

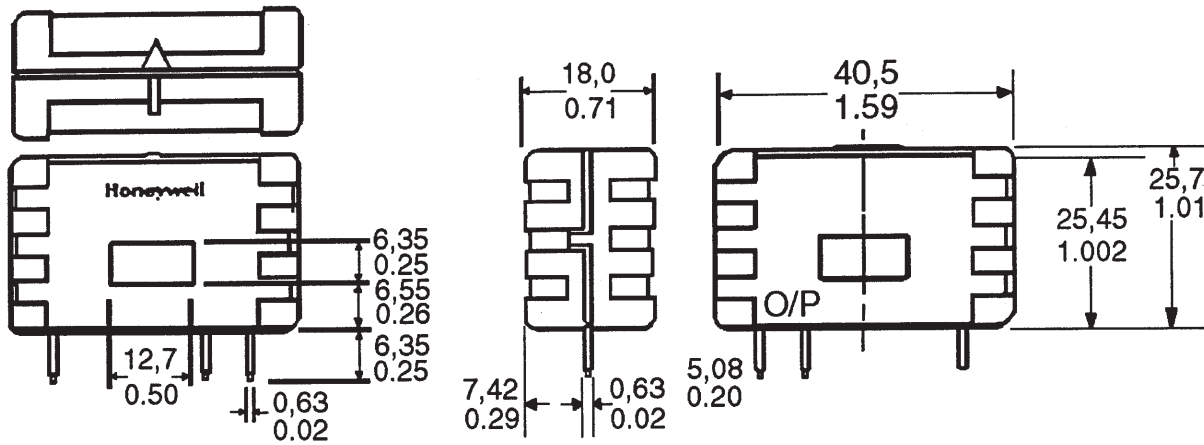
Solid State Sensors

Closed Loop Current Sensors

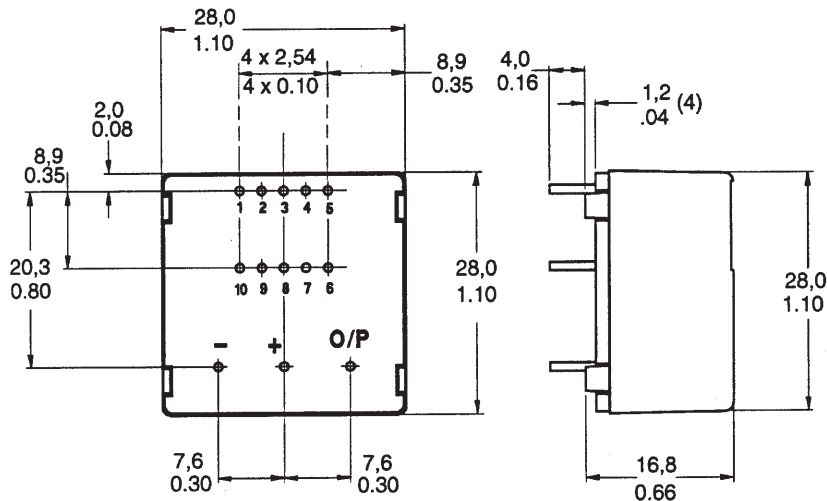
CSN Series

MOUNTING DIMENSIONS (for reference only)

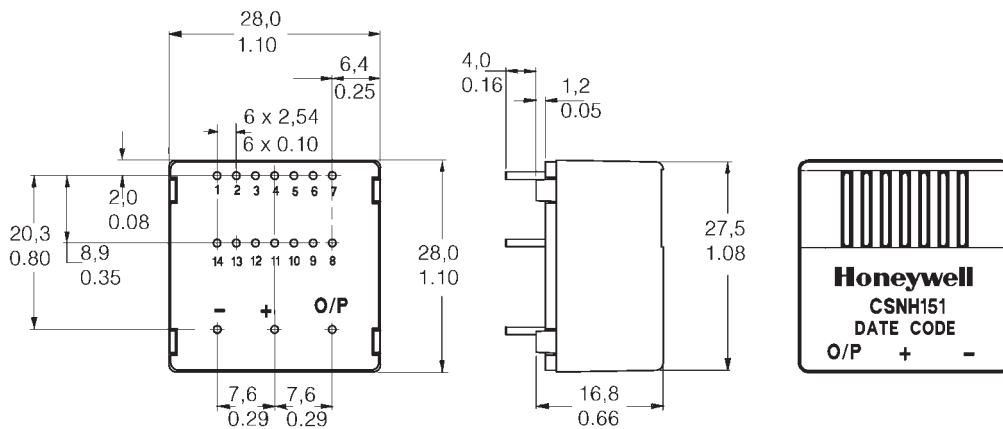
CSNA111, CSNB121, CSNB131



CSNE151/CSNE381



CSNH151



Solid State Sensors

Closed Loop Current Sensors

CSN Series

CSNJ, CSNK SERIES ORDER GUIDE

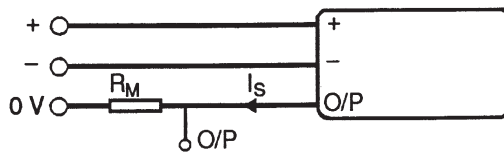
Catalog Listings	Current Range Amps	Supply Voltage VDC $\pm 5\%$	Coil Characteristics		Meas. Currents Nom.	Meas. Resist (@ I_{nom})
			Turns	Resistance		
CSNJ481	± 600	± 12 to 18	2000	25 Ω @ 70°C	150 mA for 300 A	0 to 70 Ω
CSNJ481-001*	± 600	± 12 to 18	2000	25 Ω @ 70°C	150 mA for 300 A	0 to 70 Ω
CSNJ481-002	± 600	± 12 to 18	2000	25 Ω @ 70°C	150 mA for 300 A	0 to 70 Ω
CSNJ481-003*	± 600	± 12 to 18	2000	25 Ω @ 70°C	150 mA for 300 A	0 to 70 Ω
CSNK591	± 1200	± 15 to 24	5000	50 Ω @ 70°C	100 mA for 500 A	0 to 130 Ω
CSNK591-001*	± 1200	± 15 to 24	5000	50 Ω @ 70°C	100 mA for 500 A	0 to 130 Ω
CSNK591-002	± 1200	± 15 to 24	5000	50 Ω @ 70°C	100 mA for 500 A	0 to 130 Ω
CSNK591-003*	± 1200	± 15 to 24	5000	50 Ω @ 70°C	100 mA for 500 A	0 to 130 Ω

*Fitted with busbar

SPECIFICATIONS

Catalog Listings	CSNJ481 CSNJ481-001	CSNJ481-002 CSNJ481-003	CSNK591 CSNK591-001	CSNK591-002 CSNK591-003
Offset Current @ 25°C, mA max.	± 0.30	± 0.30	± 0.20	± 0.20
Temperature Drift, 0 to 70°C, mA	± 0.30 typ. ± 0.50 max.	± 0.30 typ. ± 0.50 max.	± 0.20 typ. ± 0.30 max.	± 0.20 typ. ± 0.30 max.
Linearity	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$
Supply Voltage	± 12 to ± 18 V	± 12 to ± 18 V	± 15 to ± 24 V	± 15 to ± 24 V
Galvanic Isolation @ 50 Hz/1 min.	7.5 kV rms	7.5 kV rms	6 kV rms	6 kV rms
Accuracy	$\pm 0.5\%$ of I_n (nominal Current) at 25°C			
Response Time	<1 μ s			
Bandwidth	DC to 150 kHz			
Operating Temperature	-40 to 85°C (-40 to 185°F)	0 to 70°C (32 to 158°F)	-40 to 85°C (-40 to 185°F)	0 to 70°C (32 to 158°F)
Storage Temperature	-40 to 90°C (-40 to 194°F)	-25 to 85°C (-13 to 85°F)	-40 to 90°C (-40 to 194°F)	-25 to 85°C (-13 to 85°F)
Primary Circuit Connection	Thru-hole or busbar	Thru-hole or busbar	Thru-hole or busbar	Thru-hole or busbar
Secondary Circuit Connection	3 pins	3 pins	3 pins	3 pins
Current Drain	14 mA (no load current) + output current		22 mA (24 V) + output current	
"In-Out" Sense Signal	To obtain positive measuring current on O/P terminal, current must flow in direction of arrow			
Mounting	Faston, 3 pins		Push-on (spade), 3 terminals	

WIRING DIAGRAM



Current