

KUS-C Ring Force Transducer with Customizable Dimensions

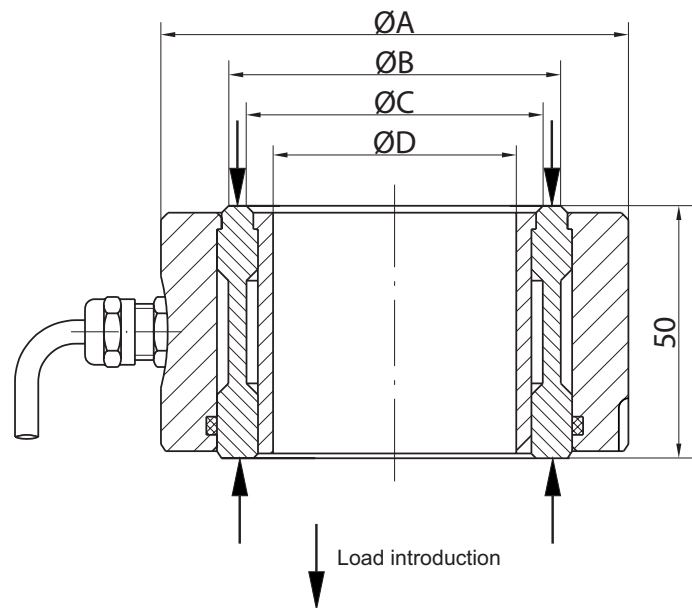
Applications

- Force monitoring and controlling on the rope ends of lifting
- Sensing shim
- Container cranes
- Lifts

Features

- Wide range of loads
- Monitoring forces
- Made of stainless steel
- Adjustment to the guide sleeve according to the customer possible

Dimensions (mm)

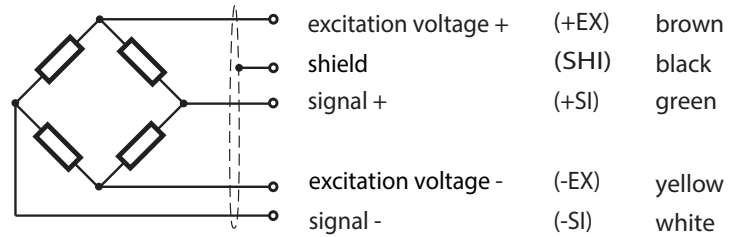


Dimension	Rated Force in kN	A (mm)	B (mm)	C (mm)	D (mm) *
0	10/ 20	44	29	19.5	12/ 16
1	20/ 40/ 60	55	39	29.5	16.5/ 20.5/ 26
2	40/ 60/ 100	64	49	39.5	20.5/ 24.5/ 30.5/ 36
3	60/ 100/ 160	75	60	50	30.5/ 40.5/ 45
4	60/ 100/ 160	86	69	61	45.5/ 50.5/ 56
5	60/ 100/ 160	95	79	71	50.5/ 56.5/ 66
6	100/ 160/ 200	104	89	81	60.5/ 65.5/ 76

* Other diameters (D) on request

Wiring Code

Cable length 3m



Specifications

Accuracy Class	% F_{nom}	1
Rated (nominal) force (F_{nom})	kN	20 ... 200
Maximum operating force (F_G)	% F_{nom}	150
Breaking force (F_B)	% F_{nom}	> 300
Lateral force limit (F_Q)	% F_{nom}	10
Rated characteristic value (C_{nom})	mV/V	app. 2
Zero signal tolerance	%	≤ 3
Reference excitation voltage (U_{ref})	VDC	5
Operating range of excitation voltage (B_{UG})	VDC	0.5 ... 12
Input resistance (R_e)	Ω	760 ± 60
Output resistance (R_a)	Ω	710 ± 10
Insulation resistance (R_{is})	Ω	$> 5 \times 10^9$
Relative linearity error (d_{lin})	%	≤ 1.0
Relative reversibility error (v)	%	≤ 1.0
Temperature effect on zero signal (TK_0)	%/10K	≤ 0.5
Temp. effect on characteristic value (TK_c)	%/10K	≤ 0.5
Relative creep over 30 minutes ($d_{cr, F+E}$)	%	≤ 1.0
Reference temperature (T_{ref})	$^{\circ}C$	+23
Rated temperature range ($B_{T, nom}$)	$^{\circ}C$	-20 ... +60
Operating temperature range ($B_{T, G}$)	$^{\circ}C$	-30 ... +70
Storage temperature range ($B_{T, S}$)	$^{\circ}C$	-40 ... +70
Environmental protection (EN 60529)		IP 65

All data according to VDI/VDE/DKD 2638

Order Example

Type Code	Description
KUS-C/Gr.2/40kN/D30.5	Force transducer 40kN and diameter 30.5mm
	Diameter in mm
	Rated (nominal) load
	Size
	Model

Recommended Electronics

Spherical washers (according to DIN 6319)
Conical seats (according to DIN 6319)
Flat washers (according to DIN 6340)

