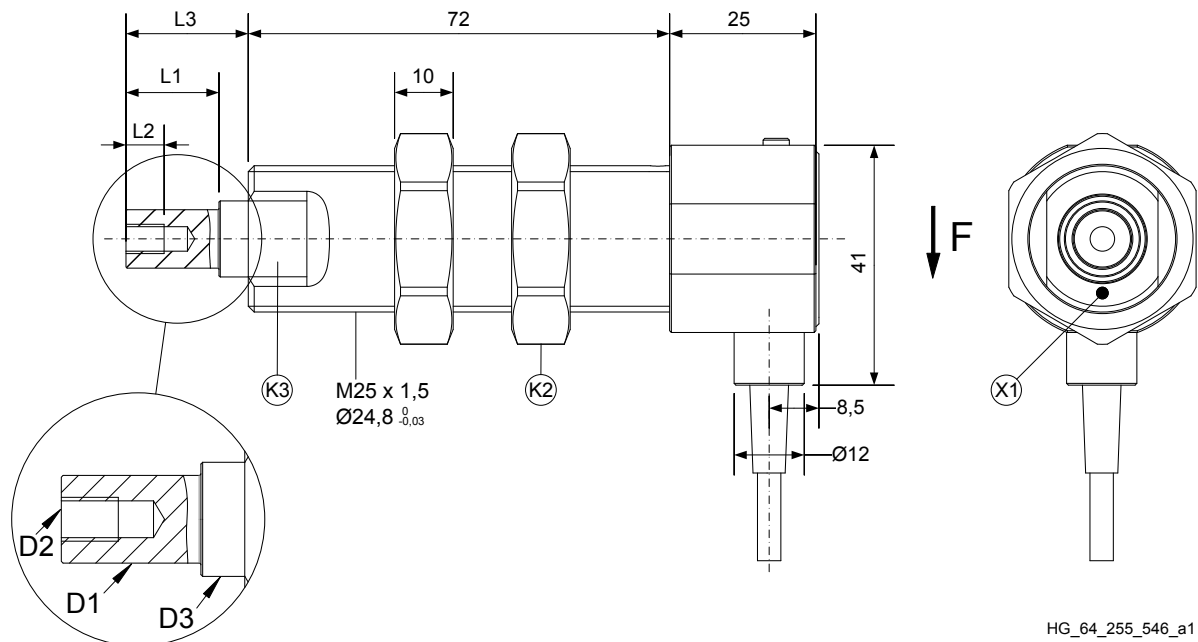


### Scale drawing



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**						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	L1	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

Type		RFS <sup>®</sup> 150-E
Rated measuring ranges (FN)	<b>N</b>	0 - 1 to 0 - 2000
Accuracy class		0,1
Supply voltage	<b>V DC</b>	20 to 28
Current consumption (without load)	<b>mA</b>	approx. 36
Output		
- Voltage (Standard)	<b>V</b>	0 to ±10, $R_L \geq 10k\Omega$
- Current 0-20mA (Option)	<b>mA</b>	0 to 20, admissible load 0 to 300Ω
- Current 4-20mA (Option)	<b>mA</b>	4 to 20, admissible load 0 to 300Ω
Cut-off frequency $f_c$ (-3dB)	<b>HZ</b>	70
Rated temperature range	<b>°C</b>	5 to 50
Operational temperature range	<b>°C</b>	-10 to 50
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>% F<sub>N</sub></b>	< ± 0,2
- on the calibration (TKC)	<b>% F<sub>N</sub></b>	< ± 0,15
Creep after 30 minutes	<b>% F<sub>N</sub></b>	< ± 0,05
Linear output signal up to	<b>% F<sub>N</sub></b>	approx. 125
Mech. overload protection takes effect at	<b>% F<sub>N</sub></b>	approx. 140
Overload protected <sup>(#1)</sup>	<b>% F<sub>N</sub></b>	400 to 800 (depending on nominal force)
Ultimate side load	<b>% F<sub>N</sub></b>	200
Deflection at nominal force	<b>mm</b>	0,07 ± 20%
Typ. natural frequency of the sensor	<b>kHz</b>	1 to 3 (depending on nominal force)
Weight	<b>g</b>	approx. 400
Connection cable		3m long, flexible, shielded 4 x 0,14mm <sup>2</sup> , total $\varnothing$ 4,5 mm
Sensor housing and nuts		stainless steel
Protection class		IP 50

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

### Connections

Standard: Connection type „O“		Option: Connection type „S“	
	yellow	+24V DC	Power supply
	white	⌊ GND	Power supply
	green	Signal	Output
	brown	⌊ GND	Output
	transp.	Shield (not connected to housing)	
	1	+24V DC	Power supply
	4	⌊ GND	Power supply
	3	Signal	Output
	5	⌊ GND	Output
	2	Shield (not connected to housing)	

## Order code

	RFS 150-E	- 50	- 10	- 3	- O	-10
Sensor type						
Nominal force [N]						
Bearing journal Ø D1 [mm]						
Cable length [m]	Standard: 3m Option: required length					
Cable connection	Standard: <b>O</b> (open ends) Option: <b>S</b> (connector)					
Output signal	Standard: <b>10</b> (0-10V) Option: <b>0-20</b> (0-20mA) <b>4-20</b> (4-20mA)					

## 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

- Cylindrical sensor housing (without outside thread)
- Modified thread housing
- Custom-specific bearing journal
- Special nominal force, differing from standard
- Custom-specific orientation of terminal housing

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