

PERFORMANCE DATA

Definition

A current transducer based on the principle of magnetic compensation. It provides electronic measurement of DC, AC, pulsed currents and their combinations with galvanic isolation between the primary (high current) and secondary circuits.

Electrical Data

	CSNL181 - XXX	CSNM191 - XXX
Nominal current (In)	: 300 Arms	: 500 Arms
Measuring range	: 0 to ±600 A	: 0 to ±1000 A
Measuring Resistance (Rm)	: Rm min Rm max	: Rm min Rm max
with ±15V	at ±300 A.t max : 0 ohm 50 ohm	at ±500 A.t max : 0 ohm 50 ohm
	at ±600 A.t max : 0 ohm 10 ohm	at ±1000 A.t max : 0 ohm 5 ohm
Nominal analogue output current	: 150 mA	: 100 mA
Turns Ratio	: 1/2000	: 1/5000
Overall accuracy at +25°C	: ±0.5% on In	: ±0.5% of In
Supply Voltage	: ±12V to 18V (±5%)	: ±12V to ±18V (±5%)
Isolation between primary and secondary	: 7.5 kV rms/50 Hz/1 min	: 6.0 kV rms/50 Hz/1 min

Accuracy - Dynamic Performance

Zero offset current at +25°C	: Max ±0.3 mA	: Max ±0.2 mA
Thermal drift of offset current, between 0°C to +70°C	: Typ ±0.3 mA; Max ±0.5 mA	: Typ ±0.2 mA; Max ±0.3 mA
Linearity	: better than ±0.1%	: better than ±0.1%
Response time	: better than 500nS	: better than 1µs
di/dt accurately followed	: better than 50 A/µs	: better than 50 A/µs
Bandwidth	: DC to 150 KHz	: DC to 100 KHz

General data

Operating temperature	: -40°C to +85°C (-40°F to +185°F)	: -40°C to +85°C (-40°F to +185°F)
Storage temperature	: -40°C to +90°C (-40°F to +194°F)	: -40°C to +90°C (-40°F to +194°F)
Current consumption	: Typ 14mA(±18V) + output current	: Typ 14mA(±18V) + output current
Secondary internal resistance	: 25 ohm (at 70°C)	: 50 ohm (at 70°C)
Sensor Housing	: Insulated plastic case (Bayblend FR1468)	: Insulated plastic case (Bayblend FR1468)
Signal sense	: a positive output current is obtained on terminal O/P when the primary current flows in the direction of the arrow	: a positive output current is obtained on terminal O/P when the primary current flows in the direction of the arrow
EMC	: EN50081-2, EN 50082-2	: EN50081-2, EN 50082-2

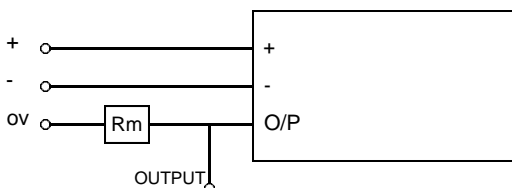
WARNING

PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

Electrical Connection



Termination

- 300A: Supply Voltage ±12V to ±18V
- 500A: Supply Voltage ±12V to ±18V
- O/P Measured output signal

CHARACTERISTICS		
Catalogue Listing	Secondary Connection	Conformal Coating
CSNL181	Amp 3-Way Pin Mate-N-Lok Connector	No
CSNL181-001	Amp Tab, 2.79(.110) Series Faston Terminal	No
CSNL181-002	Amp 3-Way Pin Mate-N-Lok Connector	Humiseal 1R32
CSNL181-003	Amp Tab, 2.79(.110) Series Faston Terminal	Humiseal 1R32
CSNM191	Amp 3-Way Pin Mate-N-Lok Connector	No
CSNM191-001	Amp Tab, 2.79(.110) Series Faston Terminal	No
CSNM191-002	Amp 3-Way Pin Mate-N-Lok Connector	Humiseal 1R32
CSNM191-003	Amp Tab, 2.79(.110) Series Faston Terminal	Humiseal 1R32

MOUNTING DIMENSIONS IN MM AND (INCHES)

