

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

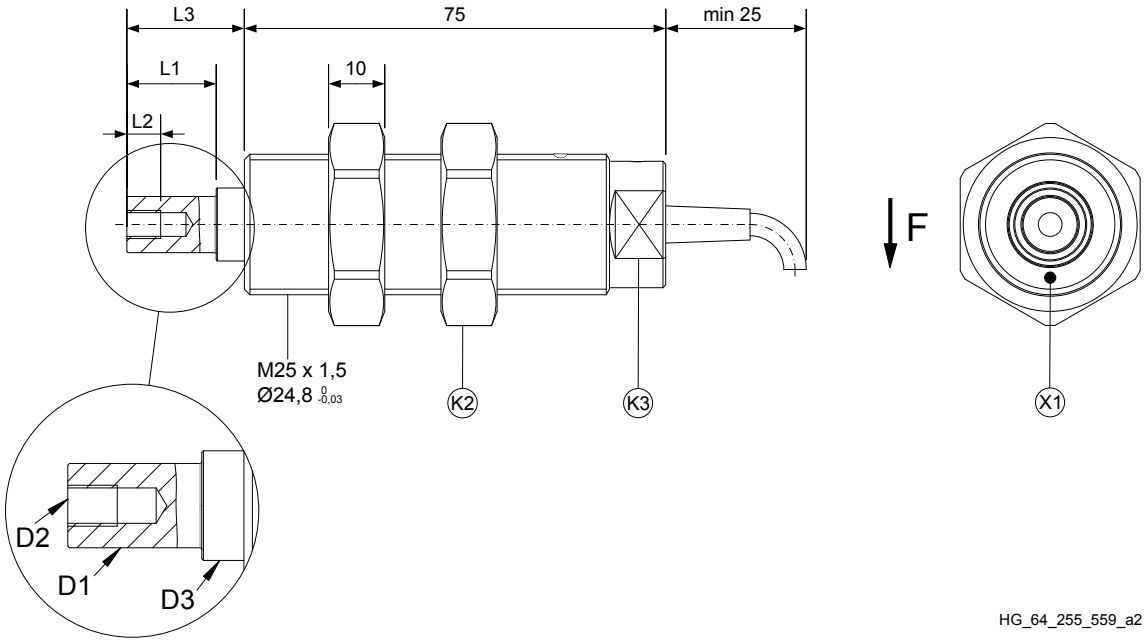
Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

RFS® 150
Radial force measuring axle

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**	4000**	5000**				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 -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	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

RFS® 150
Radial force measuring axle

Honigmann

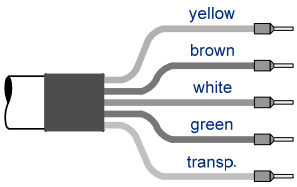
Technical Data

Rated measuring ranges (FN)	**N**	0 - 1 to 0 - 5000
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 0,14mm², total ∅ 4,5 mm

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

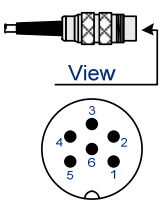
Connections

Standard: Connection type „O“



+ U_{Br}	Excitation	
- U_{Br}		
+ U_{Sig}	Output	
- U_{Sig}		
Shield *(not connected to housing)*		

Option: Connection type „S“



1	+ U_{Br}	Excitation
2	- U_{Br}	
3	Shield *(not connected to housing)*	
4	+ U_{Sig}	Output
5	- U_{Sig}	
6	Reserved	

67164003

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. © 2015 by Honigmann

Honigmann Industrielle Elektronik GmbH • Krebsstraße 2-8 • D-42289 Wuppertal • ☎ +49-202-870972-0 • 🖷 +49-202-870972-99

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP