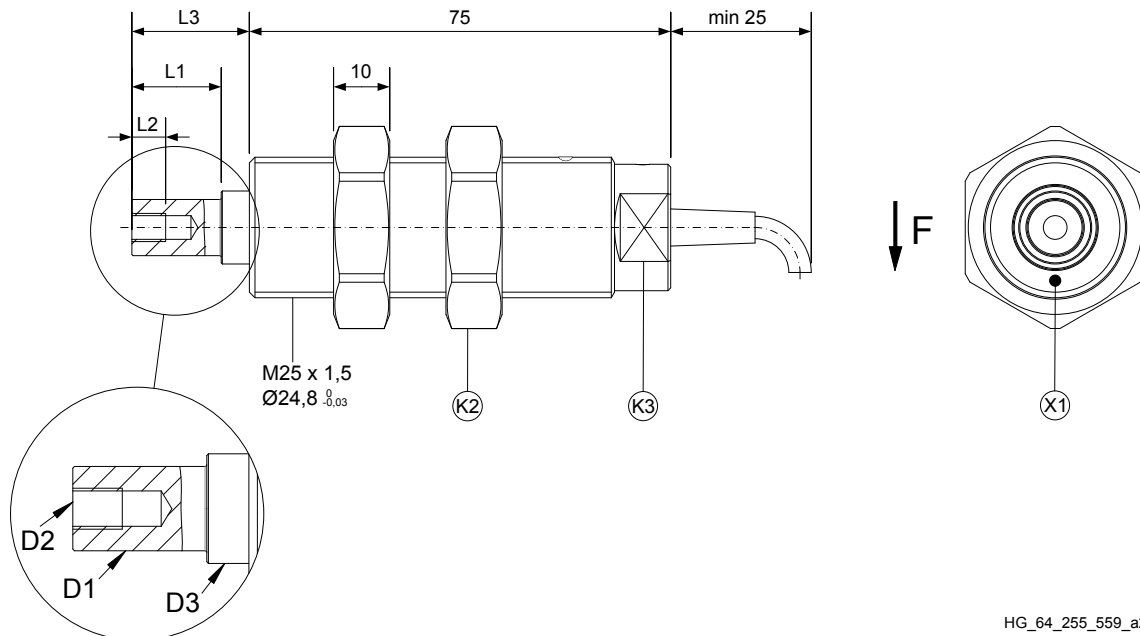


Scale drawing



HG_64_255_559_a2

All dimensions in mm

X1: red mark indicates the position of the measuring axis

Rated measuring ranges

Nominal force [N]							Bearing journal Ø [mm]			
1*	2*	3*	4*				5	8	10	
5	10	20	30	40			5	8	10	
50	60	100	200	300	400			8	10	12
500	600	1000**							10	12
			2000**	3000**						12

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

Bearing journals and nominal forces differing from the list are available.

* Special type LR (Low Range)

** Special type HR (High Range)

Dimensions

Bearing journal Ø							
D1 $\begin{smallmatrix} -0,006 \\ -0,01 \end{smallmatrix}$	L1 $\begin{smallmatrix} +0,02 \\ 0 \end{smallmatrix}$	D2	L2	D3	L3	K2	K3
5	9,9	M3	6	7	12,9	WAF 32	WAF 19
8	11,9	M4	6	10	15,9	WAF 32	WAF 19
10	15,9	M5	8	11	20,9	WAF 32	WAF 19
12	19,9	M6	10	14	24,9	WAF 32	WAF 19

All dimensions in mm

WAF: width across flats

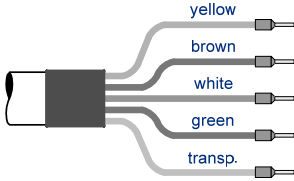
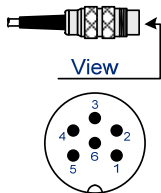
Non-standard bearing journal dimensions and housing execution upon request

Technical Data

Rated measuring ranges (FN)	N	0 - 1 to 0 - 3000
Rated output	mV/V	1,5
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	°C	-10 to 70
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	400 to 800 (depending on nominal force)
Ultimate side load	% F_N	200
Deflection at nominal force	mm	0,07 ± 20%
Typ. natural frequency of the sensor	kHz	1 ... 3 (depending on nominal force)
Weight	g	approx. 400
Protection class		IP 50
Sensor housing and nuts		stainless steel
Connection cable		3m long, flexible, shielded 4 x 0,14mm ² , total Ø 4,5 mm

(#1) radial incoming force without additional bending or tilting moment

Connections

Standard: Connection type „O“		Option: Connection type „S“																									
	<table><tr><td>+ U_{Br}</td><td rowspan="2">Excitation</td></tr><tr><td>- U_{Br}</td></tr><tr><td>+ U_{Sig}</td><td rowspan="2">Output</td></tr><tr><td>- U_{Sig}</td></tr><tr><td>Shield (not connected to housing)</td><td></td></tr></table>	+ U _{Br}	Excitation	- U _{Br}	+ U _{Sig}	Output	- U _{Sig}	Shield (not connected to housing)			<table><tr><td>1</td><td>+ U_{Br}</td><td rowspan="2">Excitation</td></tr><tr><td>2</td><td>- U_{Br}</td></tr><tr><td>3</td><td>Shield (not connected to housing)</td><td></td></tr><tr><td>4</td><td>+ U_{Sig}</td><td rowspan="2">Output</td></tr><tr><td>5</td><td>- U_{Sig}</td></tr><tr><td>6</td><td>Reserved</td><td></td></tr></table>	1	+ U _{Br}	Excitation	2	- U _{Br}	3	Shield (not connected to housing)		4	+ U _{Sig}	Output	5	- U _{Sig}	6	Reserved	
+ U _{Br}	Excitation																										
- U _{Br}																											
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5	- U _{Sig}																										
6	Reserved																										

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Order code

	RFS 150	- 50	- 10	- 3	- O
Sensor type					
Nominal force [N]					
Bearing journal Ø [mm]					
Cable length [m]	Standard: 3m Option: required length				
Cable connection	Standard: O (open ends) Option: S (connector)				

Scope of supply

- Sensor with connection cable
- Protection cap

Accessories

The following accessories are available:

- Bearing journal adapter
- Winding protection
- Ceramic pin with holder
- Clamping flange for flange mounting

Options / Special versions

- Extended rated temperature range -10 to 70°C
- Seal gas protection
- Cylindrical sensor housing (without outside thread)
- Modified thread housing
- Vacuum design
- Custom-specific bearing journal
- Special nominal force, differing from standard
- High natural frequency (HF)
- 2nd measuring axis (XY)
- Type ES, for use as simple apparatus

Technical design subject to change without prior notice. © 2017 by Honigmann

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