AC CURRENT SENSOR

CS-650 Series

The CS-650 Series current sensors monitor line current for electrical loads such as pumps, conveyors, machine tools, or fans and output a 0-5 Vdc signal to represent the load current. The CS-650 require no external power as they are totally powered by induction from the AC line being monitored. The sensors are typically used to monitor motor operation and can be used to determine motor failure, belt loss, machine feed rates or tool wear.

PRODUCT HIGHLIGHTS

* self-powered and no insertion loss
* 0-5 Vdc Output
* average measurement
* solid-state reliability
* input / output isolation via current transformer
* compact form factor

SPECIFICATIONS

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| MEASUREMENT RANGE | **CS-650-R1:** 0-10/20/50 Amps  **CS-650-R2:** 0-50/100/150 Amps  **CS-650-200:** 0-200 Amps |
| MAXIMUM INPUT CURRENT | **CS-650-R1:** 100 Amps continuous  **CS-650-R2:** 150 Amps continuous  **CS-650-200:** 250 Amps continuous |
| ACCURACY | **CS-650-R1/R2:** ±2% FSO, **CS-650-200:** ±1% FSO (5-100% of range) |
| SIGNAL | 0-5 Vdc |
| SENSOR POWER | Self-powered |
| INSULATION CLASS | 600 Vac, insulated conductors |
| FREQUENCY | 50/60 Hz |
| RESPONSE TIME | 200 mS typical, 0-90% |
| OUTPUT LOAD | 1 MΩ typical |
| LOADING ERROR | Add 0.5% error with 100KΩ |
| OPERATING TEMPERATURE | -15 to 60°C (5 to 140°F) |
| OPERATING HUMIDITY | 5 to 90 %RH non-condensing |
| TERMINAL BLOCK | 14 to 22 AWG |
| DIMENSIONS | 67mm W x 68.9mm H x 24.1mm D (2.65” x 2.7” x 0.95”) |
| SENSOR APERTURE | 20.3mm (0.8”) |
| ENCLOSURE MATERIAL | ABS/PC, UL94-V0 |
| AGENCY APPROVALS | cULus listed |