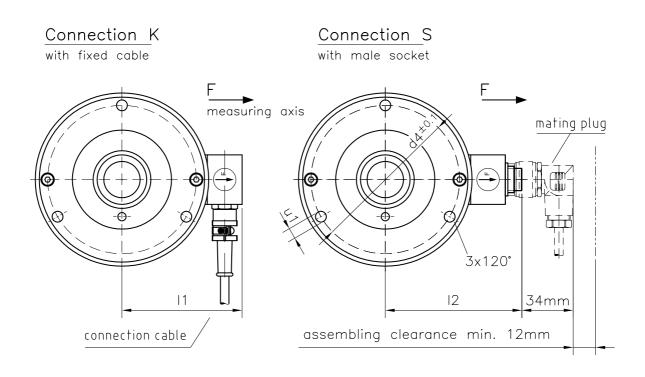
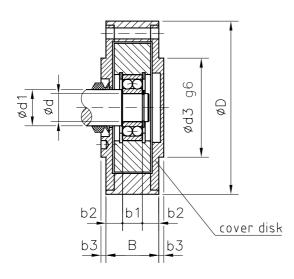
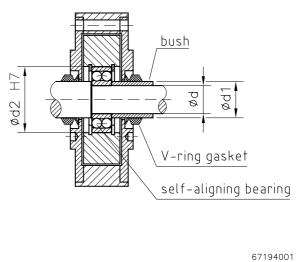
Scale drawing



Design A open cover disk on one side



Design B open cover disk on both sides



Technical design subject to change without prior notice. © 2008 by Honigmann



Rated measuring ranges

Size	Nominal force [N]								
1	50	100	200	500	1000				
2			200	500	1000	2000			
3				500	1000	2000	3000	4000	
4					1000	2000	3000	4000	5000

The measuring range of the sensor begins at force's zero point.

Nominal forces differing from the list are available.

Dimensions and weights

Size	As	Assembly dimensions [mm]									Weight				
		d	d1	d2	d3	d4	D	b1	b2	b3	В	11	12	u1	[kg]
		12	16	32				10	11						
1		15	20	35	60	90	105	11	10,5	3	32	73	87	6,6	1,8
	*	17	22	40				12	10						
2		20	25	47	70	105	125	14	13	4	40	83	97	6,6	3,2
_	*	25	32	52				15	12,5						
3		30	40	72	100	150	150 175	19	19	4	57	109	123	9	0.2
3	*	35	45	80	100			21	18	4	57	109	123	9	8,3
		40	50	90				23	22						
4	*	45	45 55 100 130	190	190 225	25	21	4	67	130	144	11	16,0		
		55	65	100				25	21						

^{*} Preferred construction size

Order code

				WT	S	1	17	Α	100	K5
Sensor type										
Construction size										
Shaft Ød [mm]							_			
Design	A open cover disk at one side									
	B open cover disk at both sides									
Nominal force [N]										
Connection	K	with fixed cable,	standard:	5m						
			option:	required le	ngth	[m]				
	S	with male socket								

Scope of supply

- sensor
- spring rings
- V-ring gasket



Recommended rolling bearings

Size	Inner-Ø d	Outer-Ø D	Width	Bearing short cut		
	[mm]	[mm]	[mm]	DIN 630 / 635		
	12	32	10	1201		
1	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		
	40	90	23	1308 / 21308		
4	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 500 to 5000		
Measuring principle		full strain gauge bridge		
Rated output	mV/V	1,0		
Rated output tolerance	%	< ±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	°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. 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 ±20%		
Connection cable		5 m long, flexible, shielded, 4 x 0,25 mm², 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

