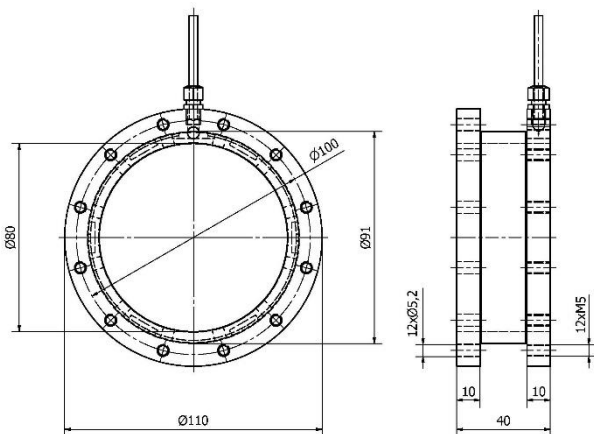


Characteristic

The EMS310 strain gauge sensor is designed to measure static torque. It can be used to measure the characteristics of the engine or gearbox, to check the maximum torque or, if connected to an electronic unit, to regulate the torque. The sensor is designed to suppress erroneous force components as axial force or torque in the radial direction.



Dimensions (mm)



Parameters

Range	700 Nm
Safe overload	130 % F.S.
Ultimate overload	150 % F.S.
Nominal sensitivity	1.5 mV/V ± 2 %
Zero balance	1 % F.S.
Non-linearity	0.25 % F.S.
Hysteresis	0.50 % F.S.
Temperature effect	
- On zero	0.01 % F.S./°C
- On output	0.01 % F.S./°C
Input bridge resistance	1100Ω ± 50Ω
Output bridge resistance	1050Ω ± 20Ω
Insulation Impedance	> 5000 MΩ
Excitation	
- Recommended	10 V
- Maximal	15 V
Temperature range	
- Compensated	0 ... + 50 °C
- Operating	- 10 ... + 80 °C
Protection	IP54
Construction	Stainless steel
Cable	
- Type	LifYDY 4 x 0,05
- Length	2 m

Wiring

