

Current Sensors

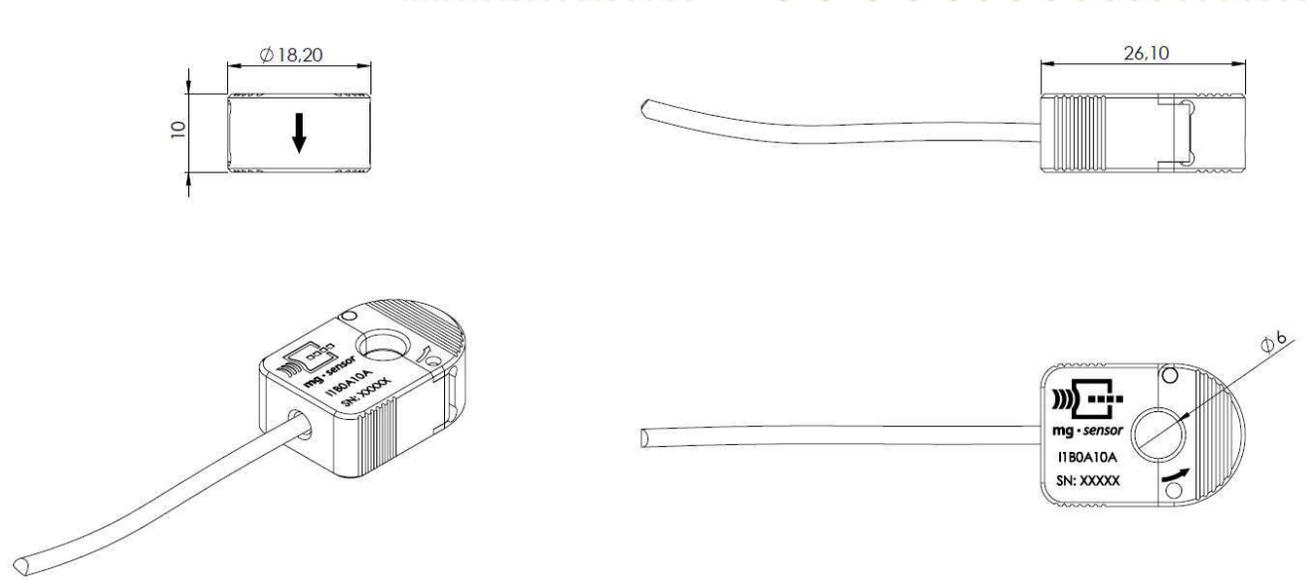
Description	Axial	Model*	Page
Current Pulse Sensor	1	<u>I1B0A10A</u>	204
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*additional versions available on request!

<h1>I1B0A10A</h1> 	Description		Current Pulse Sensor, 1-axial	
	Measuring range	A	±100	
	Calibration range	A	±30	Standard
	Sensitivity ¹⁾	mV/V/A	3,5	±1,5
	Output ^{1), 2)}	mV/V	350	
	Zero signal ¹⁾	mV/V	≤ 10	
	Response time ¹⁾	µs	3,0	
	Amplitude non-linearity ³⁾	%	≤ 1,5	
	Current consumption	mA	19	
	Supply voltage	V	5-10	
	Insulation resistance	MΩ	> 100	
	For cable diameter	mm	< 6,0	
	Temperature range	°C	-30..+70	
	Weight (approximate)	g	-	

All values measured 5 V sensor supply and at 23 °C.

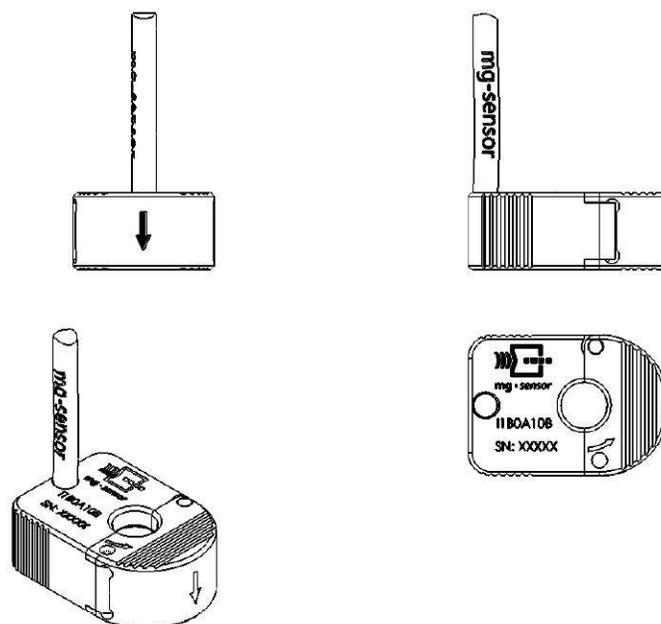
¹⁾Typical value, ²⁾At nominal load, ³⁾Relative calibration range ±30 A



<h1>I1B0A10B</h1> 	Description		Current Pulse Sensor, 1-axial	
	Measuring range	A	±100	
	Calibration range	A	±30	Standard
	Sensitivity ¹⁾	mV/V/A	3,5	±1,5
	Output signal ^{1), 2)}	mV/V	350	
	Zero signal ¹⁾	mV/V	≤ 10	
	Response time ¹⁾	µs	3,0	
	Amplitude non-linearity ³⁾	%	≤ 1,5	
	Current consumption	mA	19	
	Supply voltage	V	5-10	
	Insulation resistance	MΩ	> 100	
	For cable diameter	mm	< 6,0	
	Temperature range	°C	-30..+70	
Weight (approximate)	g	10		

All values measured 5 V sensor supply and at 23 °C.

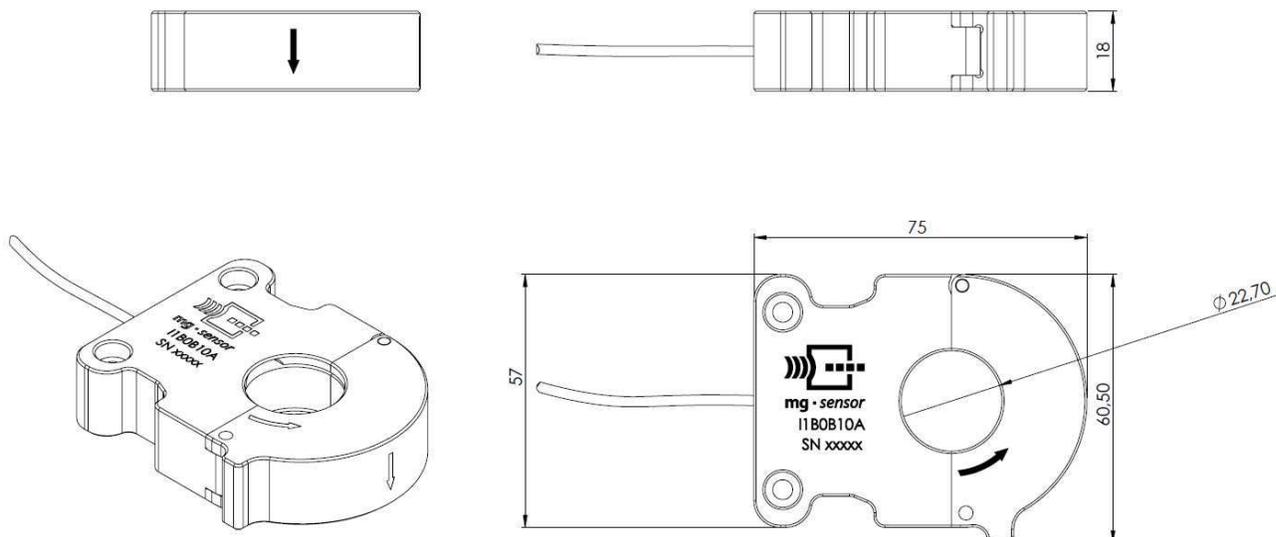
¹⁾ Typical value, ²⁾ At nominal load, ³⁾ Relative calibration range ±30 A



<h1>I1B0B10A</h1> 	Description		Current Pulse Sensor, 1-axial	
	Measuring range	A	±1500	
	Calibration range	A	±1500	Standard
	Sensitivity ¹⁾	mV/A	1,2	±0,2
	Output signal ^{1), 2)}	mV	1800	
	Zero signal ¹⁾	mV	≤ 20	
	Amplitude non-linearity ⁴⁾	%	≤ 1,5	
	Current consumption	mA	< 25	
	Supply voltage	V	5-10	
	Response time / 10% ³⁾	µs	3,5	
	Response time / 90% ³⁾	µs	7,5	
	Bandwidth (-3dB)	kHz	DC..10	
	Insulation resistance	MΩ	> 100	
	For cable diameter	mm	< 22	
	Temperature range	°C	-30..+70	
Weight (approximate)	g	160		

All values measured 5 V sensor supply and at 23 °C.

¹⁾ Typical value, ²⁾ At nominal load, ³⁾ Relative nominal range, ⁴⁾ Relative calibration range ±30 A



	Description		Current Pulse Sensor, 1-axial	
	Measuring range	A	±100	
	Calibration range	A	±6,0	Standard
	Sensitivity ¹⁾	A/digits	6e-04	
	Output signal ^{1), 2)}	Digits	6,0	
	Zero signal ¹⁾	Digit(approx.)	0,0	
	Response time ¹⁾	µs	3,0	
	Amplitude non-linearity ³⁾	%	≤ 3,5	
	Current consumption	mA	19	
	For cable diameter	mm	< 3,8	
	Temperature range	°C	-30...+70	
	Weight (approximate)	g	15	

All values measured 5 V sensor supply and at 23 °C.

¹⁾Typical value, ²⁾At nominal load, ³⁾Relative calibration range ±6 A

