

Solid State Sensors

Closed Loop Current Sensors

CSN Series

CSNF, CSNR, CSNP, CSNT SERIES ORDER GUIDE

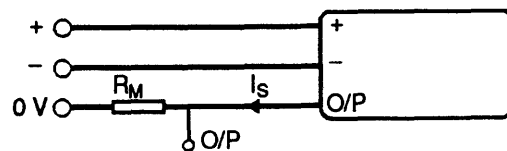
| Catalog Listings | Peak Current Range Amps | Supply Voltage VDC \pm 5% | Coil Characteristics | | Meas. Currents Nom. | Meas. Resist (@ I_{nom}) |
|------------------|-------------------------|-----------------------------|----------------------|---------------------|---------------------|-----------------------------|
| | | | Turns | Resistance | | |
| CSNP661 | \pm 90 | \pm 12 to 15 | 1000 | 30 Ω @ 70°C | 50 mA for 50 A | 50 to 100 Ω |
| CSNT651 | \pm 150 | \pm 12 to 15 | 2000 | 100 Ω @ 70°C | 25 mA for 50 A | 40 to 75 Ω |
| CSNF161 | \pm 150 | \pm 12 to 15 | 1000 | 30 Ω @ 70°C | 100 mA for 100 A | 10 to 40 Ω |
| CSNF151 | \pm 180 | \pm 12 to 15 | 2000 | 100 Ω @ 70°C | 50 mA for 100 A | 10 to 75 Ω |
| CSNR161 | \pm 200 | \pm 12 to 15 | 1000 | 30 Ω @ 70°C | 125 mA for 125 A | 30 to 40 Ω |
| CSNR151 | \pm 200 | \pm 12 to 15 | 2000 | 100 Ω @ 70°C | 62.5 mA for 125 A | 10 to 40 Ω |

NOTE: Busbar options available.

SPECIFICATIONS

| Catalog Listings | CSNP661 | CSNT651 | CSNF161 | CSNF151 | CSNR161 | CSNR151 |
|-----------------------------------|---|------------------------------------|--|------------------------------------|------------------------------------|------------------------------------|
| Offset Current @ 25°C, mA max. | \pm 0.20 | \pm 0.10 | \pm 0.20 | \pm 0.10 | \pm 0.20 | \pm 0.10 |
| Temperature Drift, 0 to 70°C, mA | \pm 0.30 typ. \pm 0.50 max. | \pm 0.15 typ. \pm 0.25 max. | \pm 0.30 typ. \pm 0.50 max. | \pm 0.15 typ. \pm 0.25 max. | \pm 0.30 typ. \pm 0.60 max. | \pm 0.15 typ. \pm 0.30 max. |
| Linearity | \pm 0.1% | \pm 0.1% | \pm 0.1% | \pm 0.1% | \pm 0.1% | \pm 0.1% |
| Supply Voltage | \pm 12 to 15V | \pm 12 to 15V | \pm 12 to 15V | \pm 12 to 15V | \pm 12 to 15V | \pm 12 to 15V |
| Galvanic Isolation @ 50 Hz/1 min. | 3 kV rms | 3 kV rms | 3 kV rms | 3 kV rms | 3 kV rms | 3 kV rms |
| Accuracy | \pm 0.5% of I_n (nominal Current) at 25°C | | | | | |
| Response Time | <500 ns | | | | | |
| Bandwidth | DC to 150 kHz | | | | | |
| Operating Temperature | -40 to 85°C (-40 to 185°F) | | -40 to 85°C (-40 to 185°F) | | | |
| Storage Temperature | -40 to 90°C (-40 to 194°F) | | -40 to 90°C (-40 to 194°F) | | | |
| Primary Circuit Connection | Thru-hole | | | | | |
| Secondary Circuit Connection | 3 pins | | | | | |
| Current Drain | 10 mA (no load current) + output current | | 14 mA (no load current) + output current | | | |
| "In-Out" Sense Signal | To obtain positive measuring current on O/P terminal, current must flow in direction of arrow | | | | | |
| Mounting | 3 pins | | | | | |
| Pin Style | A | A | B | B | B | B |

WIRING DIAGRAM



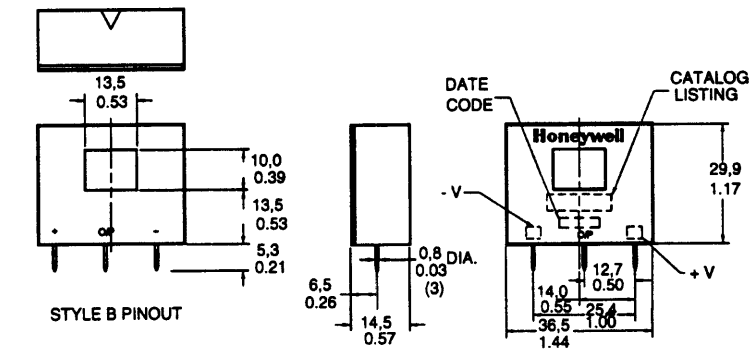
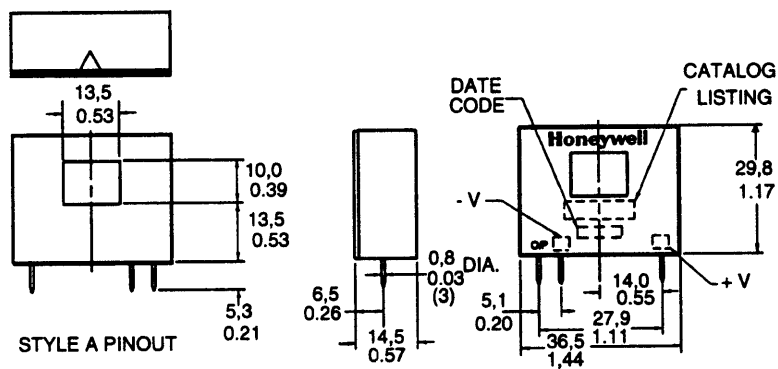
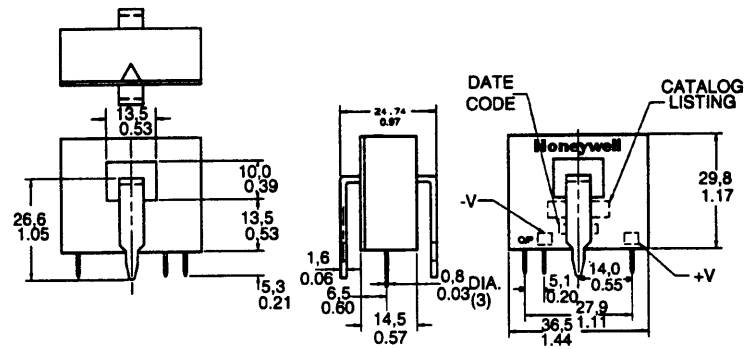
Current

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MOUNTING DIMENSIONS (for reference only)



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