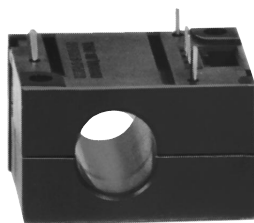


## Solid State Sensors

### Digital Current Sensors

## CS Series



## 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 to 85°C

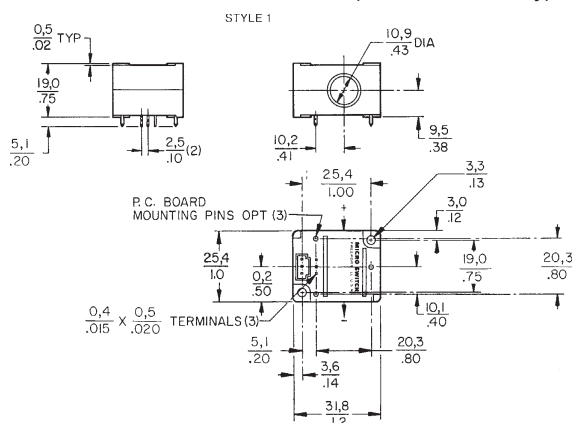
## Digital Current Sensors

Each MICRO SWITCH 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. Housing material: PET polyester.

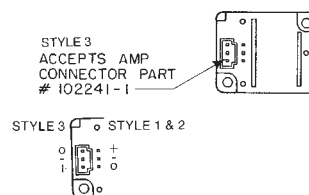
## DIGITAL CURRENT DETECTORS ORDER GUIDE, SINKING OUTPUT

| Catalog Listings | Pinout Style | Operate Current @ 25°C (Amp-Turns) |      |      | Operate Current –25°C to +85°C (Amp-Turns) | Release Current –25°C to +85°C (Amp-Turns Min.) | Supply Volt. (Volts DC) | Output Volt. (Volts) | Output Current (mA) Sinking | Response Time (μ Sec.) |
|------------------|--------------|------------------------------------|------|------|--------------------------------------------|-------------------------------------------------|-------------------------|----------------------|-----------------------------|------------------------|
|                  |              | Min.                               | Nom. | Max. |                                            |                                                 |                         |                      |                             |                        |
| CSDA1BA          | 2            | 0.32                               | 0.50 | 0.88 | .25 to 1.0                                 | 0.08                                            | 6 to 16                 | 0.4                  | 20mA                        | 100                    |
| CSDA1BC          | 2            | 2.2                                | 3.5  | 6.5  | 1.7 to 7.5                                 | 0.60                                            | 6 to 16                 | 0.4                  | 20mA                        | 100                    |
| CSDC1BA          | 2            | 0.32                               | 0.50 | 0.88 | .25 to 1.0                                 | 0.08                                            | 5 ± 0.2                 | 0.4                  | 20mA                        | 100                    |
| CSDC1BC          | 2            | 2.2                                | 3.5  | 6.5  | 1.7 to 7.5                                 | 0.60                                            | 5 ± 0.2                 | 0.4                  | 20mA                        | 100                    |
| CSDA1AA          | 1            | 0.32                               | 0.50 | 0.88 | .25 to 1.0                                 | 0.08                                            | 6 to 16                 | 0.4                  | 20mA                        | 100                    |
| CSDA1AC          | 1            | 2.2                                | 3.5  | 6.5  | 1.7 to 7.5                                 | 0.60                                            | 6 to 16                 | 0.4                  | 20mA                        | 100                    |
| CSDC1AA          | 1            | 0.32                               | 0.50 | 0.88 | .25 to 1.0                                 | 0.08                                            | 5 ± 0.2                 | 0.4                  | 20mA                        | 100                    |
| CSDC1AC          | 1            | 2.2                                | 3.5  | 6.5  | 1.7 to 7.5                                 | 0.60                                            | 5 ± 0.2                 | 0.4                  | 20mA                        | 100                    |
| CSDC1DA          | 3            | 0.32                               | 0.50 | 0.88 | .25 to 1.0                                 | 0.08                                            | 5 ± 0.2                 | 0.4                  | 20mA                        | 100                    |
| CSDA1DA          | 3            | 0.32                               | 0.50 | 0.88 | .25 to 1.0                                 | 0.08                                            | 6 to 16                 | 0.4                  | 20mA                        | 100                    |
| CSDC1DC          | 3            | 2.2                                | 3.5  | 6.5  | 1.7 to 7.5                                 | 0.60                                            | 5 ± 0.2                 | 0.4                  | 20mA                        | 100                    |
| CSDA1DC          | 3            | 2.2                                | 3.5  | 6.5  | 1.7 to 7.5                                 | 0.60                                            | 6 to 16                 | 0.4                  | 20mA                        | 100                    |

**MOUNTING DIMENSIONS** (for reference only)



## PINOUT STYLES



## Current

# Mouser Electronics

Authorized Distributor

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[CSDC1AC](#)