Application:
The current switch monitors all types of loads such as fans, pumps, heating elements and cables, motors, lamps, and relays.

Features:
- Auto-ranging
- Status LED’s
- Self-powered
- True digital switching
- Field adjustable

Specifications:
- Power Supply: None – self-powered
- Setpoint: fixed at 0.5A for ZSF model, adjustable from 1-200 Amps for ZSA models
- Hysteresis: <2% FS max
- Operating Temp.: -30 to 50°C (-22 to 122°F)
- Frequency range: 10 - 400Hz
- Insulation Class: 600V
- Response Time: < 200 mS
- Operating Humidity: 0 to 95% RH, non-condensing
- Maximum Continuous Input Current: 1A @ 240vac
- Loop power: 12 to 40 Vdc for mAdc output
- Input Current Ranges (field selectable):
  - 0-10/0-20/0-50 Amps
  - 0-500/0-100/0-200 Amps
- Operating Humidity: 0 to 95% RH, non-condensing
- Maximum Continuous Input Current: 10/20/50 Amp ranges – 80/120/200 respectively
  - 50/100/200 Amp ranges – 175/300/400 respectively
- Wiring Connections: Rising clamp screw terminals (14 to 22 AWG)
- Operation:
  - Normally Open output - when the monitored current exceeds the trip value, the switch will make and the red LED will illuminate.
  - Normally Closed output - when the monitored current exceeds the trip value, the switch will break and the red LED will illuminate.

Dimensions:
- Solid core

Model | Core type | Input range | Trip Point* | Output | LED Indicator (s) |
--- | --- | --- | --- | --- | ---
ZJA-NO3 | ✓ | 0-200 AC | A | NO | Red, Green
ZJA-NC3 | ✓ | 0-200 AC | A | NC | Red, Green
ZJA-NO1 | ✓ | 0-200 AC | A | NO | Red, Green
ZJA-NC1 | ✓ | 0-200 AC | A | NC | Red, Green
ZSA-NO3 | ✓ | 0-200 AC | A | NO | Red, Green
ZSA-NC3 | ✓ | 0-200 AC | A | NC | Red, Green
ZSA-NO1 | ✓ | 0-200 AC | A | NO | Red, Green
ZSA-NC1 | ✓ | 0-200 AC | A | NC | Red, Green
ZSF-NO3 | ✓ | 0-200 AC | F | NO | Red, Green

*F = fixed   A = adjustable   * 0.3A@135vac/dc   ◆ 1A @ 240vac

Model | AC Input Range | DC Output | Core Type |
--- | --- | --- | ---
Z50J5 | 10/20/50 | 0-5v | Solid |
Z50S5 | 100/150/200 | 0-10v | Split |
Z50J10 | 50/100/200 | 4-20mA | Split |
Z50S10 | 200/300/400 | 4-20mA | Solid |
Z50J20 | 300/500/700 | 4-20mA | Split |
Z50S20 | 400/600/800 | 4-20mA | Solid |
Z50HHZ20 | 500/700/900 | 4-20mA | Split |
Z200J5 | 10/20/50 | 0-5v | Solid |
Z200S5 | 100/150/200 | 0-10v | Split |
Z200J10 | 50/100/200 | 4-20mA | Split |
Z200S10 | 200/300/400 | 4-20mA | Solid |
Z200J20 | 300/500/700 | 4-20mA | Split |
Z200S20 | 400/600/800 | 4-20mA | Solid |
Z200HHZ20 | 500/700/900 | 4-20mA | Split |

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Current switch details

Analog output details

Application:
Current transducers provide an analog output relative to the current sensed on the input.

Features:
- Three ranges per unit.
- No field adjustment necessary
- True digital switching
- Solid-state circuitry

Specifications:
Loop power: 12 to 40 Vdc for mAdc output
Operating Temp.: -20 to 70°C (-22 to 158°F)
Input Current Ranges (field selectable):
- 0-10/0-20/0-50 Amps
- 0-500/0-100/0-200 Amps
Operating Humidity: 0 to 95% RH, non-condensing
Maximum Continuous Input Current:
- 10/20/50 Amp ranges – 80/120/200 respectively
- 50/100/200 Amp ranges – 175/300/400 respectively
Wiring Connections: Rising clamp screw terminals (14 to 22 AWG)
Frequency range: 10 - 400Hz
Response Time: 250 mS (0-90% step change)
Housing: UL 94V-0
Insulation Class: 600V
Response Time: 250 mS (0-90% step change)
Frequency range: 10 - 400Hz
Response Time: 250 mS (0-90% step change)
Housing: UL 94V-0
Output Signal & Accuracy:
- 4 to 20 mA represents 0 to 100% of current span.
- Better than ±1% FS for all three ranges.
Loading: 1mΩ

Operation:
Average measurement is equivalent to True RMS for pure sine waves.
No loop power is required for the 0-5 or 0-10V analog output versions. Loop power for those having a 4-20mA output can be from 12 to 40vdc.
Use the JHZ models True RMS measurement for choppy sine waves like those produced by variable frequency drives.

Dimensions:
Split core