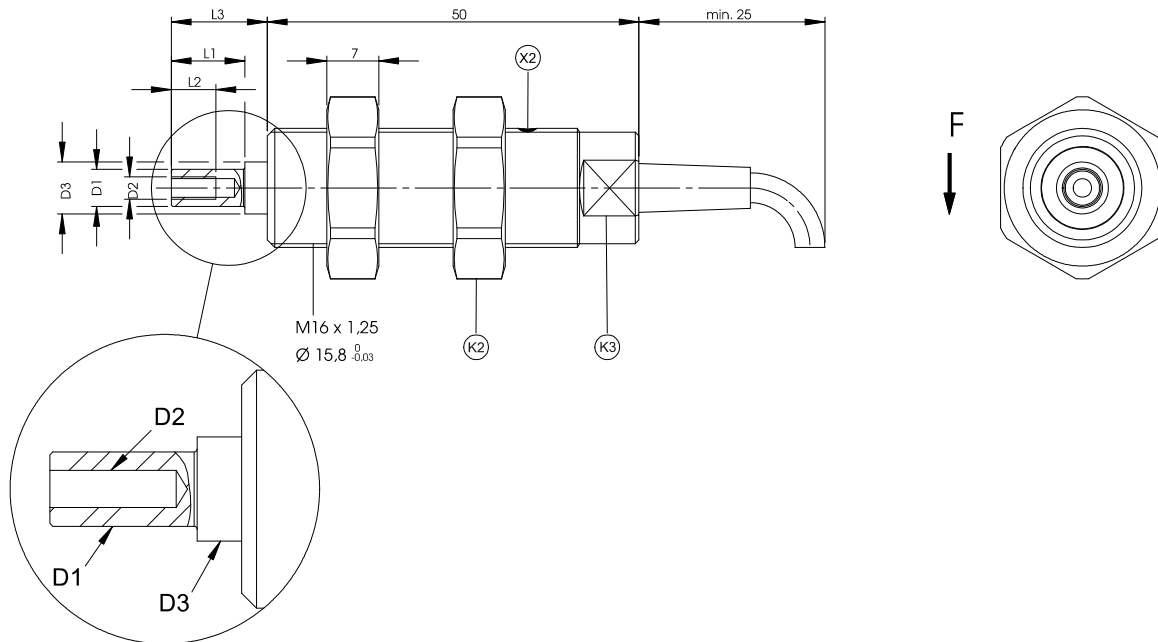


Scale drawing



HG_64_256_546a

All dimensions in mm

X2: red mark indicates the position of the measuring axis

Rated measuring ranges

Nominal force [N]							Bearing journal Ø [mm]		
2*	3*	4*					5	8	10
5	10	20	30	40			5	8	10
50	60	100						8	10

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

Nominal forces differing from the list are available.

* Special type LR (Low 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 22	WAF 13
8	11,9	M4	6	10	15,9	WAF 22	WAF 13
10	15,9	M5	8	11	20,9	WAF 22	WAF 13

All dimensions in mm

WAF: width across flats

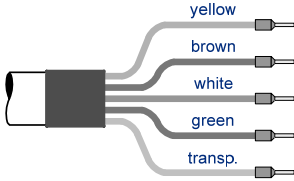
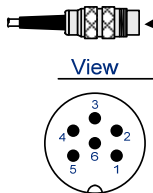
Non-standard dimensions and execution upon request

Technical Data

Rated measuring ranges (FN)	N	0 - 2 to 0 - 100
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	°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	0,04 ± 20%
Typ. natural frequency of the sensor	kHz	1 ... 3 (depending on nominal force)
Weight	g	approx. 150
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“		
	+ U _{Br}	Excitation		1 + U _{Br}	Excitation
	- U _{Br}				
	+ U _{Sig}	Output		3 Shield (not connected to housing)	
	- U _{Sig}				
	Shield (not connected to housing)			4 + U _{Sig}	Output
			5 - U _{Sig}		
		6 Reserved			

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Order code

	RFS 100	- 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
- 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)
- Type ES, for use as simple apparatus