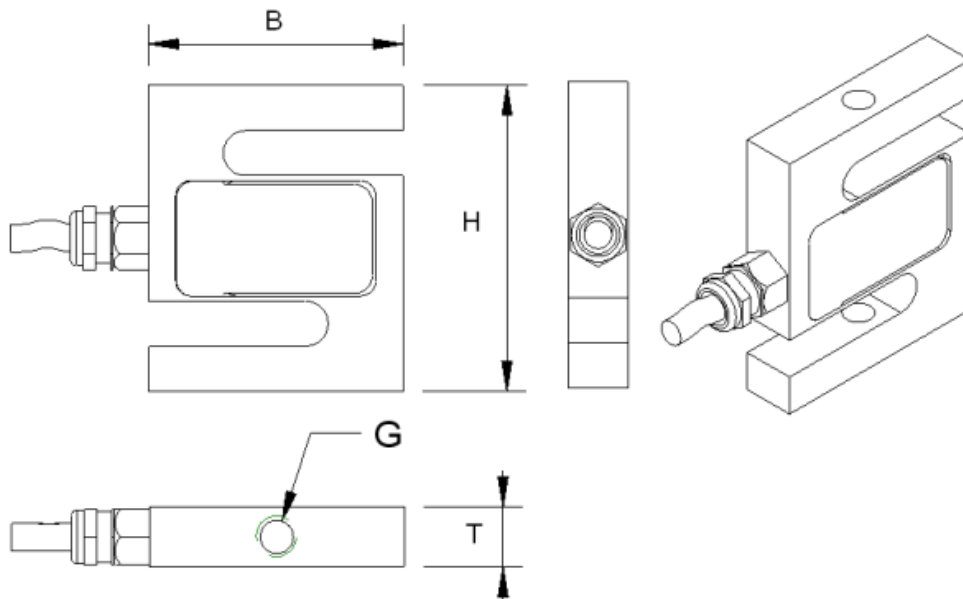


K1-D80

tension and compression force sensor



Dimensions:



Nominal load	B	H	T	G
0,5 kN	50	60	12,5	M8 x 1,25
1 kN	50	60	12,5	M8 x 1,25
2 kN	50	60	20	M8 x 1,25
5 kN	50	60	20	M12 x 1,75
10 kN	50	60	20	M12 x 1,75
20 kN	80	100	30	M20 x 1,5
50 kN	80	100	30	M20 x 1,5
100 kN	120	150	45	M30 x 2
200 kN	150	200	60	M42 x 3

Technical data:

Measurement / Material		
Design		tension – compression force sensor
Material		Stainless steel
Mechanical Data		
Nominal Force (FS)		500N ... 200kN
Operation force	%FS	150
Break load	%FS	300
Deflection by FS	mm	0,2
Electrical Data		
Nominal output * 1) *2)	mV/V @ FS	2,00
Zero balance	mV/V	±0,05
max. supply voltage	V	10
Input resistance	Ohm	400±50
Output resistance	Ohm	350±10
Insulation resistance	MOhm	>5 10 ⁹
Connection 4 conductor open	m	5
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) The exact nominal value is indicated in the test report.

Pin configuration:

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

Pressure load : positive output signal