

KAF-G Force Transducer

Applications

- Material testing machines
- For measuring of compressive force
- Hardness testing

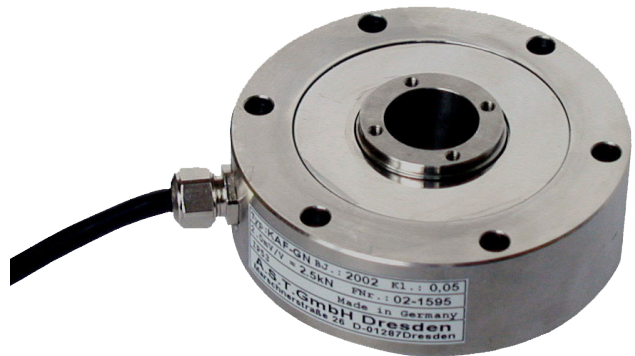
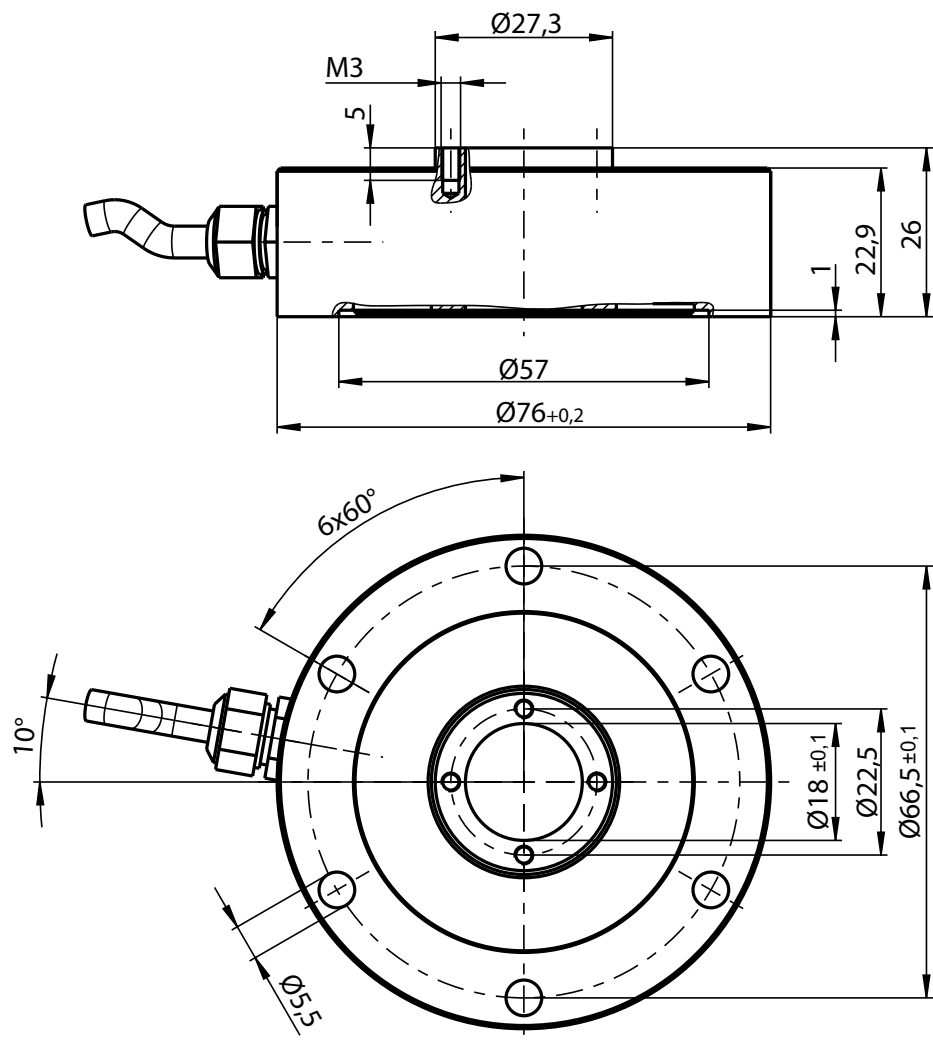
Features

- Rated load 2.5kN
- Made of stainless steel

Options

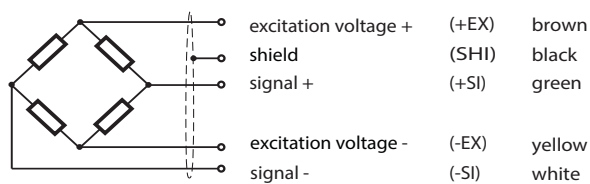
- with 15-pin. SUB-D-plug on 1.6m cable (KAF-GN)

Dimensions (mm)



Wiring Code

Cable length 3m with free cable end



Compressive load is positive change of signal

Specifications

Accuracy Class	% F_{nom}	0.1
Rated force (F_{nom})	kN	2.5
Maximum operating force (F_G)	% F_{nom}	150
Breaking force (F_B)	% F_{nom}	> 500
Lateral force limit (F_Q)	% F_{nom}	10
Rated characteristic value (C_{nom})	mV/V	2.000 ± 0.0005
Relative deviation of zero signal	%	≤ 3
Reference excitation voltage (U_{ref})	VDC	20
Input resistance (R_e)	Ω	770 ± 40
Output resistance (R_a)	Ω	700 ± 10
Insulation resistance (R_{is})	Ω	$> 5 \times 10^9$
Relative linearity error (d_{lin})	%	0.1
Relative reversibility error (v)	%	0.1
Temperature effect on zero signal (TK_0)	%/10K	0.1
Temperature effect on characteristic value (TK_c)	%/10K	0.1
Relative creep over 30 minutes ($d_{cr, F+E}$)	%	0.1
Reference temperature (T_{ref})	$^{\circ}C$	+23
Rated temperature range ($B_{T, nom}$)	$^{\circ}C$	-20 ... +60
Operating temperature range ($B_{T, G}$)	$^{\circ}C$	-20 ... +60
Storage temperature range ($B_{T, S}$)	$^{\circ}C$	-30 ... +70
Environmental protection (EN 60529)		IP 42
Weight	kg	approx. 0.2

All data according to VDI/VDE/DKD 2638

Order Example

Type Code	Description
KAF-G/2.5kN/0.1	Force transducer 2.5kN with 0.1% accuracy
	Accuracy class
	Rated load
	Model
KAF-GN/2.5kN/0.1	Force transducer 2.5kN with 0.1% accuracy
	Accuracy class
	Rated load
	with 15-pol. SUB-D-plug
	Model