AST Gruppe
Angewandte System Technik

KAU-PR
Force Transducer

Applications

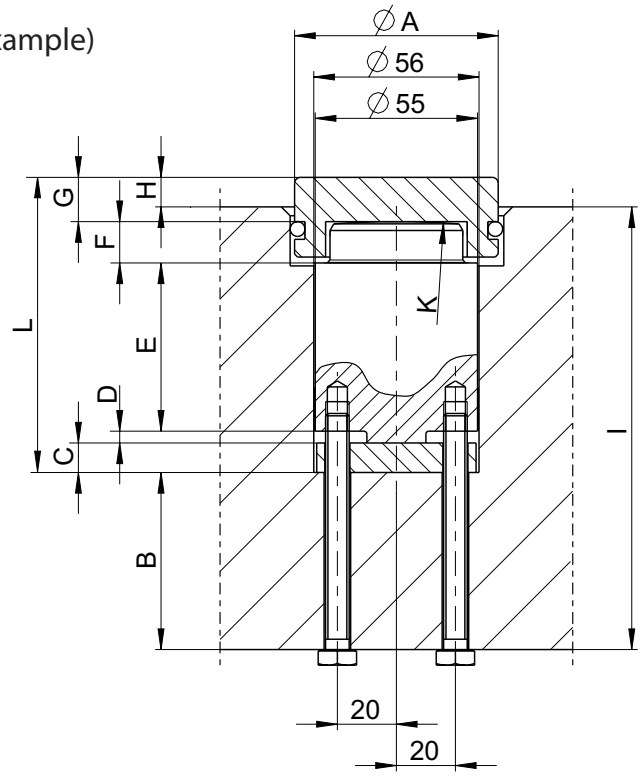
- For monitoring of loads in lifting jackets
- Suitable for reliable load recognition

Features

- For nominal loads of 150kN to 350kN
- Rugged, save, reliable
- High accuracy (1%)
- Non-sensitive to transverse force

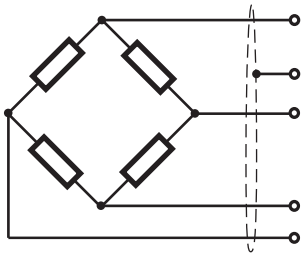
Dimensions (mm)

Installation in the bracket head (example)



Rated Load	A	B	C	D	E	F	G	H	I	K	L	Weight
150kN/ 250kN	69	44,5	8,5	2	34,5	13	12	8	106,5	R200	70	1,3kg
350kN	109	60	10	4	57	14	15	10	150	R300	100	3,5kg

Wiring Code
Cable length 6m



excitation voltage +	(+EX)	brown
shield	(SHI)	black
signal +	(+SI)	green
excitation voltage -	(-EX)	yellow
signal -	(-SI)	white

Specifications

Accuracy Class	**% F_{nom}**	**1**
Rated load (F_{nom})	kN	350
Breaking force (F_B)	% F_{nom}	> 300
Lateral force limit (F_Q) (mounted)	% F_{nom}	100
Relative linearity error (d_{lin})	%	≤ 1
Relative reversibility error (v)	%	≤ 1
Temperature effect on zero signal (TK_0)	% / 10K	≤ 0.5
Temperature effect on characteristic value (TK_C)	% / 10K	≤ 0.5
Temperature coefficient of output signal under load	% / 10K	≤ 0.5
Rated characteristic value (C_{nom})	mV/V	approx. 2
Relative deviation of zero signal	%	≤ 3
Maximum excitation voltage (U_{ref})	VDC	20
Input resistance (R_e)	Ω	380 ± 30
Output resistance (R_a)	Ω	352 ± 1.5
Insulation resistance (R_{is})	Ω	> 5 x 10^9
Reference temperature (T_{ref})	°C	+23
Rated temperature range ($B_{T, nom}$)	°C	-10 ... +40
Operating temperature range ($B_{T, G}$)	°C	-30 ... +70
Storage temperature range ($B_{T, S}$)	°C	-40 ... +70
Environmental protection (EN 60529)		IP 65

All data according to VDI/VDE/DKD 2638

Order Example

Type Code	**Description**
KAU-PR/350kN/1	Force transducer 350kN with 1% accuracy
	— Accuracy class
	— Rated force
	— Model

Accessoires (incl. in scope of delivery)

	Description
1 piece	Thrust pad with O-ring
1 piece	Base plate hardened and polished
2 piece	Screw DIN 931 M8x80