AST Gruppe
Angewandte System Technik

Force Transducer KMR

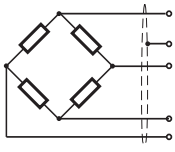
Special Features

- 1kN to 50kN
- Made of stainless steel
- Accuracy class 0,5

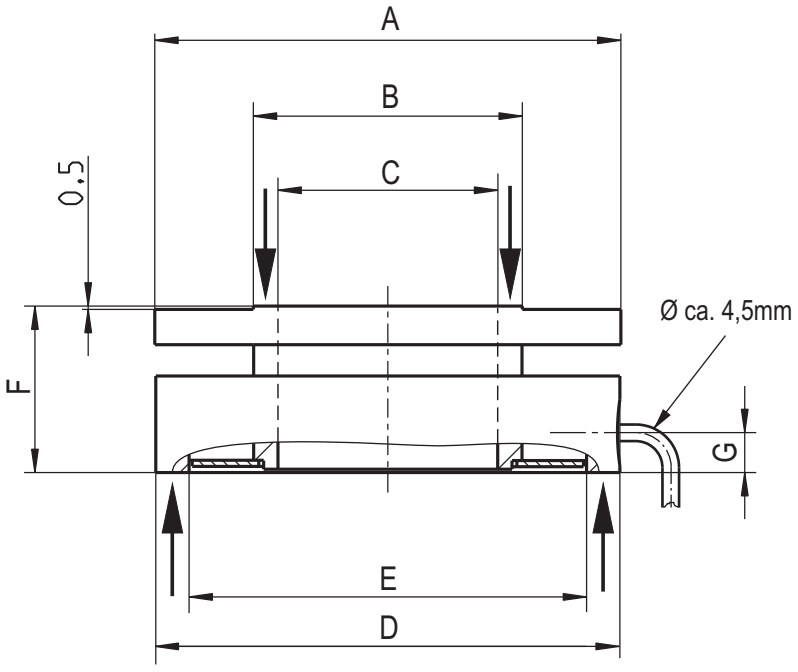
Dimensions

Wiring code

Cable length 3,0 m



excitation voltage +	(+EX)	brown
shield	(SHI)	black
signal +	(+SI)	green
excitation voltage -	(-EX)	yellow
signal -	(-SI)	white



load introduction

Rated load	ØA	ØB	ØC	ØD	ØE	F	G	Weight
1kN / 3kN / 6kN	65 -0,03 -0,08	37,6-0,1	30+0,2	64±0,2	56,4	23±0,1	4,5	approx. 0,3kg
10kN / 20kN	70 ±0,05	40,4-0,1	33±0,1	69,7±0,2	59,7	25±0,1	6	approx. 0,4kg
30kN / 50kN	112 -0,03 -0,09	80-0,1	70±0,1	111,5 ±0,2	100,5	35±0,1	6	approx. 1,2kg

FORCE MEASUREMENT

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Specifications

Accuracy class	% S	0,5
Rated load (=F_N)	kN	1/3/6/10/20/30/50
Safe overload	%F_N	150
Ultimate overload	%F_N	>300
Reference temperature	°C	+23
Compensated temperature range	°C	+5 . . . +70
Operating temperature range	°C	-20 . . . +80
Environmental protection (EN 60529)		IP 65
Sensitivity (=S)	mV/V	1,000±0,05
Zero balance	%S	≤3
Max. excitation voltage	V	≤10
Input resistance	Ω	700±30
Output resistance	Ω	700±1,5
Insulation resistance	Ω	>5 10^9
Nonlinearity [1)]	%S	≤0,5
Hysteresis [1)]	%S	≤0,5
Temperature effect on zero/10K	%S	≤0,1
Temperature effect on output/10K	%S	≤0,05
Creep in 30 minutes	%S	≤1

1) according to VDI / VDE 2638

Type code / Order example

Type code
KMR / 10kN / 0,5

FORCE MEASUREMENT

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