texense sensors by TEXYS

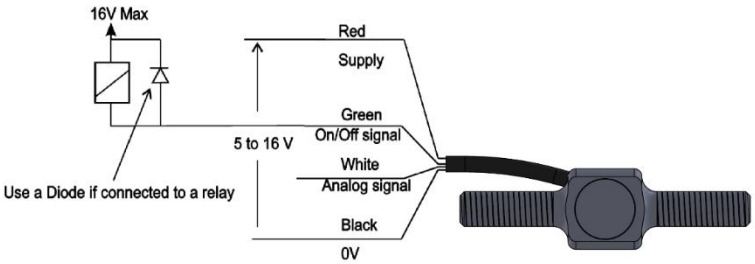
GSTN

Gear Shift Device: Tension / Compression sensor with analog and digital outputs. Resettable offset and adjustable thresholds

Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

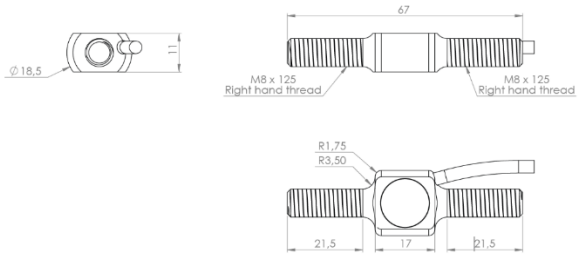
Effort measurement			
Range		±500, ±1000, ±1500 or ±2000	N
Accuracy		±5	%
Overload (1)		±2500	N
Mechanical overload(2)		±8000	N
Analog output			
Signal		0 to 4.7	V
Offset (no force)		2.500±0.025	V
Offset drift with		<10	mV
Sensitivity	±500N	4.7 ±1.4	mV/N
	±1000N	2.3 ±0.7	
	±1500N	1.33 ±0.5	
	±2000N	0.86 ±0.2	
Cut off frequency		30	Hz
Debounce time		30	ms
Digital output			
Output schematics		NPN Open collector, normally open.	
Protection		Must be protected by diode if an inductive load, such a relay, is connected (see §Wiring)	
Max voltage		16	V
Max current		20	mA
Force Direction threshold		Tension	
Polarity		Switched to 0V when detection	
Electrical features			
Supply Voltage		5,5 to 16	V
Supply Current		8	mA

(1) The maximum load the sensor can withstand without invalidating measurements specification.
(2) The maximum load the sensor can withstand without breaking.

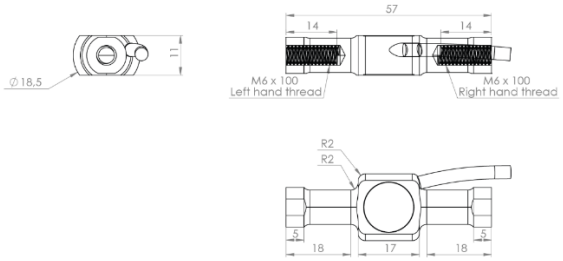


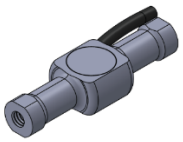
Mechanical drawing

M8 male thread (GSTN8 code):



M6 female thread (GSTN6F code):





Ordering information

Ordering ref:

GSTN *Thread – Range*

6F: Female M6	*500:* ±500N
8: Male M8	*1000:* ±1000N
	1500: ±1500N
	2000: ±2000N