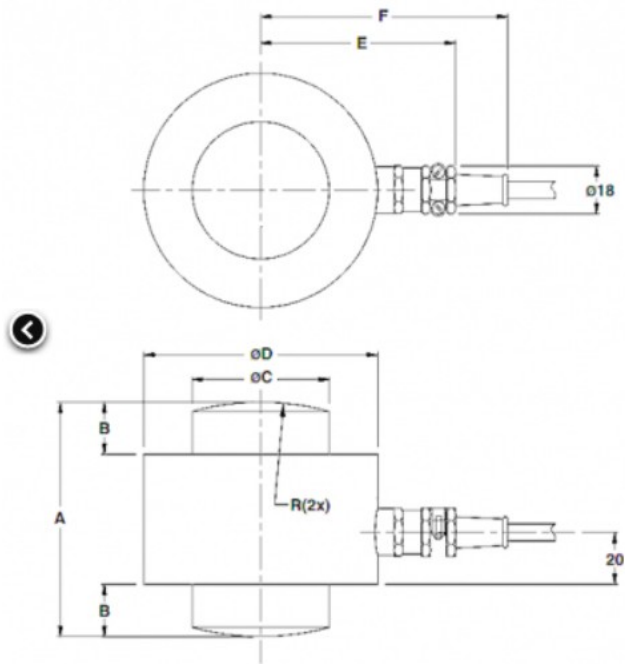


Force Sensor KA90 60t

Item number: 3233



Technical Drawing



E_{max}	6	13	28	60	130	280
A	56	68	74	90	116	170
B	8	12	14	20	26	45
C	16.7	24.5	36.0	52.7	77.5	114
D	45	55	64	90	121	165
E	52.5	57.5	62.0	75.0	90.5	112.5
F	71.5	76.5	81	94	109.5	131.5
R	50	66	72	100	125	183

Cable specifications

Cable length: 10 m (6T version: 5m)
 Excitation + Red
 Excitation - White
 Output + Black
 Output - Blue
 Shield Transparent / Yellow
 Cable screen is not connected to the load cell body.

Technical Data

Basic Data		Unit
Type	Wägezelle	
Force direction	Compression	
Rated force Fx	60	t
Force introduction	Load button	
Dimension 1	Ø16,7x8	
Sensor Fastening	Load button	
Dimension 2	Ø16,7x8	
Operating force	150	%FS
Rated displacement	1.24	mm
Lateral force limit	10	%FS
Material	tool steel	
Surface	Natur	
Dimensions	Ø 45 mm x 56 mm ... Ø 165 mm x 170 mm	
Height	90	mm
Length or Diameter	90	mm
Variants	6t ... 280t	

Electrical Data		Unit
Input resistance	275	Ohm
Output resistance	245	Ohm
Tolerance output resistance	0.2	Ohm
Insulation resistance	5	GOhm
Rated range of excitation voltage from	2.5	V
Rated range of excitation voltage to	5	V
Operating range of excitation voltage from	1	V
Operating range of excitation voltage to	10	V
Zero signal	0.05	mV/V
Rated output	1.5	mV/V / FS
relative error of characteristic value	0.008	mV/V / FS

Accuracy Data		Unit
Accuracy class	0,2	
Relative linearity error	0.1	%FS
Relative zero signal hysteresis	0.05	%FS
Temperature effect on zero signal	0.05	%FS/K
Temperature effect on characteristic value	0.05	%RD/K
Relative creep	0.08	%FS

Environmental Data		Unit
Rated temperature range from	-10	°C
Rated temperature range to	60	°C
Operating temperature range from	-10	°C
Operating temperature range to	70	°C
Storage temperature range from	-30	°C
Storage temperature range to	80	°C
Environmental protection	IP66	

Abbreviation : RD: „Reading“; FS: „Full Scale“;1) The exact nominal sensitivity is indicated in the test report.

Pin Assignment

Channel	Symbol	Description	Wire color	PIN
	+Us	positive bridge supply	red	
	-Us	negative bridge supply	white	
	+Ud	positive bridge output	black	
	-Ud	negative bridge output	blue	

Shield- transparent / yellow. Pressure load: positive output signal