

PN : BJHCS-P

IPN = 3A - 5A - 10A - 15A - 25A - 30A - 50A

Features

- Closed loop
- High accuracy
- Very good linearity
- Low response time
- Low power consumption
- Good over-current capability
- Supply voltage : $\pm 15V$ DC
- Voltage output
- Small PCB mounting
- Can be customised

Applications

- Frequency drive control home appliances
- Solar power management system
- Inverter applications
- Uninterruptible power supplies (UPS)
- Current monitoring



ELECTRICAL DATA

BJHCS-P-...	03A	05A	10A	15A	20A	25A	30A	50A
Nominal current rms IPN (A)	3	5	10	15	20	25	30	50
Sensed current range I_{PM} (A)	± 9	± 15	± 30	± 45	± 60	± 75	± 90	± 150
Coils turns ration K ($P^{ry} \cdot S^{ry}$)	6:1800	4:2000	3:3000	2:3000	1:2000	1:2500	1:3000	1:3125
Sampling resistor R_M (Ω)	400	400	400	400	400	400	400	250
Rated output voltage V_O (V)	± 4							
Supply voltage V_C (Vdc)	$\pm 15 \pm 0,5\%$							
Static current consumption I_C (mA)	< 15							

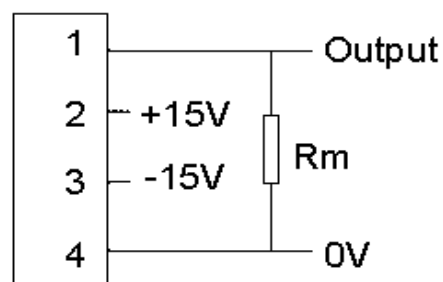
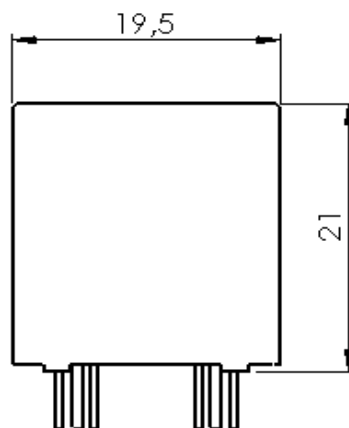
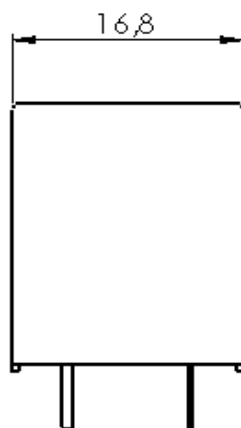
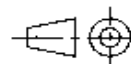
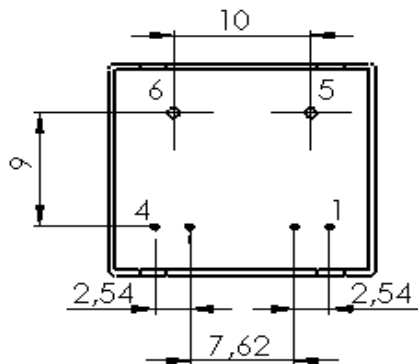
ACCURACY DYNAMIC PERFORMANCE

GENERAL & ISOLATION CHARACTERISTICS

Accuracy X_G @ I_{PN} , $T=25^\circ C$	$\pm 0,5$	%	Operating temperature	-40 to +85	$^\circ C$
Zero offset voltage V_{OE} @ $I_P=0$, $T=25^\circ C$	± 20	mV	Storage temperature	-40 to +125	$^\circ C$
Offset voltage drift V_{OE} @ - 40°C to 85°C	$\leq \pm 0,5$	mV/ $^\circ C$	Weight	12	g
Linearity error ϵ_L	$\leq 0,1$	% FS	Insulation voltage (50Hz, 1mn)	5	KV
di/dt accurately followed	> 50	A/ μs			
Response time t_r	≤ 1	μs			

DIMENSIONS

1: Out
2: +15V
3: -15V
4: 0V
5: - In
6: +In



MECHANICAL CHARACTERISTICS

BJHCS-P-...	03A	05A	10A	15A	20A	25A	30A	50A
Input pin (mm)	Ø 0,6	Ø 0,8	Ø 0,8	Ø 1,0	Ø 1,4	Ø 1,4	Ø 1,6	Ø 2
Terminal connection	4 pins, size 0,25 mm x 0,5 mm							
General tolerance	± 0,2 mm							

Cautions :

- Do respect the wiring diagram in accordance with the current value and its flow direction;
- For the required connection circuit, see the drawing above.

WARNING : Incorrect wiring may cause damage to the sensor.