AST Gruppe
Angewandte System Technik

KAM-R
Force Transducer

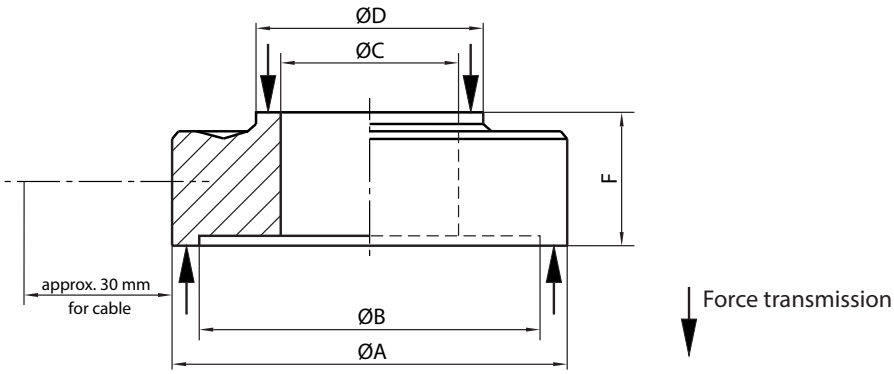
Applications

- Measuring shim
- Overload protection at rope end
- Screw control

Features

- 500N up to 50kN
- Small dimension
- Made of stainless steel (Aluminium*)
- Good reproducibility
- Customized dimensions possible

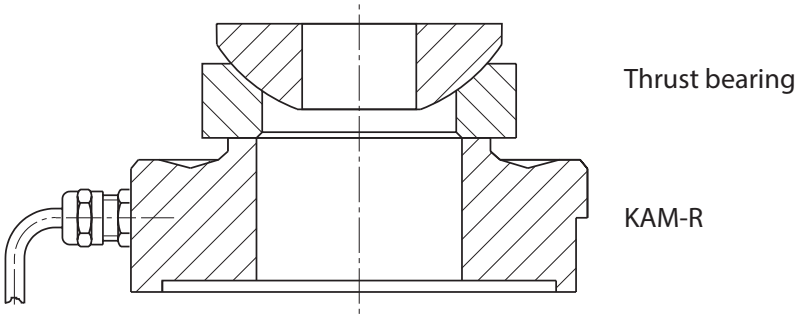
Dimensions (mm)



Type Number	Rated Load	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)
3573570	500N	58	44	12	22	15
3573569	1kN	58	44	12	22	15
3571443	2kN	70	64	30	40	20*
3577552	2kN	40	33	13	20	27
3573748	5kN	60	48.6	20	26	28
3572465	10kN	80	69	36	46	27
3573217	20kN	80	69	36	46	27
3572616	30kN	80	69	36	46	27
3573588	35kN	100	82.5	40.1	54	27
3577236	50kN	100	82.5	40.1	54	27

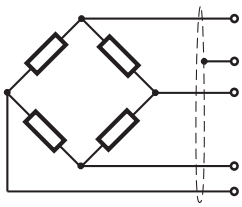
* Aluminium

Appliances for Installation and Mounting



Wiring Code

Cable length 3m



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

Specifications

Accuracy Class	**% F_{nom}**	**1**
Rated (nominal) force (F_{nom})	kN	0.5/ 1/ 2/ 5/ 10/ 20/ 30/ 35/ 50
Maximum operating force (F_G)	% F_{nom}	150
Breaking force (F_B)	% F_{nom}	> 300
Lateral force limit (F_Q)	% F_{nom}	20
Rated characteristic value (C_{nom})	mV/V	approx. 1.000
Relative deviation of zero signal	%	≤ 3
Reference excitation voltage (U_{ref})	VDC	10
Input resistance (R_e)	Ω	380 ± 30
Output resistance (R_a)	Ω	352 ± 2
Insulation resistance (R_{is})	Ω	> 5 x 10^9
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
Relative creep over 30 minutes ($d_{cr, F+E}$)	%	≤ 0.5
Reference temperature (T_{ref})	°C	+23
Rated temperature range ($B_{T, nom}$)	°C	-20 ... +60
Operating temperature range ($B_{T, G}$)	°C	-20 ... +60
Storage temperature range ($B_{T, S}$)	°C	-30 ... +70
Environmental protection (EN 60529)		IP 42

All data according to VDI/VDE/DKD 2638

Order Example

Type Code	**Description**
KAM-R/10kN/1	Force transducer 10kN with 1% accuracy – Accuracy class – Rated load – Model