

SA-Shift_LoadCell_xxxxMy-000

Shift Sensor ± 1000N / ± 1500N



Key Features

- Gearshift sensor for application on the gear shaft. When stressed, the output voltage is proportional to the compression or extension force on the internal load cell.
- Internal calibration and temperature compensation

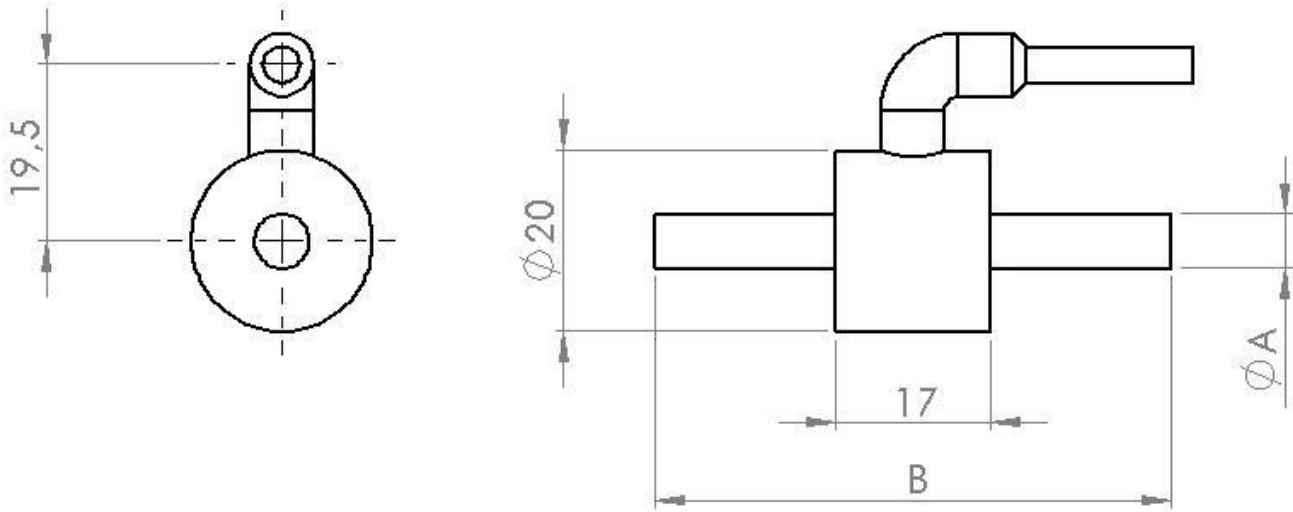
Options:

- Connector and cable length can be modified on customer request

Technical specifications

Load Cell			Mechanical characteristics		
Range	N	±1000 / ±1500	Housing material	Aluminum	
Overload	N	±1500 / ±1750	Thread Material	SS 304	
Frequency response	Hz	250	Weight	g	35
Error of linearity	FS	<1%	Thread ±1000N (Dim. A)	RH/LH	M6x1
Hysteresis	FS	<1%	Thread ±1500N (Dim. A)	RH/LH	M8x1,25
Offset temperature effects	FS	<0.2%	Length ±1000N (Dim. B)	mm	55
Span temperature effects:	FS	<0.4%	Length ±1500N (Dim. B)	mm	75
Electrical characteristics			Connector	Binder 719 5PM	
Supply voltage	V	5 to 24	Cable		
Output voltage	V	0 to 5	Length	mm	500
Environmental data			Wire cross section	3xAWG26	
Protection class	IP	66	Ordering information		
Ambient operating range	°C	-10 to +125	SA-Shift_LoadCell_1000M6-000	± 1000N	open wires
Humidity	%	5 to 95	SA-Shift_LoadCell_1000M6-001	± 1000N	B-719 5PF
			SA-Shift_LoadCell_1500M8-000	± 1500N	open wires
			SA-Shift_LoadCell_1500M8-001	± 1500N	B-719 5PF

Dimensions



Connector layout

Connector type

Analog line, Binder 719, 5PM

Pin	Name	Description	Color
1	AGND	Analog ground	black
2	+5V	Power supply	red
3	n.c.	Not connected	-
4	n.c.	Not connected	-
5	Signal	Analog signal	white

