



## ICD-A

### COMPACT CURRENT SENSING

ISAscale® shunt-based current sensor for automotive applications



### INTRODUCTION

The ICD series is a compact precision current measurement system. The system uses shunt-based current measurement technology for maximum accuracy and supports also sleep mode. Moreover, it contains a 16 bit ADC for measurement acquisition. The ICD can be used in many 12V DC applications. In high voltage systems an additional galvanic isolation is required.

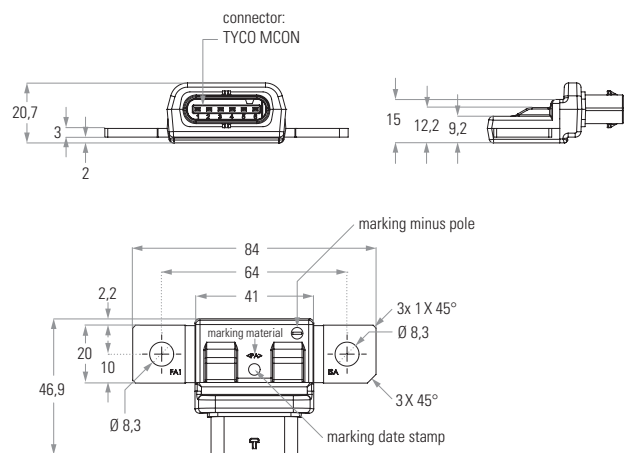
### APPLICATIONS

- 12 V start-stop system
- UPS systems
- Energy storage systems
- Battery applications
- Fuel cells

### FEATURES

- Current range up to  $\pm 500$  A
- 16-bit analog-digital converter
- CANbus data base container (DBC) available
- Outputrate: 1 KHz
- Ultra compact design
- CANbus 2.0 a/b
- Current consumption measurement
- Sleep mode

### DIMENSIONS [mm]



### TECHNICAL DATA

Description				Unit
Measurement range	$\pm 100$	$\pm 300$	$\pm 500$	A
Resolution		1		mA
Initial accuracy		$\pm 0.1$		% of reading
Total accuracy (-25 °C - 85 °C)		$\pm 0.5$		% of reading
Total accuracy (-40 °C - 105 °C)		$\pm 0.8$		% of reading
Offset	$\leq 10$	$\leq 35$	$\leq 60$	mA
Noise	$\leq 8$	$\leq 20$	$\leq 35$	mA (RMS)