



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.



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

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



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

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Honeywell:](#)

[CSDB1CC](#)