

PN : BJHCS-BR

**IPN = 50A - 100A - 150A - 200A -
300A - 400A - 500A - 600A**

Features

- Open loop
- Frame mounting
- Connection by 4 wire cable
- Small size
- Easy installation
- High anti jamming capability
- Supply voltage : $\pm 15V$ DC
- Voltage output
- Through hole primary
- Can be customized

Applications

- AC/DC variable speed motor driver
- Battery applications
- Uninterruptible power supplies (UPS)
- Power supplies for welding applications
- Switching Power Supply (SMPS)



ELECTRICAL DATA

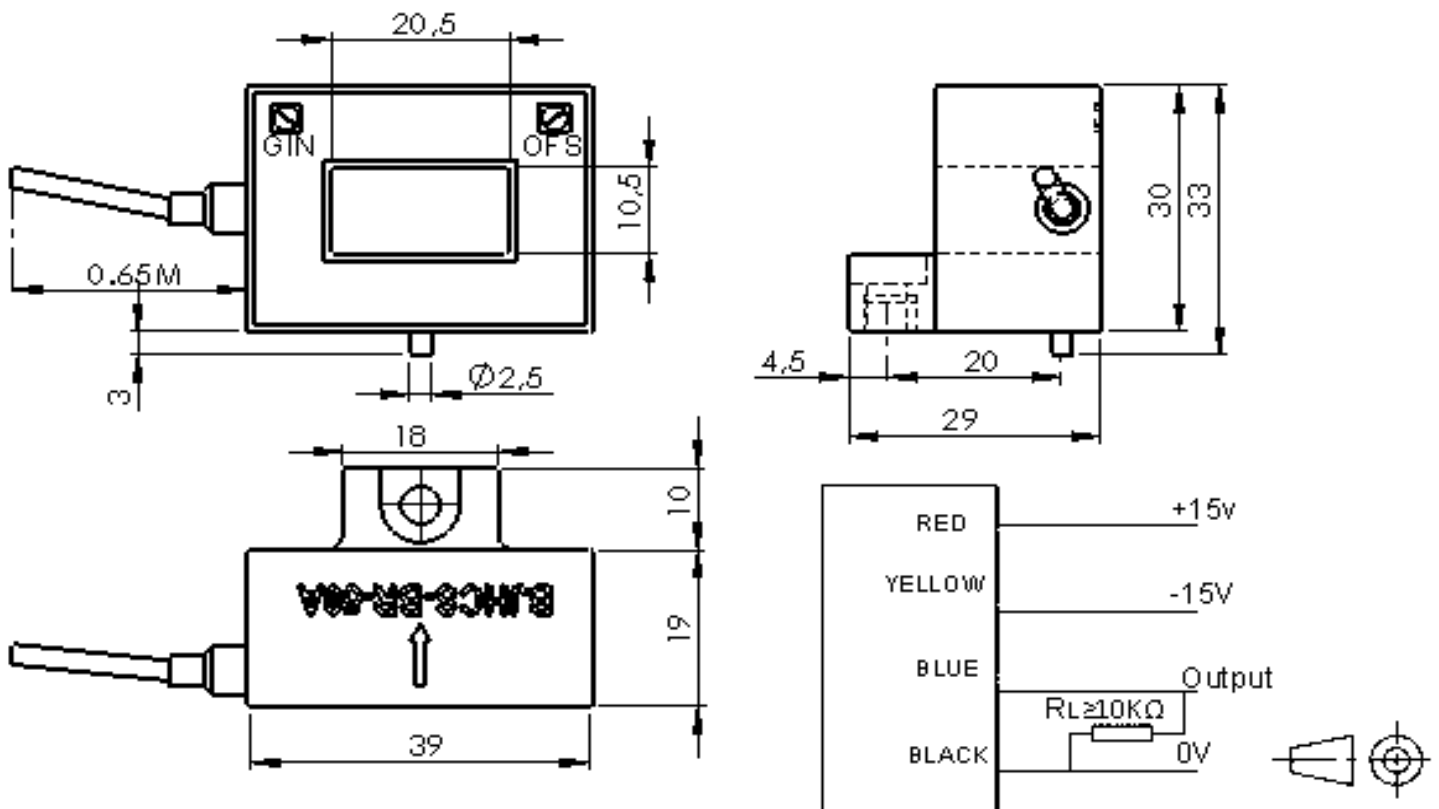
| BJHCS-BR-... | 50A | 100A | 150A | 200A | 300A | 400A | 500A | 600A |
|---------------------------------------|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Nominal current rms I_{PN} (A) | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 |
| Sensed current range I_{PM} (A) | ± 150 | ± 300 | ± 450 | ± 600 | ± 900 | ± 900 | ± 900 | ± 900 |
| Rated output voltage @ I_{PN} (V) | ± 4 | | | | | | | |
| Supply voltage V_C (Vdc) | $\pm 15 V \pm 5\%$ | | | | | | | |
| Static current consumption I_C (mA) | ≤ 15 | | | | | | | |

ACCURACY DYNAMIC PERFORMANCE

GENERAL & ISOLATION CHARACTERISTICS

| | | | | | |
|---|--------------|----------------|--------------------------------|-------------|------------|
| Accuracy X_G @ I_{PN} , $T=25^\circ C$ | ± 1 | % | Operating temperature range | -40 to +85 | $^\circ C$ |
| Zero Offset voltage V_{OE} @ $I_P=0$, $T=25^\circ C$ | ± 25 | mV | Storage temperature | -40 to +125 | $^\circ C$ |
| Offset voltage drift @ -40 to +85 $^\circ C$ | $I_{PN}=50A$ | $\leq \pm 1$ | mV/ $^\circ C$ | Weight | 75 |
| | Other | $\leq \pm 0,5$ | | | |
| Hysteresis offset voltage V_{OH} @ -40 to +85 $^\circ C$ | $I_{PN}=50A$ | ± 25 | mV | Lead length | 650 |
| | Other | ± 20 | | | |
| Linearity error ϵ_L | ≤ 1 | % FS | Insulation voltage (50Hz, 1mn) | 2,5 | KV |
| Response time tr | ≤ 3 | μs | | | |

DIMENSIONS



MECHANICAL CHARACTERISTICS

| | |
|----------------------------------|---|
| General tolerance | ± 0,2 mm |
| Primary square through hole size | 20,5 x 10,5 |
| Transducer fastening | M4 |
| Recommended fastening torque | < 1,5 Nm |
| Terminal connection | 4 wires cable 650mm length, stripped and tinned leads |

Cautions :

- I_S is positive when I_P 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.