advanced temperature range
- for measurement in vacuum

Accessories

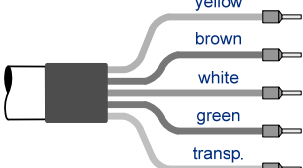
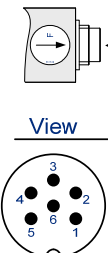
- female angled connector as mating plug
- adjusting collar with fixing pin
- rolling bearings
- for Ex-protection, e.g. Zener-barrier

Technical data

Rated measuring ranges (F_N) for construction size BG1 to BG4	N	0 to 50...0 to 5000
Measuring principle		full strain gauge bridge
Rated output	mV/V	1,0
Rated output tolerance	%	$< \pm 0,2$
Accuracy class		0,1
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	$^{\circ}\text{C}$	5 to 50, option: -10 to 70
Operational temperature range		
- sensor	$^{\circ}\text{C}$	-10 to 70
- connection cable	$^{\circ}\text{C}$	-30 to 80
Storage temperature range	$^{\circ}\text{C}$	-30 to 70
Reference temperature	$^{\circ}\text{C}$	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. 150
Mech. overload protection takes effect at	% F_N	approx. 180
Overload protected ¹	% F_N	400-800 (depending on nominal force)
Ultimate side load	% F_N	200
Deflection at nominal force	mm	$0,10 \pm 20\%$
Connection cable		5 m long, flexible, shielded, 4 x 0,25 mm ² , total-Ø 4,7 mm
Sensor housing		high-tensile steel, black finishing
Protection class		IP 54

¹ radial incoming force without additional bending or tilting moment

Connections

Connection type „K“			Connection type „S“				
	yellow	+ U _{Br}	Excitation		1 + U _{Br}	Excitation	
	brown	- U _{Br}			2 - U _{Br}		
	white	+ U _{Sig}	Output		3 Shield (not connected to housing)	Output	
	green	- U _{Sig}			4 + U _{Sig}		
	transp.	Shield (not connected to housing)			5 - U _{Sig}	Reserved	

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