

## KAF-S-E Force Transducer

### Application

- Measuring of tension and compression forces in machines and systems
- Material testing machines, testing stands
- Hydraulic cylinder

### Special Features

- 100N up to 10kN
- Small mounting dimension
- Made from stainless steel or aluminium (<500N)
- Environmental protection IP 42

### Options

- CANopen interface
- redundantes System

### Dimension (mm)

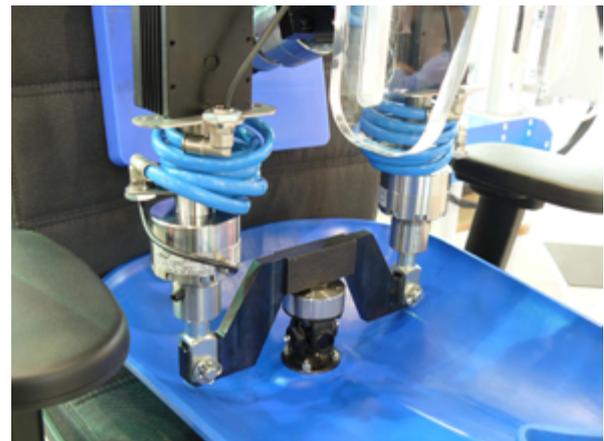
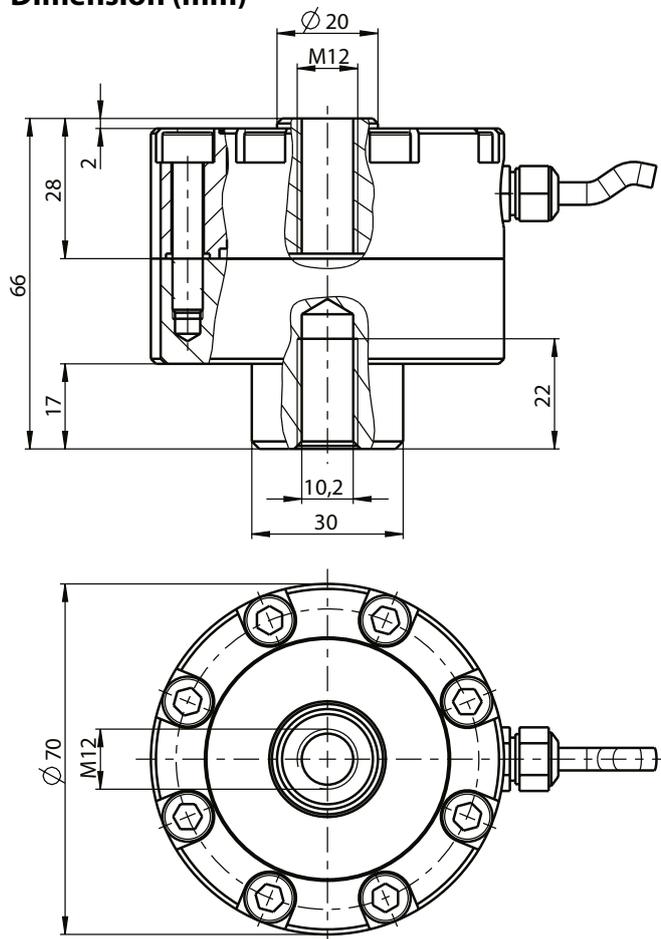
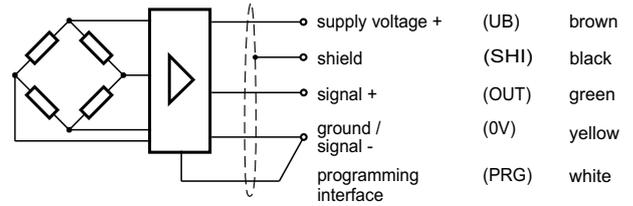


Foto: Furniture test

Rated Force	Weight
KAF-S 100N / 200N	0.6 kg
KAF-S 500N - 10kN	1.2 kg

## Wiring Code

Cable length 5.0m



(0V and PRG to be connected by the customer.)

## Specifications

Accuracy Class	% $F_{nom}$	0.2 with Integrated Amplifier
Rated force ( $F_{nom}$ )	kN	0.1/ 0.2/ 0.5/ 1/ 2/ 5/ 10
Maximum operating force ( $F_G$ )	% $F_{nom}$	150
Breaking force ( $F_B$ )	% $F_{nom}$	>500
Lateral force limit ( $F_Q$ )	% $F_{nom}$	10
Relative linearity error ( $d_{lin}$ )	%	0.1
Temperature effect on zero signal ( $TK_0$ )	%/10K	0.2
TK of output signal under load	%/10K	0.1
Relative creep over 30 minutes ( $d_{cr, F+E}$ )	%	0.2
Tolerance of output signal	%	0.1
Tolerance of zero signal	%	$\leq 3$
Reference temperature ( $T_{ref}$ )	°C	+23
Rated temperature range ( $B_{T, nom}$ )	°C	-20 ... +50
Operating temperature range ( $B_{T, G}$ )	°C	-20 ... +50
Storage temperature range ( $B_{T, S}$ )	°C	-30 ... +70
Environmental protection (EN 60529)		IP 42
Excitation voltage	VDC	20 ... <b>24</b> ... 30
Power consumption	mA	< 30
Output signal (compression force positiv)	VDC	-10 ... +10

All data according to VDI/VDE/DKD 2638

## Order Example

Type Code	Description
KAF-S-E/10kN/0.2/24V/-10...+10V	Force transducer 10kN with 0.2% accuracy class
	Output signal
	Supply voltage
	Accuracy class
	Rated force
	E = Integrated amplifier
	Model

## Accessoires / Options

	Type Code	Description
Load button	XKM 019	K12-50 for KAF-S 100N up to 10kN
Rod end bearings	GKA 12	male thread with jam nut for 100N up to 10kN
CANopen interface	KAF-S-DI	for 10N ... 10kN Please note data sheet „Force Transducer with CANopen Interface“!