



ICD-A

COMPACT CURRENT SENSING

ISAscale® shunt-based current sensor for automotive applications

INTRODUCTION

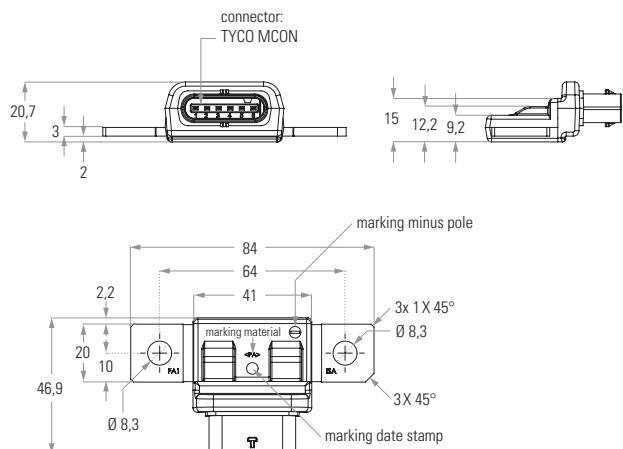
The ICD series is a compact precision current measurement system. The system uses shunt-based current measurement technology for maximum accuracy and supports also sleep mode. Moreover, it contains a 16 bit ADC for measurement acquisition. The ICD can be used in many 12V DC applications. In high voltage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



APPLICATIONS

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

DIMENSIONS [mm]



FEATURES

- Current range up to ± 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

TECHNICAL DATA

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