Technical Data Sheet

F3B3L11A



Load Cell, 3-axial Location: Steering Column

Force direction F_x , F_y , F_z

Application Measurement of forces in the steering column

Equivalent types Customized versions

Measurement specification Resistive Strain gauges

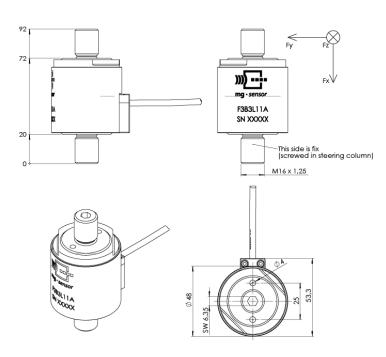
Options Polarity according to customer specifications



Technical description

The applied force causes compression or strain of the base body. The deformation is measured using strain gauges. The wiring of multiple strain gauges for a full bridge circuit compensates for the temperature influence on the zero signal and the cross-influence from other force and torque application.

Dimensions



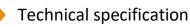
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	Unit	Value		
	Unit	F _x	Fy	Fz
Measuring range	kN	25	10	10
Sensitivity ¹⁾	μV/V/kN	44	140	140
Output signal ^{1), 2)}	mV/V	1.1	1.4	1.4
Bridge resistance	Ω	700	350	350
Zero signal ¹⁾	mV/V	≤ 0.05		
Amplitude non-linearity ³⁾	%	≤ 1.0		
Hysteresis ³⁾	%	≤ 1.0		
Channel crosstalk ³⁾	%	≤ 5.0		
Supply voltage	V	2–15		
Ultimate load	%	150		
Insulation resistance	MΩ	> 100		
Temperature range	°C	-30+70		
Weight (approximate)	g	650 (incl. Adaptors)		

All values measured at 10 V sensor supply voltage and at 23 °C.

¹⁾ Typical value

²⁾ At nominal load

³⁾ Relative nominal range