



ACTIVE CURRENT SENSORS

for the Automotive Industry

A highly accurate active current sensor optimized for sensing electric vehicle battery management systems. Utilizing shunt technology with a measurement range of up to 3,000 A with excursions to 4,000A, it can achieve higher than 0.2% accuracy scale.

In addition, it is available in a hybrid approach utilizing both shunt and hall technology to for redundancy.

PRODUCT HIGHLIGHTS

- Accuracy with ranges up to 4,000 A
- Ready to use current sensor signal
- Redundant technology approach to improve EV safety

PRODUCT OVERVIEW

Product / Solution Name	Active Current Sensor
Application Focus	Battery Management System
Sensor Type	Current Sensor

ORDERING INFORMATION

Description	Part Number
Model 1500A Active Current Sensor	2356415-1
Model 3000A Active Current Sensor	2355750-1


MAIN SPECIFICATIONS

	Model 1500A	Model 3000A
Transducer using Shunt Resistor Technology	100 $\mu\Omega$	50 $\mu\Omega$
Low Offset Error	Max ± 50 mA/ ± 100 mA ¹⁾	Max ± 100 mA/ ± 200 mA ¹⁾
High Measuring Current Range	$\pm 1,500$ A	$\pm 3,000$ A
Extended Measuring Current Range	$\pm 2,000$ A	$\pm 4,000$ A
Wide Operating Temperature Range	-40°C - 105°C	-40°C - 105°C
Accuracy (Over Temperature Range)	Sensitivity Error < 0.5% Linearity Error < 0.1%	Sensitivity Error < 0.5% Linearity Error < 0.1%
Output Signal	CAN (500 kbps)	CAN (500 kbps)

DIMENSIONS

Maximum Width	82.00 mm
Maximum Length	62.80 mm
Maximum Depth	19.00 mm

CONTACT INFORMATION

NORTH AMERICA Tel +1 800 522-6752	EUROPE Tel +31 73-624-6999	ASIA Australia: Tel +61 2-9840-8200 Hong Kong: Tel +852 2738-8731 Shanghai: Tel +86 21-3398-0000 Korea: Tel +82 2-3415-4500
SOUTH AMERICA Tel +54 11-4733-2015	AFRICA Tel +27 41-503-4500	Click here if you want to TALK TO A SPECIALIST 

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