

ELECTRICAL DATA								
BJHCS-K5	50A	100A	150A	200A	300A	400A	500A	600A
Nominal rms current I <sub>PN</sub> (A)	50	100	150	200	300	400	500	600
Sensed current range I <sub>PM</sub> (A)	±100	±200	±300	±400	±600	±800	±900	±900
Output voltage @ I <sub>P</sub> (V)	V <sub>OE</sub> ± (0,625*I <sub>P</sub> /I <sub>PN</sub> )							
Supply voltage V <sub>C</sub> (Vdc)	+5 V <sup>±5%</sup>							
Static current consumption I <sub>c</sub> (mA)	15							

ACCURACY DYNAMIC PERFORMANCE				<b>GENERAL &amp; ISOLATION CHARACTERISTICS</b>			
Accuracy X <sub>G</sub> @ I <sub>PN</sub> , T=25°C		± 1	%	Operating temperature range	-40 to +85	°C	
Offset voltage V <sub>OE</sub> @ I <sub>P</sub> =0, T=25°C		2,5±0,025	V	Storage temperature	-40 to +125	°C	
Offset voltage drift @ -40 to +85 °C	I <sub>PN</sub> =50A	≤ ± 2	mV/°C	Insulation voltage (50Hz, 1mn)	2,5	KV	
	Other	≤ ± 1	IIIV/ C	Weight	65	g	
Hysteresis offset voltage V <sub>OH</sub> @ -40 to +85 °C	I <sub>PN</sub> =50A	± 20	mV				
	Other	± 15	in v				
Linearity error $\epsilon_L$		≤ 1	% FS				
Response time tr		≤ 3	μs				
di/dt accurately followed		>100	A/µs				



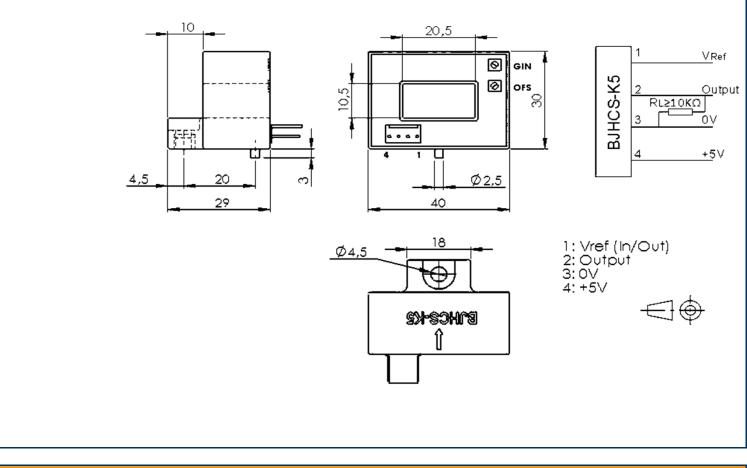
Components

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## DIMENSIONS



MECHANICAL CHARACTERISTICS				
General tolerance	± 0,2 mm			
Primary square through hole size	20,5 x 10,5 mm			
Transducer fastening	M4			
Recommended fastening torque	< 1,5 Nm			
Terminal connection	Molex 5045-04A			

## Cautions :

- I<sub>S</sub> is positive when I<sub>P</sub> flows in accordance with the arrow direction (see the top of the sensor);
- Primary conductor temperature should not exceed 100°C;
- Best dynamic performances (di/dt and response time) are achieved with a single electrical conductor completely filling the through hole;
- To achieve the best magnetic coupling, the primary winding must be wound around the top edge of the sensor.

**Required connection circuit :** 

• See drawing above.

## WARNING : Incorrect wiring may cause damage to the sensor.



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