

Solid State Sensors

Closed Loop Current Sensors

CSN Series

CSNF, CSNR, CSNP, CSNT SERIES ORDER GUIDE

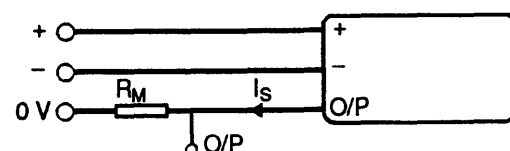
Catalog Listings	Peak Current Range Amps	Supply Voltage VDC $\pm 5\%$	Coil Characteristics		Meas. Currents Nom.	Meas. Resist (@ I_{nom})
			Turns	Resistance		
CSNP661	± 90	± 12 to 15	1000	$30\Omega @ 70^\circ\text{C}$	50 mA for 50 A	50 to 100Ω
CSNT651	± 150	± 12 to 15	2000	$100\Omega @ 70^\circ\text{C}$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

NOTE: Busbar options available.

SPECIFICATIONS

Catalog Listings	CSNP661	CSNT651	CSNF161	CSNF151	CSNR161	CSNR151
Offset Current @ 25°C, mA max.	±0.20	±0.10	±0.20	±0.10	±0.20	±0.10
Temperature Drift, 0 to 70°C, mA	±0.30 typ. ±0.50 max.	±0.15 typ. ±0.25 max.	±0.30 typ. ±0.50 max.	±0.15 typ. ±0.25 max.	±0.30 typ. ±0.60 max.	±0.15 typ. ±0.30 max.
Linearity	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%
Supply Voltage	±12 to 15V	±12 to 15V	±12 to 15V	±12 to 15V	±12 to 15V	±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	±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

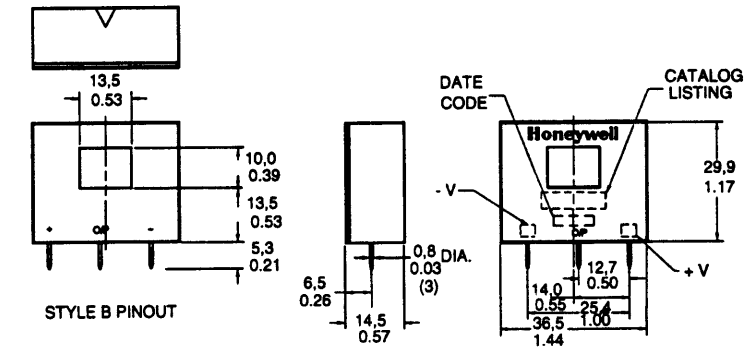
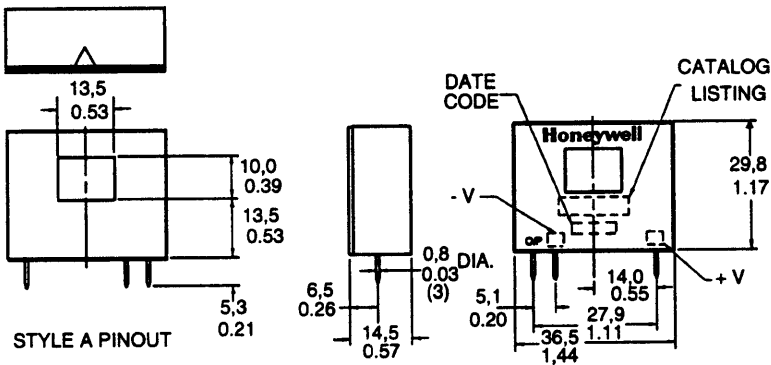
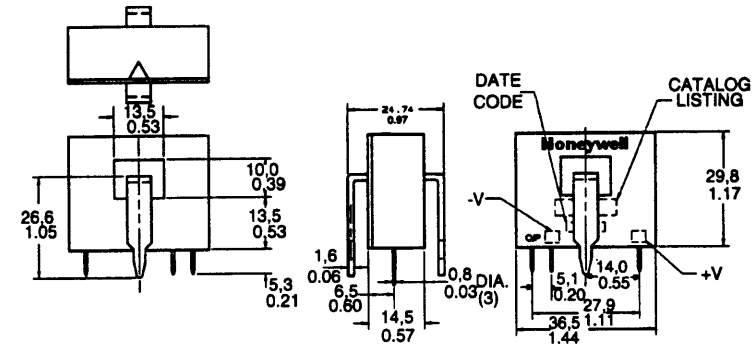


Current

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MOUNTING DIMENSIONS (for reference only)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Honeywell:

[CSNP661](#) [CSNR151](#) [CSNR161](#) [CSNT651](#)