

## KAN-S Force Transducer

### Applications

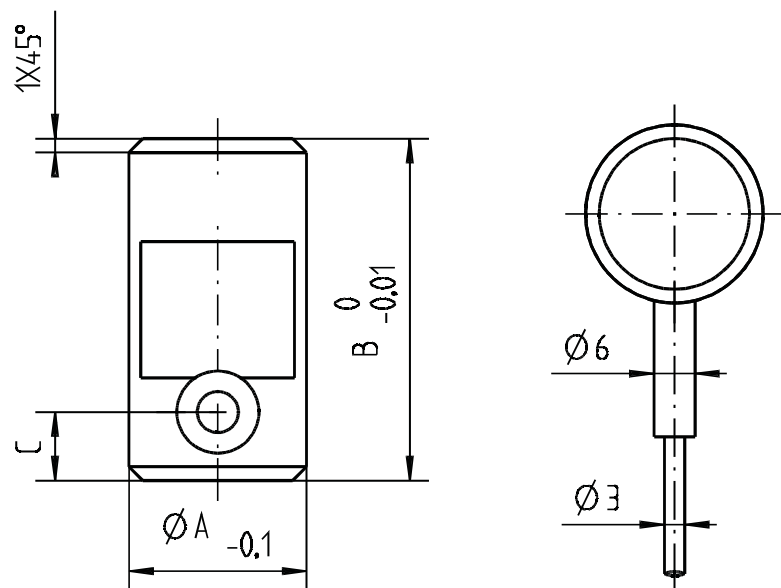
- Press fitting machines
- Fitting and mounting technology
- Orthopaedic measuring devices
- Medical
- Robotic technics

### Features

- 27kN to 112kN
- Small dimensions
- Made of stainless steel
- For "guided" measuring
- Customized design possible



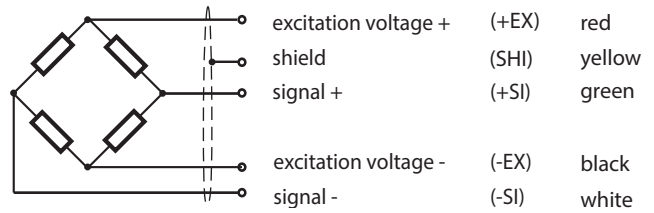
### Dimensions (mm)



Rated Load	A (mm)	B (mm)	C (mm)	Weight
27kN	13	25	5	approx. 30g
40kN	15	25	5	approx. 40g
55kN	17	30	5	approx. 60g
72kN	19	30	5	approx. 70g
91kN	21	35	7.5	approx. 100g
112kN	23	35	7.5	approx. 120g

## Wiring Code

Cable length 3m



## Specifications

Accuracy Class	% $F_{nom}$	0.5
Rated (nominal) force ( $F_{nom}$ )	kN	27/ 40/ 55/ 72/ 91/ 112
Maximum operating force ( $F_G$ )	% $F_{nom}$	120
Breaking force ( $F_B$ )	% $F_{nom}$	> 300
Lateral force limit ( $F_Q$ )	% $F_{nom}$	
Rated characteristic value ( $C_{nom}$ )	mV/V	$2.00 \pm 0.02$
Zero signal tolerance	%	$\leq 1$
Reference excitation voltage ( $U_{ref}$ )	VDC	10
Input resistance ( $R_e$ )	$\Omega$	$380 \pm 30$
Output resistance ( $R_a$ )	$\Omega$	$352 \pm 3$
Insulation resistance ( $R_{is}$ )	$\Omega$	$> 5 \times 10^9$
Relative linearity error ( $d_{lin}$ )	%	$\leq 0.5$
Relative reversibility error ( $v$ )	%	$\leq 0.5$
Temperature effect on zero signal ( $TK_0$ )	%/10K	$\leq 0.5$
Temp. effect on characteristic value ( $TK_c$ )	%/10K	$\leq 0.5$
Relative creep over 30 minutes ( $d_{cr, F+E}$ )	%	$\leq 0.5$
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 54

All data according to VDI/VDE/DKD 2638

## Order Example

Type Code	Description
KAN-S/55kN/0.5	Force transducer 55kN with 0.5% accuracy class
	Accuracy class
	Rated load
	Model