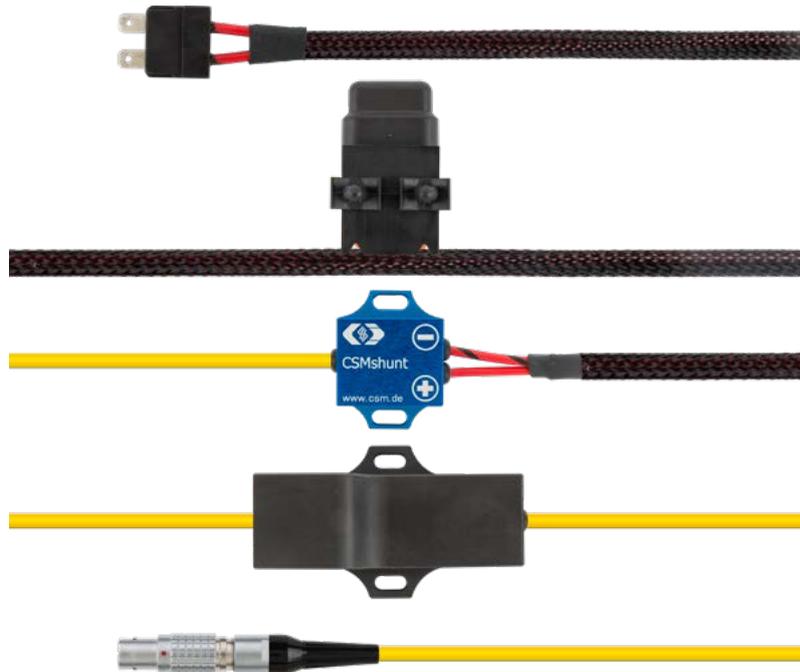


CSMshunt Fuse

Type 2.5 A | 25 A



Product description

CSMshunts provide the means to complement the range of applications for AD measurement modules with current measurements.

The input of the **CSMshunt Fuse** is directly plugged into an ATO fuse holder. The original flat fuse of the vehicle is placed in a fuse holder attached to the cable which is designed for fuses up to 30 A and a permanent current of $\pm 21A$.

CSMshunt Fuse devices are shipped ready to be installed.

Keyfeatures

- ▶ Shunt-based solution for current measurements directly at the vehicle's ATO fuse holder
- ▶ Robust housing with external measurement amplifier
- ▶ For the measurement ranges 2.5 A/25 A (pre-assembled)

Shipping content

- ▶ CSMshunt Fuse | Fuse adapter
- ▶ Calibration certificate

Technical data

Type designation	CSMshunt 2.5A Fuse	CSMshunt 25A Fuse
		
Continuous current	±2.5A	±21A (Shunt: ±25A)
Maximum fuse value	5A	30A
Maximum voltage	32V	
Resistance	10 mΩ	1 mΩ
Threshold frequency	1.4 kHz	
Maximum output voltage	±10V @ ± I _{rated}	
Measurement accuracy		
at 25 °C	±0.5 % of measured value ±0.25 mA	±0.5 % of measured value ±2.5 mA
Temperature drift	typ. 60 ppm/K	
Galvanic isolation ¹	no safety isolation in terms of high-voltage applications	
Excitation	500V	
Measurement signal	none ²	
Power supply		
Minimum	12V DC	
Maximum	15V DC	
Current consumption	typ. 12.5 mA at 12V DC	
Housing		
Protection class		
Shunt	IP67	
Amplifier	IP67	
Fuse holder	IP33	
Weight	approx. 120g	
Dimensions (W × H × D)		
Shunt	41 × 15 × 30 mm	
Amplifier	80 × 30 × 30 mm	

Type designation	CSMshunt 2.5 A Fuse	CSMshunt 25 A Fuse
Connectors		
Input	ATO fuse adapter	
Output		
Fuse Adapter	—	
Shunt	LEMO 0B, 6-pole ³	
Operating and storage conditions		
Operating temperature range	-40 °C to +120 °C	
Relative humidity	5 % to 95 %	
Storage temperature	-40 °C to +120 °C	
Conformity	CE	

¹ CSMshunt Fuse devices are designed for measurements in vehicles with 12 V and 24 V on-board power supply systems. Not suitable to be directly connected to systems with operating voltages >32 V, e.g. high-voltage batteries of hybrid or electric vehicles.

² The galvanic isolation of measurement signals has to be effected by the measurement module.

³ Optionally available in other variants.



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