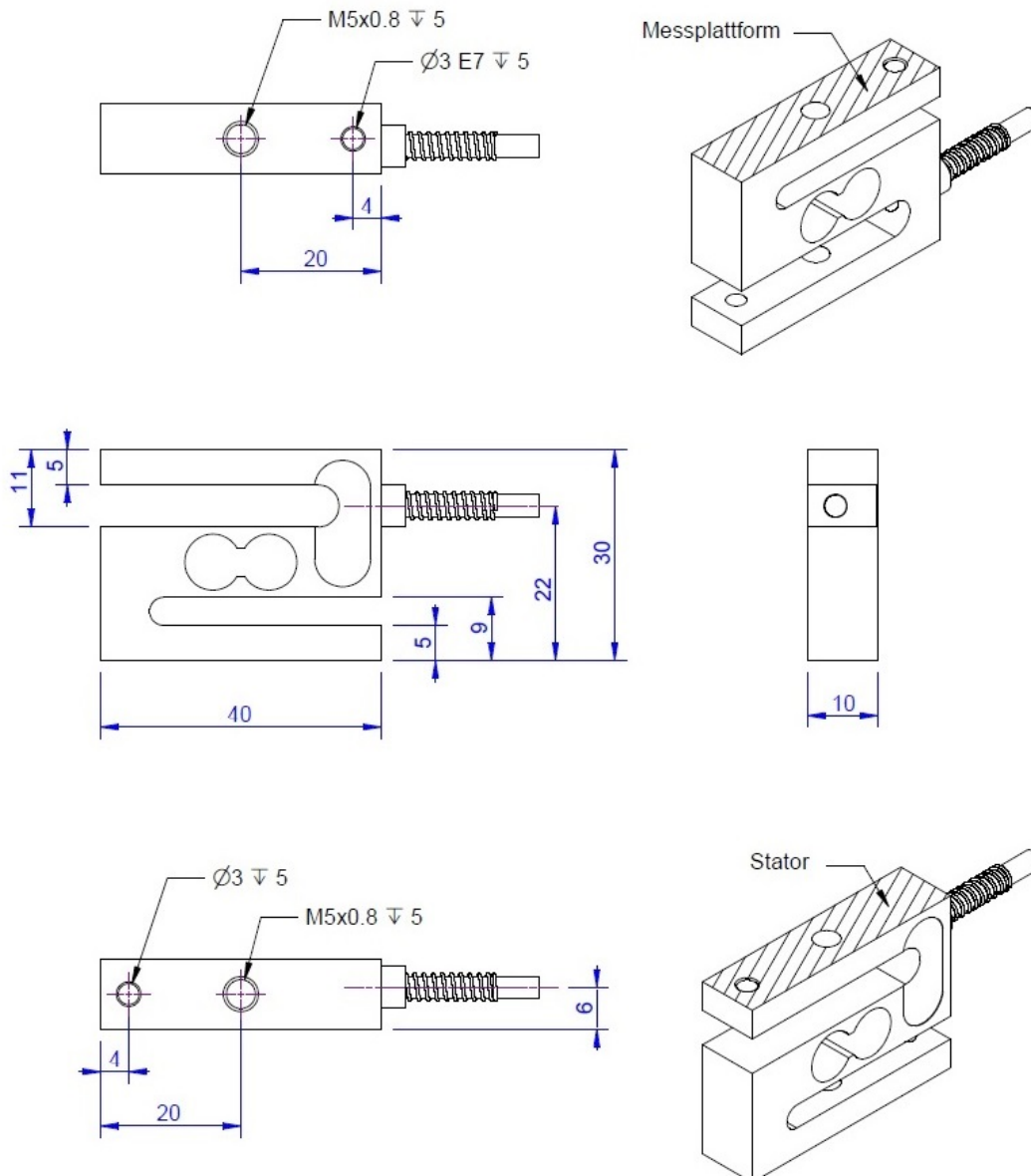


K1-D40

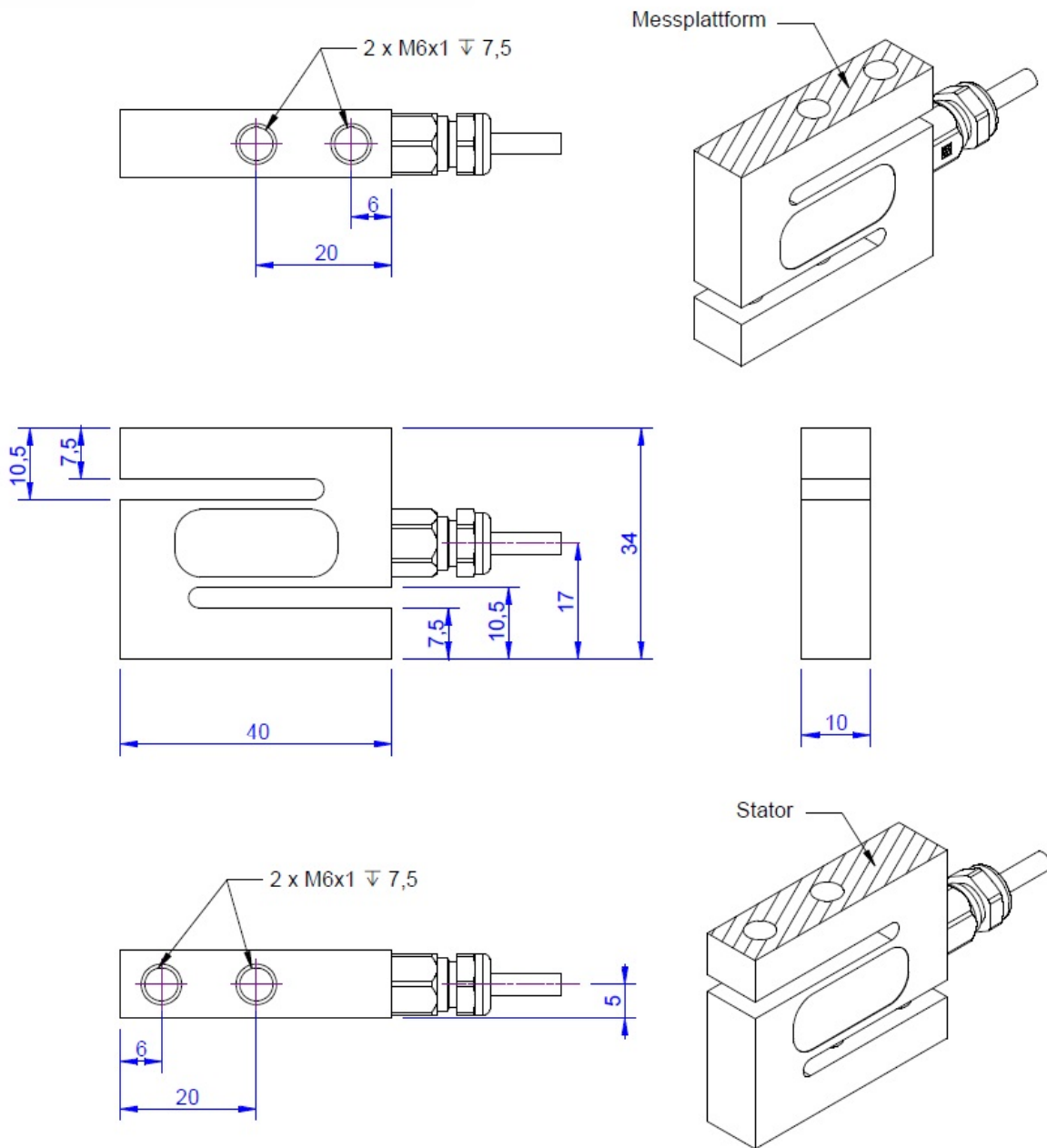
tension and compression force sensor



Dimensions: (measuring range 2N, 5N, 10N, 20N, 50N, 100N)



Dimensions: (measuring range 200N, 500N, 1kN, 2kN, 5kN)



Pin Configuration

+Us	positive bridge supply	brown
-Us	negative bridge supply	white
+U _D	positive bridge output	green
-U _D	negative bridge output	yellow
screen		transparent

Pressure load : positive output signal

Technical data:

Measurement / Material		
Design		double bending beam, tension/compression
Material		aluminium alloy / stainless steel
Dimensions	mm x mm x mm	40 x 30 x 10 (40 x 34 x 10 ab 500N)
Force transmission / Thread		2x M5x0,8
Mechanical Data		
Nominal Force (FS)	N kN	±2, ±5, ±10, ... ±500; ±1; ±2, ±5
Operation force	%FS	400 (200) ¹⁾
Break load	%FS	800 (400) ¹⁾
Deflection by FS	mm	<0,2
Electrical Data		
Nominal output 2) up to 100N	mVV @ FS	0,5
Nominal output 2) from 200N	mVV @ FS	1,0
Zero balance	%	±10
max. supply voltage	V	10
Input resistance up to 100N	Ohm	390±40
Input resistance from 200N		1200±200
Output resistance up to 100N	Ohm	350±5
Output resistance up to 200N		1000±10
Insulation resistance	MOhm	>5 10 ⁹
Connection 4 conductor open	m	3
Accuracy		
Nominal output	%	0,1
rel. linearity deviation	%FS	0,02
rel. reversal error	%FS	0,02
Temperature coefficient of the zero signal	%FS/K	0,02
Temperature coefficient of the parameter	%RD/K	0,01
Creep Error (30 min)	%FS	0,1
Temperature		
Nominal temperature range	°C	-10... +70
Working temperature range	°C	-10 ... +85
Storage temperature range	°C	-10 ... +85
Environmental protection		IP65

Abbreviation : RD: „Reading“; FS: „Full Scale“;

1) Values in brackets are from 200N

2) The exact nominal value is indicated in the test report.