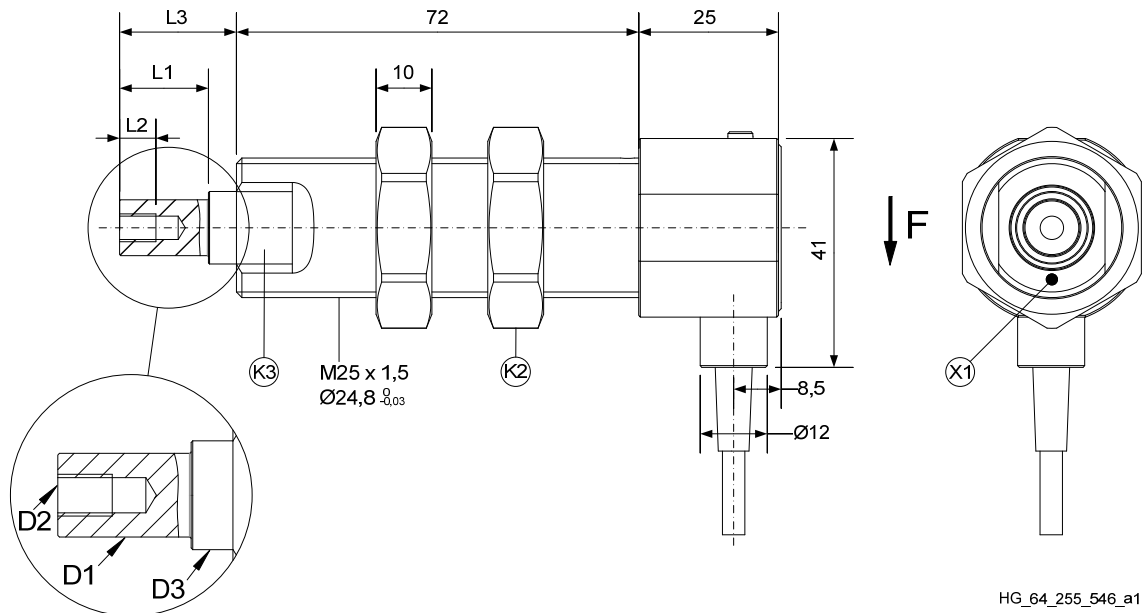


Scale drawing



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)

*** Special type XR (eXtended 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

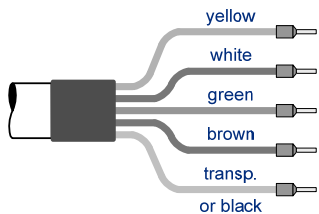
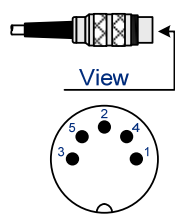
Non-standard bearing journal dimensions and housing execution upon request

Technical Data

Type		RFS® 150-E
Rated measuring ranges (FN)	N	0 - 1 to 0 - 2000
Accuracy class		0,1
Supply voltage	V DC	20 to 28
Current consumption (without load)	mA	approx. 36
Output		
- Voltage (Standard)	V	0 to ± 10 , $R_L \geq 10k\Omega$
- Current 0-20mA (Option)	mA	0 to 20, admissible load 0 to 300 Ω
- Current 4-20mA (Option)	mA	4 to 20, admissible load 0 to 300 Ω
Cut-off frequency f_c (-3dB)	HZ	70
Rated temperature range	°C	5 to 50
Operational temperature range	°C	-10 to 50
Storage temperature range	°C	-30 to 70
Reference temperature	°C	23
Temperature influence per 10 K		
- on the zero point (TK0)	% F_N	$< \pm 0,2$
- on the calibration (TKC)	% F_N	$< \pm 0,15$
Creep after 30 minutes	% F_N	$< \pm 0,05$
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	$0,07 \pm 20\%$
Typ. natural frequency of the sensor	kHz	1 to 3 (depending on nominal force)
Weight	g	approx. 400
Connection cable		3m long, flexible, shielded 4 x 0,14mm ² , 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					
	green	Signal	Output				
	brown	⌞ GND					
	transp. or black	Shield <i>(not connected to housing)</i>					
81057025					1	+24V DC	Power supply
					4	⌞ GND	
					3	Signal	Output
					5	⌞ GND	
					2	Shield <i>(not connected to housing)</i>	

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: O (open ends) Option: S (connector)					
Output signal	Standard: 10 (0-10V) Option: 0-20 (0-20mA) 4-20 (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

Technical design subject to change without prior notice. © 2021 by Honigmann

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