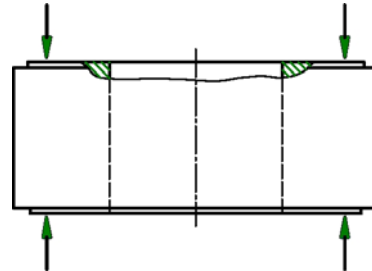


**Compression force transducer for measuring fastener screw clamping forces Type K-180**

- Measuring force washer
- Stainless steel
- Good repeatability
- Ranges 15 ..500 kN



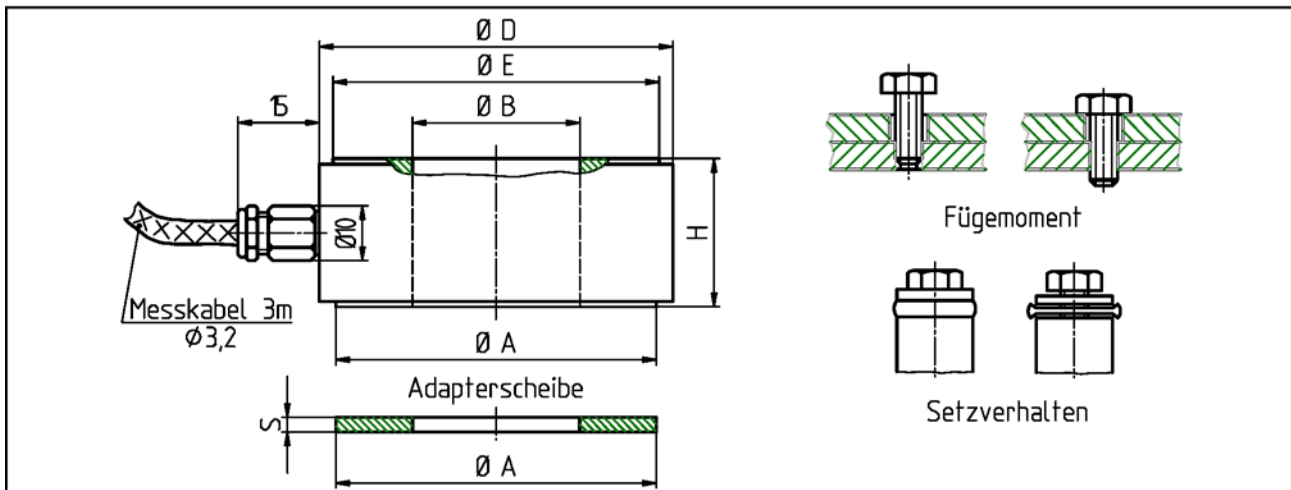
Connections	Cable
Supply(-)	green
Supply(+)	brown
Sign(+)	yellow
Sign(-)	white
Calibration control (option)	grey
Shield	shield



*E-LCV can also be supplied with USB interface*

**Dimensions**

**K-180**



for screw size	measuring force [kN]	Ø A	Ø B	Ø D	Ø E	H	S
M6	15	10,5	6,3	18	11	12	2
M8	30	15	8,3	22	16	12	2
M10	60	17	10,3	24	17,8	12	2
M12	80	22,5	12,3	28	22,5	15	2,5
M16	120	27,6	16,3	32	28	15	2,5
M20	160	37,5	20,3	46	38	15	3
M24	350	47	24,5	54	48	22	3
M30	500	59	30,8	65	60	27	3

**Specifications**

Type	K-180	
Accuracy class	S%	1
Accuracy class for measuring fastener clamping forces	S%	3
Service load	S%	130
Limit load	S%	150
Ultimate load	S%	300
Max. dyn. load (DIN 50 100 )	S%	70
Position feedback	mm	<0,1
Bridge resistance	Ω	350
Insulation resistance	Ω	>2x10 <sup>9</sup>
Supply voltage	V	2 ... 8
Max. supply voltage	V	8
Sensitivity (S)	mV/V	0,8 ... 1,2
Temp. coeff. of sensitivity	S%/10K	±0,3
Temp. coeff. of zero	S%/10K	±0,3
Reference temperature	°C	23
Nominal temp. range	°C	+5 ...+55
Service temp. range	°C	-20 ...+70
Storage temperature range	°C	-30+80
Linearity error, hysteresis error and nonrepeatability error: For measuring fastener clamping	S%	±3
For compression force measuring	S%	±1
Level of protection (DIN VDE 0470)	IP 65	
Material	Stainless steel	
Cable	3 m Free wires	

**Optionen – options**

Sensor interface Type LCV 0-10V or 4-20mA or USB

LCVU or LCVI or LCV-USB

Please specify requested screw size at order !