

## Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



**Click this icon to try the new  
Interactive Catalog.**

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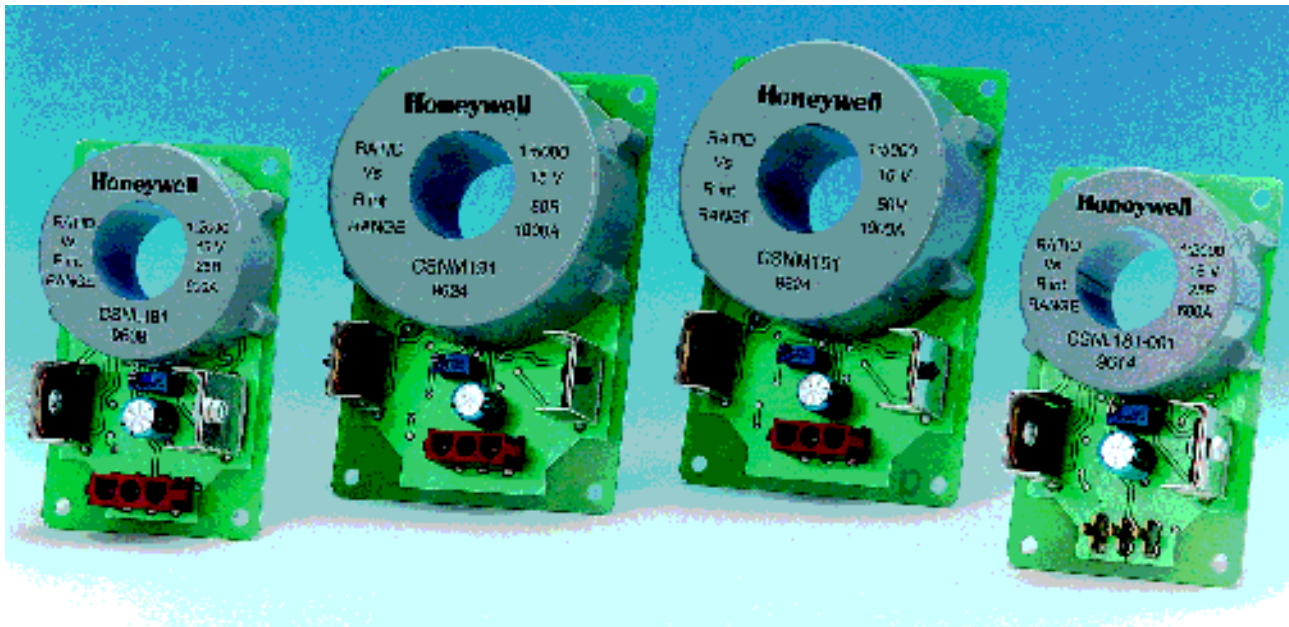
### **Sensing and Control**

Honeywell Inc.

11 West Spring Street

Freeport, Illinois 61032

## CSN Series Hall Effect Current Sensors



### FEATURES

- Current sensing up to 1000A
- Measures DC, AC and impulse currents
- Very fast response
- High overload capability
- Extended temperature range -40°C to +85°C
- Different termination styles
- Optional conformal coating

### BENEFITS

- Increased measuring range in compact package
- No restriction on input current waveform
- Output signal accurately tracks changes in input signal
- Sensor integrity unaffected
- Improved reliability
- Flexibility of connection style
- Provides additional protection to the sensors

### DESCRIPTION

These new industrial current sensors extend Honeywell's closed loop current sensing capability. They offer increased current measuring capability up to 1000A over an extended temperature range of -40°C to +85°C and are available with different terminal options.

The sensors are closed loop devices based on the principle of the hall effect and null balance method. The output from the current sensor is the balancing current which is a perfect image of the primary current reduced by the number of secondary turns at any time. This current can be expressed as a voltage by passing it through a resistor.

### TYPICAL APPLICATIONS

- Variable speed drives
- Overcurrent protection
- Power supplies
- Feedback control systems
- Robotics
- Welding equipment

# 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 ±600 A.t max : 0 ohm 10 ohm	at ±500 A.t max : 0 ohm 50 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

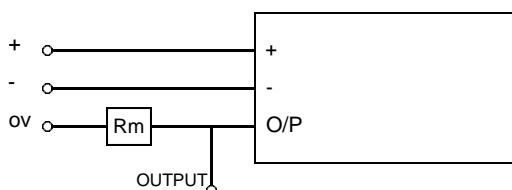
### WARNING

#### 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

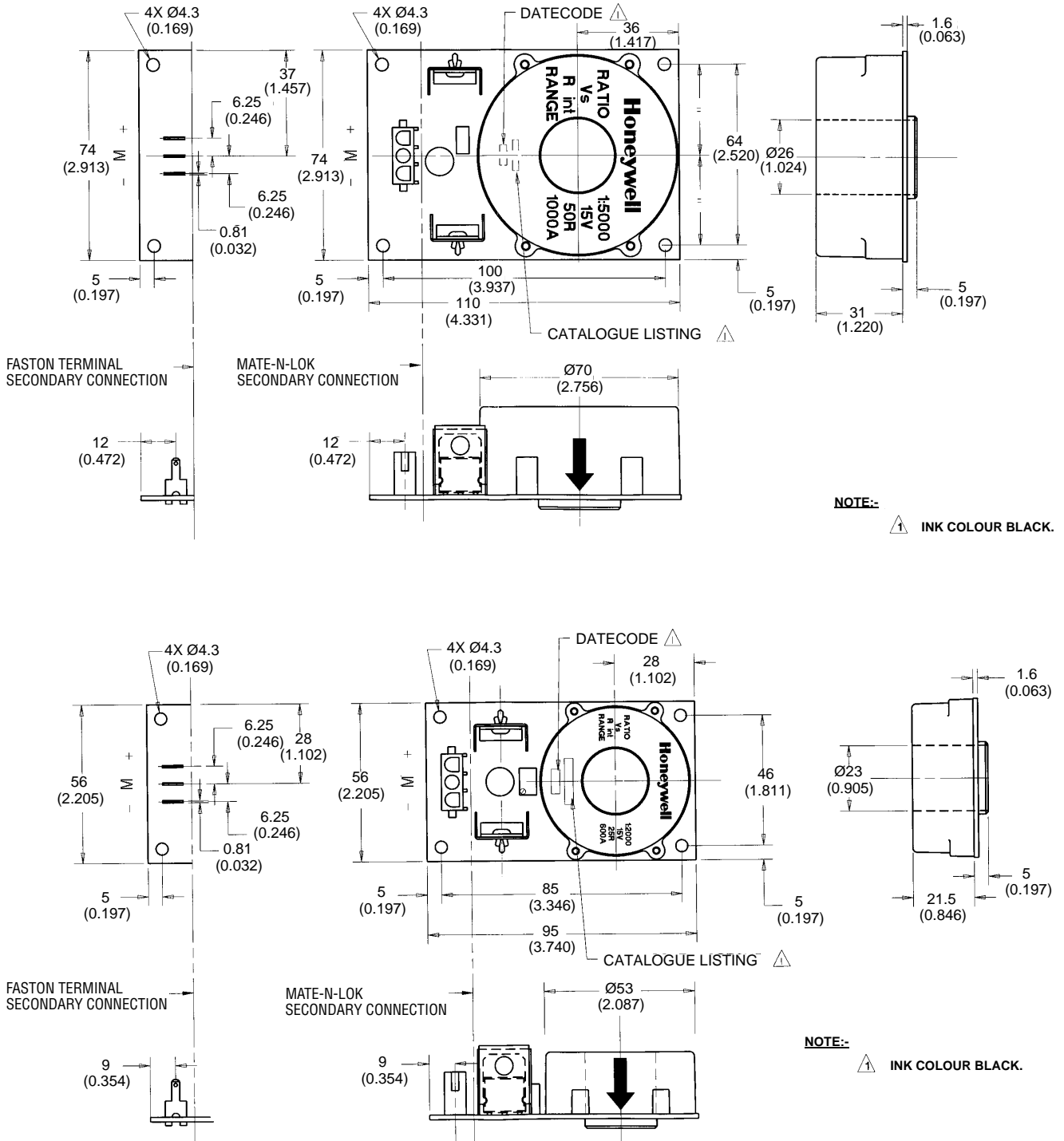


## Termination

- 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)



**WARNING****MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
  - Complete installation, operation and maintenance information is to be referenced for each product.
- Failure to comply with these instructions could result in death or serious injury.**

## Sales and Service

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# Honeywell

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