EUROSENSOR

VGS-T-1000-M8 (1UAB04) TENSION / COMPRESSION GEAR SHIFT SENSOR



- **Digitalized amplifier included**
- **Robust Motorsport design**
- **Easy to install**

The VGS-T-1000-M8 (1UAB04) is a gear shift sensor based on strain gauge technology with integrated amplifiers providing data for vehicle electronics to trigger gear change without the need of touching the clutch. The +/- 1000 N tension/compression sensor supports with its specifications the typical requirements in motorsport applications.

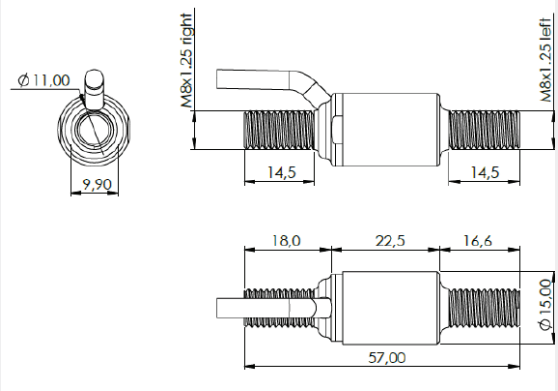
Specifications

Performence	
Range	±1000 N
Accuracy	± 5 N
Overlast	± 5000 N
Offset (no force)	2.500 ± 0.025 V
Offset-Drift with temperature	<10 mV
Gain drift with temperature	0.2 %
Cut off frequency	30 Hz
Electrical	
Supply voltage	6 to 16 V
Supply Current	18 mA

Mechanical	
Dimensions (without cable)	57 x 15 x 15 mm
Material	Stainless steel + Aluminium cover
Thread size	M8 x 1.25
Weight (without cable)	35 g
Cable	4 x 26 AWG FEP tinned copper braided cable 250V 200 °C Length: 1000 mm ±10%
Environment	
Protection	IP65
Vibration test	20 Gpp 5´
Shock	500 G
Accuracy temp	-20 bis +85 °C
Operating temp.	-40 bis +85 °C
Storage temp.	-40 bis +125 ° C

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TENSION / COMPRESSION GEAR





Wiring		
Colour	Funkcion	Pin
Red	Supply	-
Black	0V	-
White	Analog signal 0 - 5 V	-
Green	Reversed (do not connect)	-
Braid	-	

Sensor readings	
Force (N)	Output signal (V)
0	2.500
1000	5.000
Sensitivity (mV/N)	2.500

Ordering code: 22360-VGS-T-1000-M8 (1UAB04)