Sensor Readings			
Offset (Volts)	Signal @ 300 N (T)		

# GSTN

**GEAR SHIFT DEVICE** 

Tension/Compression sensor with analog and ON/OFF outputs. Resettable offset and adjustable thresholds. Ref: SN : Software version:

Texys sensors are designed for data recording. If the user wants to include this sensor in a close loop system or active control, he must assume all responsibility.

responsibility.				
Rar	nge	±1000	N	
Over	load	±1500	N	
Accu	racy	5%	%	
Supply	Voltage	5 to 16	V	
Supply (	Current	8	mA	
Analog Signal White wire		0 to 5* V		
Offset (n	o force)	2.5 ±25mV	V	
Sensi	tivity	2.3 ±0.5	mV/N	
Cut off fr	equency	30	Hz	
On/Off output Green wire		NPN Open collector, normally open, max 16V, 20mA Switched to 0V when detection Must be protected by diode if an inductive load, such a relay, is connected.		
Deboun	ce time	30	msec	
Offset Drift wit	h temperature	<10	mV	
	M6 ends	57 x 12	mm	
Dim	M7 ends	57 x 12	mm	
	M8 ends	67 x 12	mm	
Mate	erial	Stainless Steel		
Weight		25 (+cable)	g	
Protection		IP63		
Vibration test		20 Gpp5'		
Sho	ock	500	G	
Operatir	ig Temp	0 to +85	°C	
Storage	e Temp	-20 to +125	°C	

\*limited by supply voltage

Ordering ref	ex: GSTN6
GSTN 6 7 8	(M6) (M7) (M8)

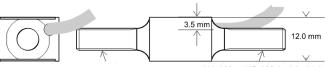
Sensor Settings		
Force (T / C)		
Threshold (bips or N)		
Cut Off Time (bips)		

Calibration table			
Force (Newtons)	Signal (analog output)		
-300 (C)	1 <sup>v</sup> 8		
0	2 <sup>v</sup> 5		
+300 (T)	3 <sup>v</sup> 2		

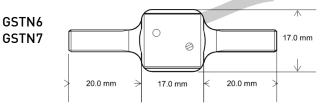
Cable : 4x26AWG FEP Tinned copper braided cable 250V 200°C Length :\_\_\_\_\_ mm Tubing: \_\_\_\_\_ Connector :

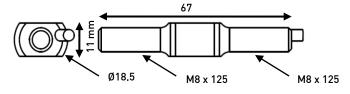
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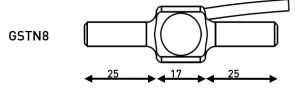
Colour	Function	Pin
Red	Supply	
Black	0V	
White	Analog Signal 0-5V	
Green	On/Off Signal NPN open collector Must be isolated if not used	
Braid	Connected to case	



M6X100 OR M7X100 Clockwise M6x100 or M7x100 Anticlockwise

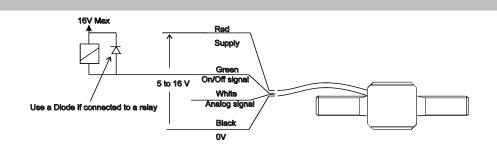






□ With optional protection sleeve

#### Wiring

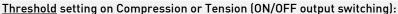


#### Setting modes

Connect a LED with 1K resistor between supply (red) and On/Off output (green)

## Offset setting:

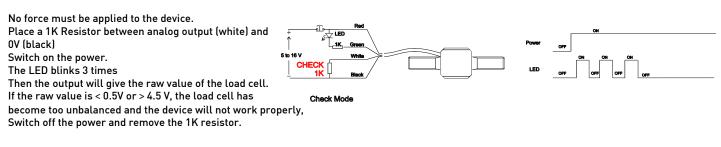
No force must be applied to the device. LED Place a 4K7 Resistor between analog output (white) and OV (black) Switch on the power. The LED blinks once When the offset is set to 2V5, the LED remains lit. Setting Offset to 2V5 Switch off the power and remove the 4K7 resistor.



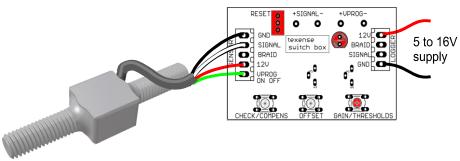
Apply the desired compression force to the device. Place a 10K Resistor between analog output (white) and OV (black) Switch on the power. The LED blinks twice When the threshold is recorded, the LED remains lit. Switch off the power and remove the 10K resistor. If the force is less than about 50N, the compression threshold will be kept at this default value.

Compression and tension settings are independent, operate them separately

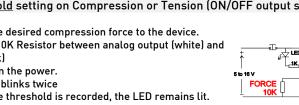
## Check mode:



# A switch board is available at Texys to help the setting operations







Setting Compression or Tension Threshold

Force

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