

KUS-B Force Transducer

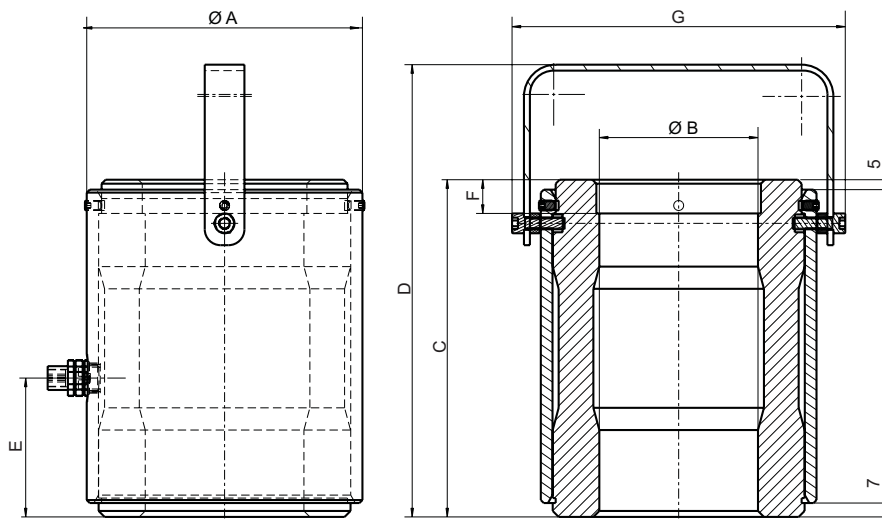
Applications

- For monitoring of forces in wire ropes or presses
- Measurement at cable ends or screws

Features

- For high loads of 1MN to 4 MN
- Made of stainless steel

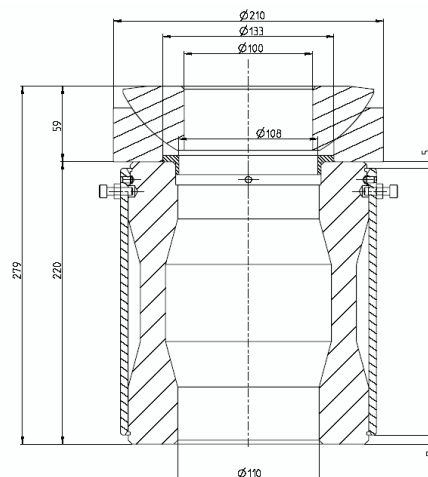
Dimensions



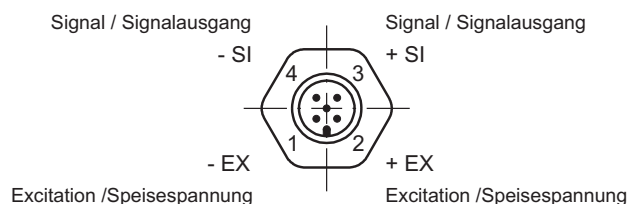
Rated Load in MN	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Weight
1/ 1.5/ 2	139	80	170	228	70	17	170	approx. 12kg
3/ 4	139	110	220	315	100	18	232	approx. 32kg

Appliances for Installation and Mounting

KUS-B / 3MN
axial-tilting bearing GX100S
and centring ring



Wiring Code



Specifications

Accuracy Class	% F_{nom}	1
Rated load (F_{nom})	MN	1/ 1.5/ 2/ 3/ 4
Maximum operating force (F_G)	% F_{nom}	150
Breaking force (F_B)	% F_{nom}	> 300
Rated characteristic value (C_{nom})	mV/V	2.000 ± 0.005
Relative deviation of zero signal	%	≤ 3
Reference excitation voltage (U_{ref})	VDC	20
Input resistance (R_e)	Ω	760 ± 60
Output resistance (R_a)	Ω	706 ± 6
Insulation resistance (R_{is})	Ω	$> 5 \times 10^9$
Reproducibility		
- at invariably fitting position	%	≤ 1
- at changed fitting position	%	≤ 3
Temperature effect on zero signal (TK_0)	%/10K	≤ 0.5
Temperature effect on characteristic value (TK_c)	%/10K	≤ 0.5
Relative creep over 30 minutes ($d_{cr, F+E}$)	%	≤ 1
Reference temperature (T_{ref})	$^{\circ}\text{C}$	+23
Operating temperature range ($B_{T, G}$)	$^{\circ}\text{C}$	-20 ... +60
Storage temperature range ($B_{T, S}$)	$^{\circ}\text{C}$	-40 ... +70
Environmental protection (EN 60529)		IP 65

All data according to VDI/VDE/DKD 2638

Order Example

Type Code	Description
KUS-B/3MN/1	Force transducer 3MN with 1% accuracy
	Accuracy class
	Rated load
	Model

Accessoires/ Options

	Type Code	Description
Cable	XKC 046.03	Connection cable 5m for XKC 044.01
	XKC 046.04	Connection cable 10m for XKC 044.01