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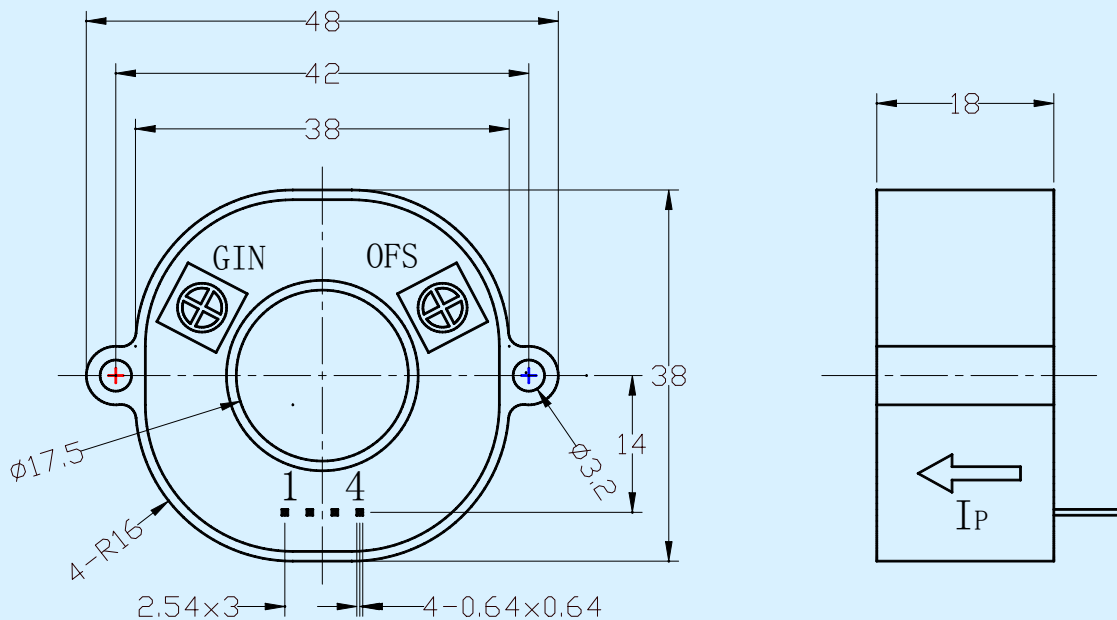
CS1000ED Hall-effect Current Sensor Series



Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

| Electrical characteristics | | | | | | | |
|----------------------------|------------------------------------|----------------------------------|---------|---------|----------|---------|-------|
| Type | CS200ED | CS400ED | CS600ED | CS800ED | CS1000ED | | |
| I_{PN} | Primary nominal input current | 200 | 400 | 600 | 800 | 1000 | A |
| I_P | Measuring range of primary current | 0~±400 | 0~±800 | 0~±1200 | 0~±1200 | 0~±1200 | A |
| V_{OUT} | Nominal output voltage | 4±1% | | | | | V |
| V_C | Supply voltage | ±12~±15(±5%) | | | | | V |
| I_C | Current consumption | $V_C=±15V$ | <25 | | | | mA |
| V_D | Insulation voltage | AC/50Hz/1min | 2.5 | | | | kV |
| ϵ_L | Linearity | <1 | | | | | %FS |
| V_O | Offset voltage | $T_A=25^\circ C$ | <±25 | | | | mV |
| V_{OM} | Residual voltage | $I_{PN} \rightarrow 0$ | <±25 | | | | mV |
| V_{OT} | Thermal drift of V_O | $I_P=0$ $T_A=-25\sim+85^\circ C$ | <±1 | | | | mV/°C |
| T_R | Response time | ≤7 | | | | | μs |
| f | Frequency bandwidth(-3dB) | DC~20 | | | | | kHz |
| T_A | Ambient operating temperature | -25~+85 | | | | | °C |
| T_S | Ambient storage temperature | -40~+100 | | | | | °C |
| R_L | Load resistance | ≥10 | | | | | KΩ |
| Standard | | Q/320115QHKJ01-2010 | | | | | |

Dimensions of drawing (mm)



Elucidation: 1:+15V 2:-15V 3:V_{OUT} 4:0V(GND) OFS:Zero adjustment GIN:Gain adjustment

Remarks

- Incorrect connection may lead to the damage of the sensor.
- V_{OUT} is positive when the I_P flows in the direction of the arrow.