



*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*

## CSDB1CC

**CSDB Series digital current sensor, 1.7 A to 7.5 A operate current, through-hole design, logic level sinking output, operates on AC or DC current, Spade Terminal pinout**

### Features

- Digital output
- AC or DC current sensing
- Through-hole design
- Output voltage isolation from input
- Minimum energy dissipation
- Maximum current limited only by conductor size
- Accurate, low cost sensing
- Operating temperature range -25 °C to 85 °C

### Typical Applications

- Variable speed drives
- Overcurrent protection
- Ground fault detectors
- Current feedback control systems
- Robotics
- UPS and telecommunication power supplies
- Welding power supplies
- Automotive - Battery management systems
- Wattmeters

### Description

Each Honeywell CS series digital current sensor provides a logic level output that changes from approximately  $V_{cc}$  to 0.4 volts when the sensed current exceeds the operate point. Each digital sensor will operate on ac or dc current, but the output will turn off at every zero crossing when sensing AC current.



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Product Specifications	
<b>Sensor Type</b>	Digital
<b>Sensed Current Type</b>	ac or dc
<b>Package Style</b>	Housing Mount, Spade Connector
<b>Output Voltage</b>	0.30 V
<b>Output Current</b>	100 mA
<b>Output Type</b>	Voltage
<b>Release Current</b>	0.60 NI Minimum
<b>Nominal Operate Current @ 25 °C</b>	3.50 NI
<b>Supply Current</b>	16 mA max.
<b>Supply Voltage</b>	8.0 Vdc to 16.0 Vdc
<b>Response Time</b>	100 µs
<b>Minimum Operate Current @ 25 °C</b>	2.2 NI
<b>Maximum Operate Current @ 25 °C</b>	6.5 NI
<b>Operating Temperature Range</b>	-25 °C to 85 °C [-13 °F to 185 °F]
<b>Storage Temperature Range</b>	-40 °C to 100°C [-40 °F to 212 °F]
<b>Housing Material</b>	PBT Polyester
<b>Mounting</b>	Housing Screws
<b>Pinout Style</b>	Spade terminals (x 3)
<b>Availability</b>	Global
<b>UNSPSC Code</b>	411121
<b>UNSPSC Commodity</b>	411121 Transducers
<b>Series Name</b>	CSDB Series

## Honeywell

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** 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.**

** 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 provided in the instructions supplied with each product.

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

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