



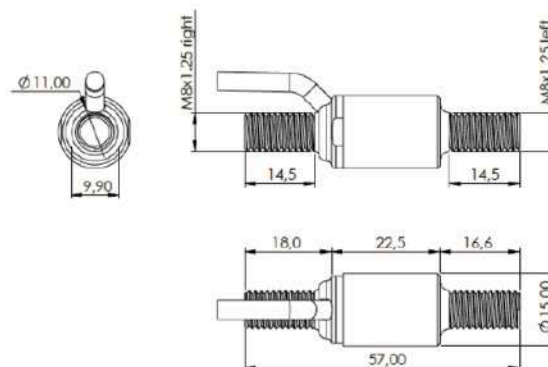
- ▶ Digitalized amplifier included
- ▶ Robust Motorsport design
- ▶ Easy to install

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	
Performance	
Range	±1000 N
Accuracy	± 5 N
Overload	± 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	90 Hz
Electrical	
Supply voltage	6 to 16 V
Supply Current	10 mA
Mechanical	
Dimensions (without cable)	57 x 15 x 15 mm
Material	Ti 6-4 + Aluminum cover
Thread size	M8 x 1.25
Weight (without cable)	18.5 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 to +85 °C
Operating temp.	-40 to +85 °C
Storage temp.	-40 to +85 °C



Dimensions



Wiring

4*26 AWG FEP Tinned copper braided cable 250V 200 °C

Length: 1000 mm ± 10 %

Tubing:

Connector:

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

Sensor readings

Force (N)	Output signal (V)
0	2.500
1000	4.500
Sensitivity (mV/N)	2.000

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