

## Technical description (Current Sensor)

### Features

- High EM compatibility
- 16 bit resolution
- very high accuracy
- low offset
- low drift
- very low noise
- isolated
- low energy consumption
- FPWM-signal transmission
- legible using one digital input
- max. 64 kHz sampling

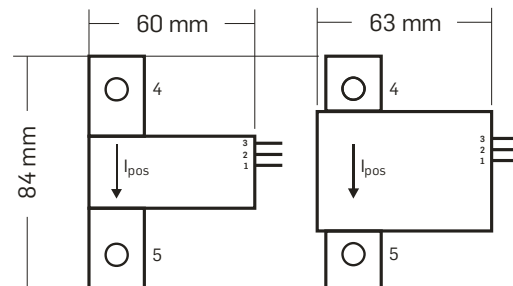
### Applications

- Batterymanagement for automotive
- AC/DC current measurement in drivetrains
- Solar-inverter
- Industrial applications

Development and sales in collaboration with (IPD-series):

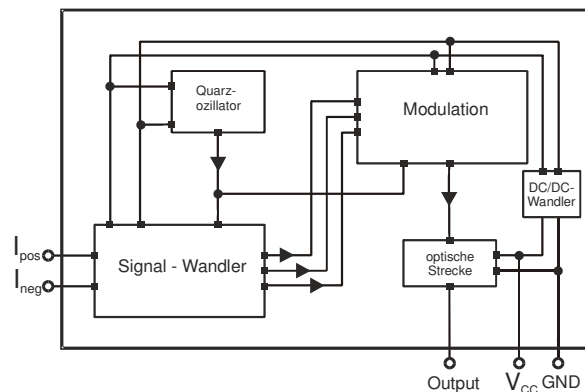
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### Pin configuration



Pin	Parameter
1	Supply voltage
2	Ground connection
3	Output signal
4	Current input
5	Current output

### Block diagram



Electrical parameters	Symbol	Min.	Typ.	Max.	
Supply voltage [V]	$V_{CC}$	3.3		5	
Measuring range <sup>1)</sup> [A]	$I_{out}$	$\pm 3$		$\pm 1000$	<sup>1)</sup> Depending on shunt-resistor
Conversion rate <sup>2)</sup> [Hz]	f	195		16000	<sup>2)</sup> Clock 8.192 MHz, others available
Output level <sup>3)</sup> [V]	$V_{out}$	3.3		5	<sup>3)</sup> Other level available
<b>Accuracy</b>					
Error over all [%]	X		<0.2	<0.4	
Linearity error [%]	$\epsilon_L$		<0.1	<0.3	
Offset error [ppm]	$\epsilon_{Off}$	<-400	<200	400	
Temperature drift [ppm/K]	$T_{drift}$	-35	$\pm 10$	35	

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