

For more efficiency.



Assembly and Sensor Technology

KAN-M Force Transducer

Application

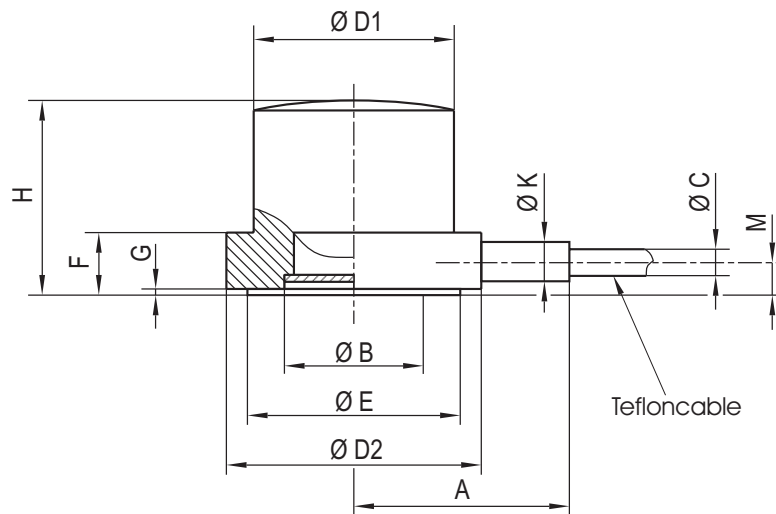
- For guided force measuring
- Compression force measurement

Special features

- 1kN up to 10kN
- Small dimensions



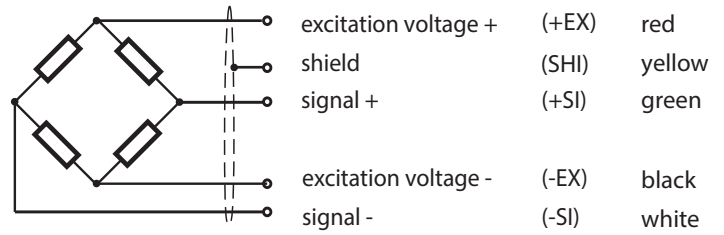
Dimensions (mm)



Rated force (kN)	Ø A	Ø B	Ø C	Ø D	E	F	H	G	Ø K	Ø L	M	Weight
1	12.7	6.4	6.5	7.7	14.9	3.05	9.6	0.25	2.8	1.9	1.65	appr. 4g
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}	> 300
Breaking force (F_B)	% F_{nom}	100
Rated characteristic value (C_{nom})	mV/V	1.5
Relative deviation of zero signal	%	≤ 1
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 x 10 ⁶
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

Order Example

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