



# Current Monitoring Devices

## CSD and CTD Series



- Split core design and snap-in mounting reduces installation time and costs
- Solid state output with no moving parts for better reliability
- Compact size fits in tight enclosures
- Wide range of selectable amperage ranges to match your application
- Multiple outputs on transducer models, 4-20mA, 0 to 5 VDC, or 0 to 10 VDC
- Snap-on power relay is an easy way to add an external relay

### CSD Series - A big advantage in small load monitoring

The Johnson Controls Current Switch Device (CSD) Series features a variety of digital output current switches. These non-intrusive devices detect current flowing through cable and wire and monitor on/off status or proof of operation. The CSD switches are ideal for very small current loads on motors driving fans, blowers, pumps, heating coils and lighting. Models with command relays monitor current and help facilitate the starting and stopping for motors. A universal solid state output eliminates the need for an external power supply. Completely self-powered, the CSD switches operate off of the current in the cable or line being monitored.

### CTD Series - Know the load

The Johnson Controls Current Transducer Device (CTD) Series are designed for monitoring current in cable or wire. These transducers are a cost-effective solution for monitoring current loads on pumps, driving fans and blowers. The CTD devices are also ideal for sensing the status of heating coils and lighting. They also allow you to track load trending over time. This makes the CTD a key component of predictive maintenance programs.

The voltage output models operate by magnetic induction from current-carrying conductor. As a result, they are completely self-powered. Optional command relays provide externally controlled auxiliary contacts. A cost-effective solution for switching loads that require higher power levels than the current switch contacts ratings. Eliminates the need to mount external relay elsewhere.

## CSD and CTD Series Current Devices

## CSD SERIES SELECTION CHART

Code Number	Core Type	Setpoint Threshold	LED Display	Low Setpoint (Amperes)	Output Relay
CSD-SF0C0-1	Solid	Fixed	No	0.25	No
CSD-SA1E0-1	Solid	Adjustable	Yes	1.00	No
CSD-SA1E1-1	Solid	Adjustable	Yes	1.00	24 V SPST, N.O. 10 A at 260 VAC, 5 A at 30 VDC
CSD-SA1E2-1	Solid	Adjustable	Yes	1.00	12 V SPST, N.O. 10 A at 260 VAC, 5 A at 30 VDC
CSD-CF0A0-1	Clamp/Split	Fixed	No	0.15	No
CSD-CF0J0-1	Clamp/Split	Fixed	No	1.5	No
CSD-CA1G0-1	Clamp/Split	Adjustable	Yes	1.25	No
CSD-CF0J1-1	Clamp/Split	Fixed	No	1.5	24 V SPST, N.O. 10 A at 260 VAC, 5 A at 30 VDC
CSD-CA1G1-1	Clamp/Split	Adjustable	Yes	1.25	24 V SPST, N.O. 10 A at 260 VAC, 5 A at 30 VDC

## CTD SERIES SELECTION CHART

Product Code Number	Core Type	Multi Range	Output Signal	LED Display	Relay
CTD-C1G00-1	Split/Clamped	30/60/120 A	4 to 20 mA <sup>1</sup>	With Optional Relay <sup>2</sup>	Snap-On Accessory
CTD-C2G00-1	Split/Clamped	30/60/120 A	0 to 5 VDC	With Optional Relay <sup>2</sup>	Snap-On Accessory
CTD-C3H00-1	Split/Clamped	20/100/150 A	0 to 10 VDC	With Optional Relay <sup>2</sup>	Snap-On Accessory

1. Requires a 24 VDC/25 mA external power supply.

2. The relay is an accessory.

## ACCESSORIES (ORDER SEPARATELY)

Product Code Number	Product Code Description
CR-01200-01	12 VAC/VDC SPST, N.O. Relay
CR-02400-01	24 VAC/VDC SPST, N.O. Relay