

Force Sensor K-2565 with Rated Force 1500 N



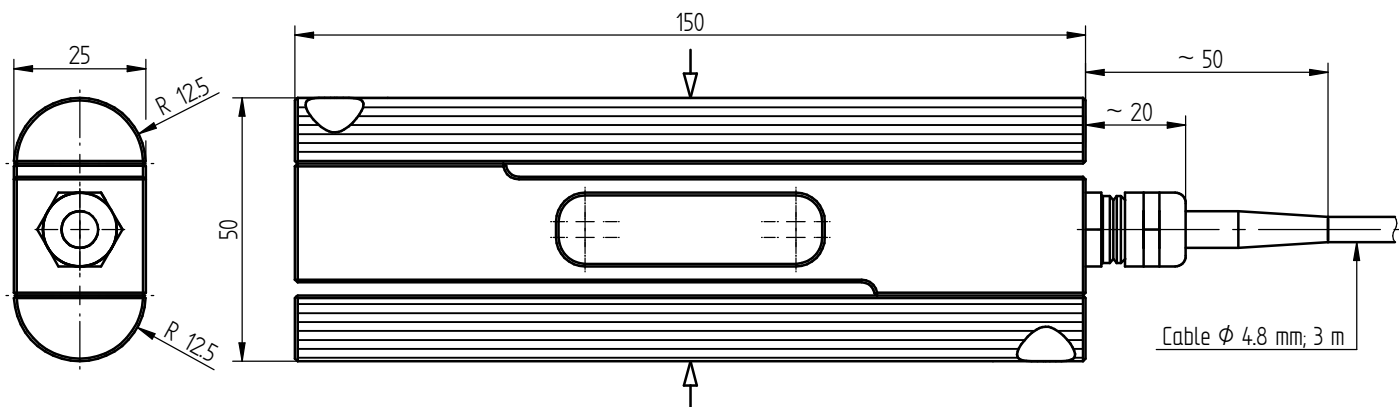
Performance Features

- Force sensor for hand force measurement
- TEDS (Transducer Electronic Data Sheet) Standard IEEE 1451.4 (optional)
- Very compact design
- Reliable and durable
- Long-term stability
- Level of protection IP67
- Special versions on request

Application

- Medical Diagnostics
- Rehabilitation centers
- Sports Medicine
- Dynamometry
- Biomechanics

Dimensions in mm



Article-No.	Rated Force [N]	Weight [kg]
46077	1500	1.2

Connection Assignment

Electrical connection		
Excitation (-)	Green	●
Excitation (+)	Brown	●
Signal (+)	Yellow	●
Signal (-)	White	○
Control signal or TEDS (option)	Gray	●
Shielding	Shield	⊥

Technical Data acc. to VDI/VDE/DKD 2638

Force Sensor K-2565

Rated force F_{nom}	N	1500
Accuracy class	% F _{nom}	0.1
Rel. repeatability error in unchanged mounting position b_{rg}	% F _{nom}	0.1
Relative creep	% F _{nom} /30 min	< ±0.1
Rated characteristic value C_{nom}	mV/V	1.00 ±20 %
Input / output resistance R_e/R_a	Ω	350
Insulation resistance R_{is}	Ω	> 2*10 ⁹
Rated range of excitation voltage B_{U, nom}	V	2 ... 12
Electrical connection		Cable, PUR, 3 m, with free strands
Reference temperature T_{ref}	°C	23
Rated temperature range B_{T, nom}	°C	-10 ... 70
Operating temperature range B_{T, G}	°C	-30 ... 80
Storage temperature range B_{T, S}	°C	-50 ... 95
Temperature effect on zero signal TK₀	% F _{nom} /10 K	±0.1
Temperature effect on characteristic value TK_C	% F _{nom} /10 K	±0.1
Maximum operating force F_G	% F _{nom}	130
Force limit F_L	% F _{nom}	150
Breaking force F_B	% F _{nom}	> 300
Material		Stainless steel
Level of protection		IP67

Options

Article-No.	Description	
100218	Control signal	100 % F _{nom}
100739	Control signal	80 % M _{nom}
106154	Control signal	50 % M _{nom}
113134	TEDS-standard IEEE 1451.4	
100896	Rated sensitivity adjustment	
42828	Extended temperature range	-30 °C ... 100 °C
42829	Extended temperature range	-30 °C ... 120 °C
42830	Extended temperature range	-40 °C ... 150 °C
103954	Calibration in kg or t	
107592	6-wire connection	

Calibrations

Article-No.	Description	
400628	Linearity diagram in accordance to factory standard	25 % steps
400170	Linearity diagram in accordance to factory standard	10 % steps
400960	Proprietary calibration acc. to DIN EN ISO 376 and DAkKS-DKD-R 3-3	3 steps
400652	Proprietary calibration acc. to DIN EN ISO 376 and DAkKS-DKD-R 3-3	5 steps
400640	Proprietary calibration acc. to DIN EN ISO 376 and DAkKS-DKD-R 3-3	8 steps
	DAkKS-Calibration/Standard on request	

Accessories

Cable and input connector

Article-No.	Description
10323	Cable connector KS6 (6-pin, series 581) incl. sensor mounting
10320	Cable connector KSSH15 (15-pin) incl. sensor mounting
43418	Input connector ZA9612FS (ALMEMO) incl. sensor mounting and connector calibration
49205	Input connector ZKD712FS (ALMEMO 202) incl. sensor mounting and connector calibration

Amplifiers

Examples of suitable amplifiers for the force sensor K-2565:

LCV	GM 78	GM 40	GM 80	SI
				

Further suitable amplifiers you can find on our homepage under <https://www.lorenz-messtechnik.de/english/products/>