Solid State SensorsClosed Loop Current Sensors

CSNF, CSNR, CSNP, CSNT SERIES ORDER GUIDE

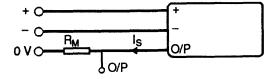
	Peak	Supply Voltage VDC ± 5%	Coil Characteristics		Meas.	
Catalog Listings	Current Range Amps		Turns	Resistance	Currents Nom.	Meas. Resist (@ I _{nom})
CSNP661	±90	±12 to 15	1000	30Ω @ 70°C	50 mA for 50 A	50 to 100Ω
CSNT651	±150	±12 to 15	2000	100Ω @ 70°C	25 mA for 50 A	40 to 75Ω
CSNF161	±150	±12 to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

NOTE: Busbar options available.

SPECIFICATIONS

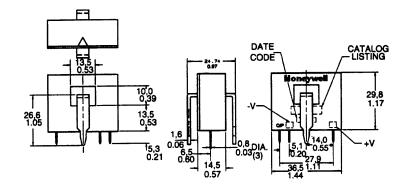
Catalog Listings	CSNP661	CSNT651	CSNF161	CSNF151	CSNR161	CSNR151				
Offset Current @ 25°C, mA max.	±0.20	±0.10	±0.20	±0.10	±0.20	±0.10				
Temperature Drift, 0 to 70°C, mA	±0.30 typ. ±0.50 max.	±0.15 typ. ±0.25 max.	±0.30 typ. ±0.50 max.	±0.15 typ. ±0.25 max.	±0.30 typ. ±0.60 max.	±0.15 typ. ±0.30 max.				
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 (r	±0.5% of I _N (nominal Current) at 25°C								
Response Time	<500 ns	<500 ns								
Bandwidth	DC to 150 kH	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 90°C (-40 to 194°F)		-40 to 90°C (-40 to 194°F)						
Primary Circuit Connection	Thru-hole	Thru-hole								
Secondary Circuit Connection	3 pins	3 pins								
Current Drain	,	10 mA (no load current) + output current		14 mA (no load current) + output current						
"In-Out" Sense Signal	To obtain pos	To obtain positive measuring current on O/P terminal, current must flow in direction of arrow								
Mounting	3 pins	3 pins								
Pin Style	Α	Α	В	В	В	В				

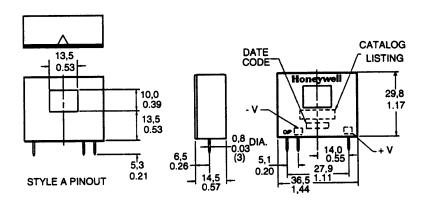
WIRING DIAGRAM

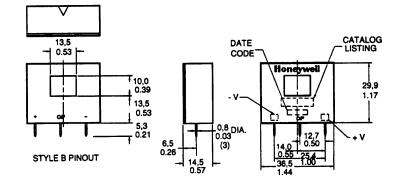


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MOUNTING DIMENSIONS (for reference only)







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 $\frac{\text{Honeywell}:}{\text{CSNF161}}$