



FSM Elektronik GmbH | Scheffelstraße 49 | D-79199 Kirchzarten
 Telefon +49 (0) 7661.98 55-0 | Telefax +49 (0) 7661.98 55-11
 info@fsm-elektronik.de | www.fsm-elektronik.de

The current sensor of the type DHSS is suitable for measurement of currents from -10A up to 50 kA. Due to the measurement principle (differential measurement) the sensor is especially interference and less susceptible to external interferences.

Fields Of Application

Monitoring of electro motors, galvanic processes, battery packs and transformer circuits

Features

- > High immunity by differential measurement
- > Overcurrent
- > Easy to implement
- > Integrated isolation amplifiers
- > Current and voltage interface
- > In customer specific conductor usable

Benefits

- > Flexible designs from small up to very high ranges
- > Adjustable ranges
- > Low power dissipation
- > AC- and DC-measurement
- > Electrical isolation
- > No hysteresis effect

Technische Daten

Performance Characteristics: TA -20°C ...+105°C, Vdc=24V

Nominal current	10... 50.000 A
Frequency bandwidth	1... 50 kHz
Symmetry	100 +/-1%
Nonlinearity	+/-1%
Zero current output	0... 20/ 4... 20 mA; 0... 10 V or BUS serial
Response time	40 µs
Electrical offset error	1 %
Total output error	+/- 2 %
Supply voltage	19... 31 VDC/ VAC
Operating temperature range	-20°C to +105°C
Storage temperature range	-40°C to +150°C
Stress, vibration	5g (10-200Hz) 1 octave/min 24h/axis
Stress, shock	30g, 11ms, 3 shocks/axis
Standards	EN1175-1 (Isolation 1kVAC between current busbar and circuit UL583-Class E)
EMV	DIN IEC 1000-4-4
ESD	DIN IEC 1000-4-2
Current consumption	< 50mA

