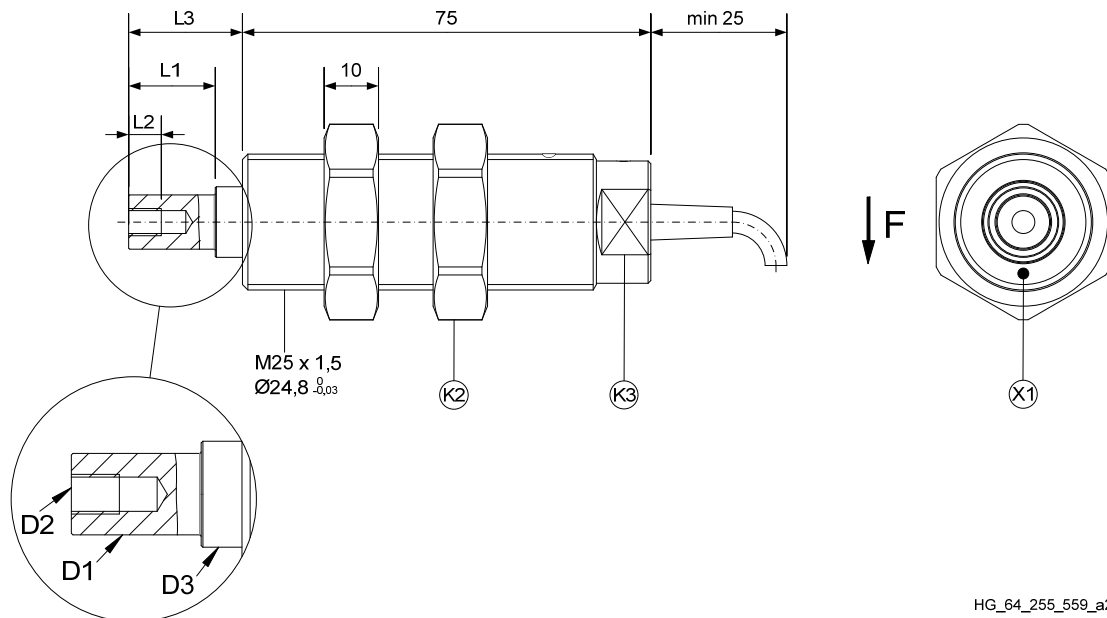


**Scale drawing**



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)

\*\*\* Special type XR (eXtended Range)

**Dimensions**

Bearing journal Ø									
D1	-0,006 -0,01	L1	+0,02 0	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	13	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

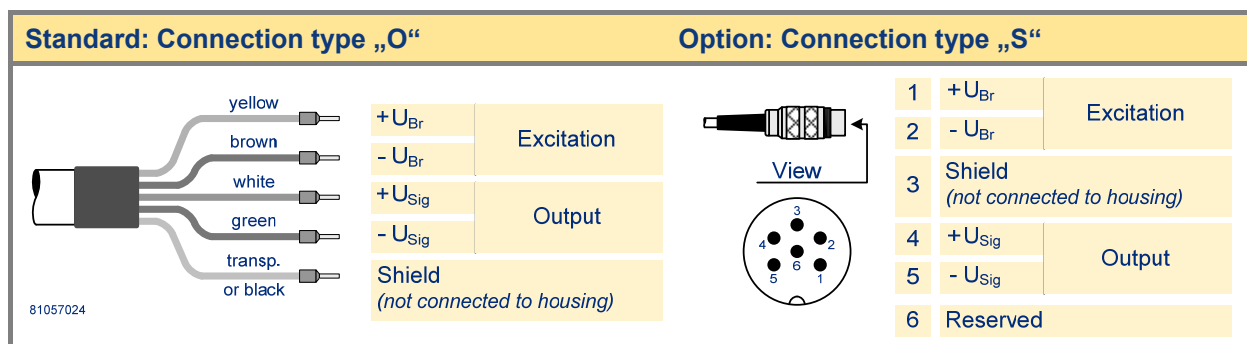
**Technical Data**

Rated measuring ranges (FN)	<b>N</b>	0 - 1 to 0 - 3000
Rated output	<b>mV/V</b>	1,0 or 1,5 (depending on nominal force) #2
Rated output tolerance	<b>%</b>	< ± 0,2
Accuracy class		0,1
Excitation voltage max.	<b>V</b>	12
Reference excitation voltage	<b>V</b>	10
Input resistance	<b>Ω</b>	350 ± 3
Output resistance	<b>Ω</b>	350 ± 1
Isolation resistance	<b>GΩ</b>	> 10
Rated temperature range	<b>°C</b>	5 to 50, Option: -10 to 70
Operational temperature range	<b>°C</b>	-10 to 70
Storage temperature range	<b>°C</b>	-30 to 70
Reference temperature	<b>°C</b>	23
Temperature influence per 10 K		
- on the zero point (TK0)	<b>% FN</b>	< ± 0,1
- on the calibration (TKC)	<b>% FN</b>	< ± 0,15
Creep after 30 minutes	<b>% FN</b>	< ± 0,05
Linear output signal up to	<b>% FN</b>	approx. 125
Mech. overload protection takes effect at	<b>% FN</b>	approx. 140
Overload protected (#1)	<b>% FN</b>	400 to 800 (depending on nominal force)
Ultimate side load	<b>% FN</b>	200
Deflection at nominal force	<b>mm</b>	0,07 ± 20%
Typ. natural frequency of the sensor	<b>KHz</b>	1 ... 3 (depending on nominal force)
Weight	<b>g</b>	approx. 400
Protection class		IP 50
Sensor housing and nuts		stainless steel
Connection cable		3m long, flexible, shielded 4 x 0,14mm <sup>2</sup> , total Ø 4,5 mm

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

(#2) see specification on type label

**Connections**



## 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: <b>O</b> (open ends) Option: <b>S</b> (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)
- 2<sup>nd</sup> measuring axis (XY)
- Type ES, for use as simple apparatus

Technical design subject to change without prior notice. © 2022 by Honigmann

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