

# KAN-M Force Transducer

## Application

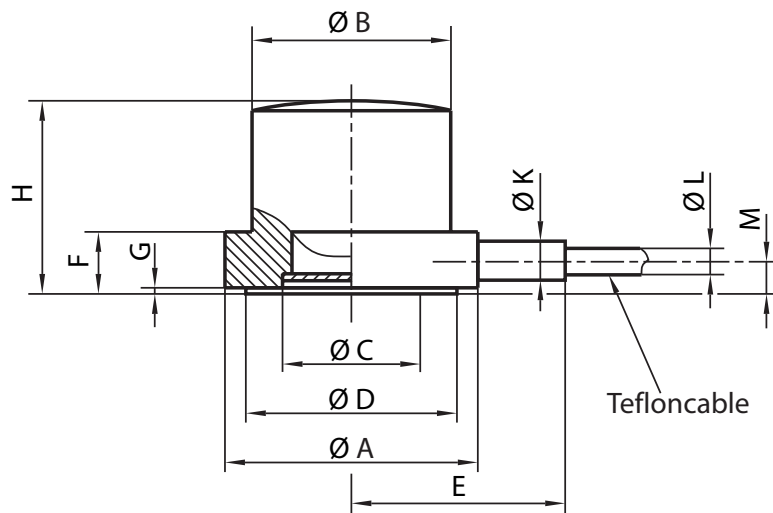
- For guided force measuring
- Compression force measurement

## Special features

- 1kN up to 10kN
- Small dimensions



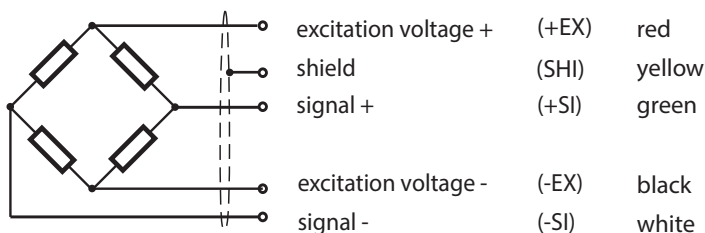
## Dimensions (mm)



Rated force (kN)	Ø A	Ø B	Ø C	Ø D	E	F	H	G	Ø K	Ø L	M	Weight
1/2	12.7	6.5	5.9	7.7	14.9	3.05	9.6	0.25	2.8	1.9	1.65	appr. 4g
5	12.7	7.7	6.4	7.8	14.9	3.05	9.6	0.25	2.8	1.9	1.65	appr. 4g
10	12.9	10	8.2	12.2	14.9	3.05	9.6	0.25	2.8	1.9	1.65	appr. 4g

## Wiring Code

Cable length 1.5m



## Specifications

Accuracy Class	% $F_{nom}$	1
Rated (nominal) force ( $F_{nom}$ )	kN	1/ 2/ 5/ 10
Maximum operating force ( $F_G$ )	% $F_{nom}$	150
Breaking force ( $F_B$ )	% $F_{nom}$	> 300
Rated characteristic value ( $C_{nom}$ )	mV/V	1 ... 2.25
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 ± 1.5
Insulation resistance ( $R_{is}$ )	Ω	> 5 × 10 <sup>6</sup>
Relative linearity error ( $d_{lin}$ )	%	≤ 1
Relative reversibility error ( $v$ )	%	≤ 1
Temperature effect on zero signal ( $TK_0$ )	%/ 10K	≤ 0.5
Temp. 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	-30 ... +70
Storage temperature range ( $B_{T, S}$ )	°C	-40 ... +70
Environmental protection (EN 60529)		IP 62

All data according VDI/VDE/DKD 2638

## Accessoires / Options

	Type code	Description
Adjustment	XKC 104	Adjustment of the zero signal and rated characteristic value on customer request in the sensor cable

## Order Example

Type Code	Description
KAN-M / 2kN / 1	Force transducer 2kN with 1% accuracy class
	Accuracy class
	Rated load
	Model