Force Transducer
BKA-40-1,6t-1.20

VELOMAT
MESSELEKTRONIK GmbH

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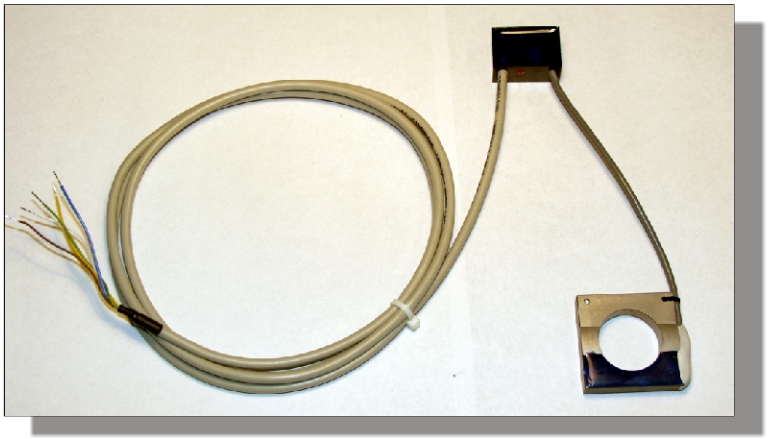

description

The force transducer BKA-40 is intended for the axial load introduction

The use spectrum is for static and dynamic strengths at elevators, shafts, axes, screwing connections, springs and for weighing tasks.

The special qualities are justified in the uncomplicated form, the low building height and the relativity high insensitivity opposite eccentric strength introduction.

The application room is protected by a synthetic material covering depth against chemical and mechanical stress with a high elastic mass.

The strain gauges full bridge measured the bending of the measuring cell.

A downstream amplifier in the external case generated the output signal from 1 to 9 mA.

The shield of the cable is not connected basically with the surface of the force transducer.

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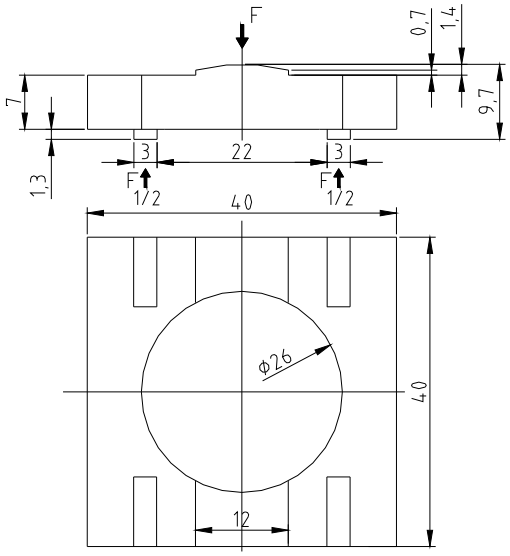
specification



mechanical execution

diameter, force transmission and mounting see assembly drawing

weight	approx. 0,35 kg
material	stainless steel
degree of protection	IP 67
BKA	**40-1,6t**
nominal force / nominal load	1600 kg
max. overload range / force limit	150 % of nominal force
breaking force	400 % of nominal force

electrical execution

measuring signal (output)	1 - 9 mA
operating voltage	12 - 24 V DC ±20 %
current consumption	max. 45 mA
calibration tolerance	< 3 % of final value*
non-linearity	< 1 % of final value*
hysteresis	< 1 % of final value*
temperature coefficient:	
of zero signal	≤ 0,04 % of final value / K
of the sensitivity	≤ 0,04 % of set point / K
insulation resistance	> 5.000 MΩ
nominal temperature range	-15 °C to +70 °C
operating temperature range	-25 °C to +80 °C**

cable and connection

cable length / cable type:		
sensor - amplifier	0,2 m LiYY UL/CSA 4 x 0,14 mm² (AWG26/7)	
amplifier - cable end	1,5 m LiYY UL/CSA 4 x 0,14 mm² (AWG26/7)	
cable end	tinned	
wiring connections	brown	operating voltage U_B
	green	ground / earth GND
	yellow	measuring signal output Im
	white	not bonding
	blue	shielding (only in the case of a shielded cable)

* These details are depending on the fit, the resistance moment and the installation length. They are reached with favorable values.
** only for the case that the cable is laid with fastening (depending on cable type)
*** This cable should be connected at the operating voltage unless the calibration signal is used. (only applicable to executions with amplifier)