



GEAR CUT – Tension / Compression

This easy to install device has an overall dimension of only 60mm and is suited to many applications.

This lightweight part is manufactured in Titanium, has a choice of three thread styles and is used by many major OEM competitors.

It will work with a supply voltage between 5 and 16V and can be powered directly from the chassis wiring system.

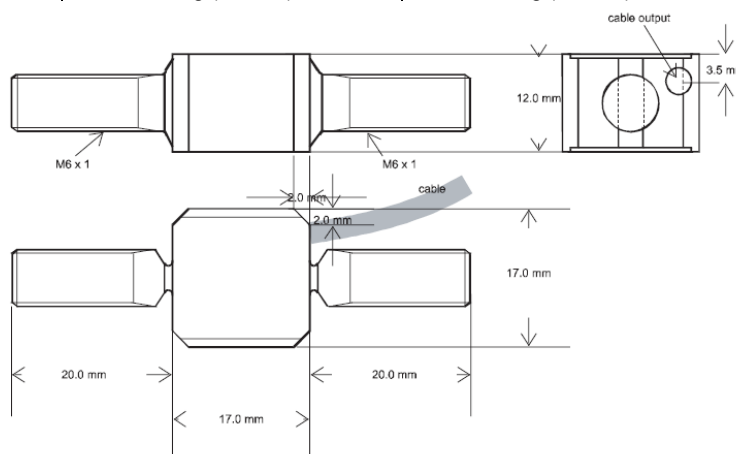
Output is either $\pm 2V$ analogue via a built-in amplifier, or digital with an adjustable threshold. Range is available in 100N increments.

Part Number ¹	GSMM6 - Force Value	GSMM7 - Force Value	GSMM8 - Force Value
SENSOR CHARACTERISTICS			
Range	$\pm 1000N$, overload $\pm 1500 N$		
Analogue Signal	Offset $2.5V_{\pm 25mV}$		
Sensitivity ²	$2mV/N \pm 0.5$		
Cut Off Frequency	30Hz		
Offset Drift with Temperature	$<10mV$		
Digital On/Off Output	NPN open collector, normally open, max 16V, 20mA.		
	Switched to 0V when detected		
	Must be protected by diode against inductive loads – relays, etc.		
	Debounce Time – 30msec		
	Adjustable Threshold – 50N increments		
ELECTRICAL CHARACTERISTICS			
Supply Voltage	5 to 16V		
Current draw	8mA		
Standard Supplied Cable ³	1 mtr ETFE 26AWG STT		
Circuit Colours ⁴	Red +VE, White Sig, Blue Gnd.		
Screen Connection	To Case		
MECHANICAL CHARACTERISTICS			
Housing	Titanium		
Threads	M6, RH + LH	M7, RH + LH	M8, RH + RH
Fitting Recommendations	Install between 2 Rod End Bearings		
Operating Temperature Range	0 to $+85^{\circ}C$		
Weight	24g (+ cable)	25g (+ cable)	26g (+ cable)

Notes.

1. Part number for an M7 threaded part, rated at 1000N, would be – GSMM7-1000.
2. Below 5V, the output will be ratiometric with offset at half the supply voltage.
3. Screened Twisted Triple is available in other specifications if required.
4. Circuit colours may differ with different cables – always check the calibration sheet supplied with each sensor.

For more information, or to place an order, please contact Steve or Tony James at the address below.



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