# Current Sensors

**• Solid and Split Core**  
**• Enclosed**  
**• Track Mount**

### Many Variations

- Miniature size  
- Adjustable or fixed  
- Voltage outputs  
- Self-calibrating  
- Track mount styles  
- Relay and current sensor combinations

## Solid and Split Core AC Sensors

<table>
<thead>
<tr>
<th>Model #</th>
<th>Sensor Output</th>
<th>Range</th>
<th>Type</th>
<th>Threshold</th>
<th>Notes</th>
<th>Spec Page</th>
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<tbody>
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<td>RIBXFF</td>
<td>Solid State Switch</td>
<td>SPST; 30 Vac/dc; .4 Amps Max (Wire Leads)</td>
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## T Style AC Sensors

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## Track Mount AC Sensors

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= UL Listed : UL916 Energy Management, UL864 Fire ; USA & Canada

Made in the USA  

800.888.5538 : www.FunctionalDevices.com
## Enclosed AC Sensors with Relays

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<th>Relays</th>
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<td>SPST</td>
<td>20A</td>
<td>2 HP</td>
<td>20A</td>
<td>1200W</td>
<td>1110VA</td>
<td>No</td>
<td>0-20A</td>
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<td>1110VA</td>
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<td>0-20A</td>
<td>Internal</td>
<td>Analog</td>
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## Track Mount AC Sensors with Relays

<table>
<thead>
<tr>
<th>Model #</th>
<th>AC/DC</th>
<th>Relays</th>
<th>Contacts</th>
<th>Resistive</th>
<th>Motor</th>
<th>Ballast</th>
<th>Tungsten</th>
<th>Pilot Duty</th>
<th>Override Switch</th>
<th>Gold Flash</th>
<th>Sensor Range</th>
<th>Sensor Type</th>
<th>Sensor Threshold</th>
<th>Spec Page</th>
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<tr>
<td>RIBMX24BF</td>
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<td>No</td>
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<td>2 HP</td>
<td>20A</td>
<td>1200W</td>
<td>1110VA</td>
<td>No</td>
<td>.50-20A</td>
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<td>1</td>
<td>SPDT</td>
<td>20A</td>
<td>2 HP</td>
<td>20A</td>
<td>1200W</td>
<td>1110VA</td>
<td>No</td>
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<td>Internal</td>
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<td>RIBMX245BF</td>
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<td>1110VA</td>
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<td>No</td>
<td>.50-20A</td>
<td>Internal</td>
<td>Fixed, 50 Amp</td>
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<td>RIBMX245BA</td>
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<td>SPDT</td>
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<td>20A</td>
<td>1200W</td>
<td>1110VA</td>
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<td>20A</td>
<td>2 HP</td>
<td>20A</td>
<td>1200W</td>
<td>1110VA</td>
<td>1</td>
<td>No</td>
<td>0-20A</td>
<td>Internal</td>
<td>Analog</td>
<td>101</td>
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</tbody>
</table>

= UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

1 = UL Listed: UL916 Energy Management; USA & Canada

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**Current Sensor & Relay Combinations**

- Enclosed
- Track Mount

---

**Enclosed AC Sensors with Relays**

Contact Ratings:
- **Model #**
- **AC/DC**
- **Relays**
- **Contacts**
- **Resistive**
- **Motor**
- **Ballast**
- **Tungsten**
- **Pilot Duty**
- **Override Switch**
- **Gold Flash**
- **Sensor Range**
- **Sensor Type**
- **Sensor Threshold**
- **Spec Page**

**Track Mount AC Sensors with Relays**

Contact Ratings:
- **Model #**
- **AC/DC**
- **Relays**
- **Contacts**
- **Resistive**
- **Motor**
- **Ballast**
- **Tungsten**
- **Pilot Duty**
- **Override Switch**
- **Gold Flash**
- **Sensor Range**
- **Sensor Type**
- **Sensor Threshold**
- **Spec Page**

---

**Current Sensors**

- UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada
- = UL Listed: UL916 Energy Management; USA & Canada

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**Functional Devices, Inc.**

RIBXK Series
Enclosed Self-Powered Solid Core AC Sensors

Specifications
- Operating Temperature: -30 to 140°F
- Humidity Range: 5% to 95% (noncondensing)
- Max Sense Voltage: 600 Vac
- Mounting/Installation: Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.
- Sensor Contact Output: Current below threshold: Open; Current above threshold: Closed

RIBXK Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type</th>
<th>Threshold</th>
<th>Sensor Contact Type</th>
<th>Switching Voltage Range</th>
<th>Maximum Switching Current</th>
<th>Sensor Contact Termination</th>
<th>LED 1</th>
<th>LED 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBXKF</td>
<td>.25-150 Amp</td>
<td>Solid Core</td>
<td>Fixed, .25</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>.4 Amps Max</td>
<td>Wht/Yel 16˝ 18 AWG Wire Leads</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIBXTF</td>
<td>.25-150 Amp</td>
<td>Solid Core</td>
<td>Fixed, .25</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>.4 Amps Max</td>
<td>Terminal Strip, Accepts #14-22 AWG Wire</td>
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</tr>
<tr>
<td>RIBXXA</td>
<td>.50-150 Amp</td>
<td>Solid Core</td>
<td>Adjustable</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>.8 Amps Max</td>
<td>Wht/Yel 16˝ 18 AWG Wire Leads</td>
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<tr>
<td>RIBXXTA</td>
<td>.50-150 Amp</td>
<td>Solid Core</td>
<td>Adjustable</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>.8 Amps Max</td>
<td>Terminal Strip, Accepts #14-22 AWG Wire</td>
<td></td>
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</tr>
</tbody>
</table>

RIBXGH Series
Enclosed Self-Powered Split Core 120 Vac Switching AC Current Sensors

Specifications
- Operating Temperature: -30 to 140°F
- Humidity Range: 5% to 95% (noncondensing)
- Temperature Derating: 1 Amp up to 50°C, 0.5 Amp up to 60°C
- Max Sense Voltage: 600 Vac
- Sensor Contact Status: Current below threshold: Open; Current above threshold: Closed
- Approvals: UL Listed, UL916, C-UL, CE, RoHS
- Mounting/Installation: Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.
- Sensor Contact Output: Current below threshold: Open; Current above threshold: Closed

RIBXGH Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type</th>
<th>Threshold</th>
<th>Sensor Contact Type</th>
<th>Switching Voltage Range</th>
<th>Maximum Switching Current</th>
<th>Sensor Contact Termination</th>
<th>LED 1</th>
<th>LED 2</th>
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<tbody>
<tr>
<td>RIBXGHF</td>
<td>.50-150 Amp</td>
<td>Split Core</td>
<td>Fixed, .50</td>
<td>Solid State Switch SPST</td>
<td>120 Vac Only</td>
<td>1 Amp Max</td>
<td>Wht/Blk 16˝ 18 AWG Wire Leads</td>
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<tr>
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<td>.50-150 Amp</td>
<td>Split Core</td>
<td>Fixed, .50</td>
<td>Solid State Switch SPST</td>
<td>120 Vac Only</td>
<td>1 Amp Max</td>
<td>Terminal Strip, Accepts #14-22 AWG Wire</td>
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<tr>
<td>RIBXGHA</td>
<td>.75-150 Amp</td>
<td>Split Core</td>
<td>Adjustable</td>
<td>Solid State Switch SPST</td>
<td>120 Vac Only</td>
<td>1 Amp Max</td>
<td>Wht/Blk 16˝ 18 AWG Wire Leads</td>
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<td>RIBXGHTA</td>
<td>.75-150 Amp</td>
<td>Split Core</td>
<td>Adjustable</td>
<td>Solid State Switch SPST</td>
<td>120 Vac Only</td>
<td>1 Amp Max</td>
<td>Terminal Strip, Accepts #14-22 AWG Wire</td>
<td></td>
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</tbody>
</table>
RIBXG Series
Enclosed Self-Powered Split Core AC Sensors

Specifications

- Operating Temperature: -30 to 140°F
- Humidity Range: 5 to 95% (noncondensing)
- Max Sense Voltage: 600 Vac
- Approvals: UL Listed, UL916, UL864, C-UL, California State Fire Marshal, CE, RoHS
- Mounting/Installation: Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.
- Sensor Contact Status: Current below threshold: Open
  Current above threshold: Closed

Self-Calibrating AC Sensors (Models with -SCAL Suffix)

The SCAL unit begins the 30 second self-calibration process the first time current is applied in the operating range. The threshold is then set. Subsequent calibrations may be performed by moving SW1 to the position opposite of its current position with or without current applied (hands can be safely away from live voltage). Once current begins flowing, or if it already is, the calibration process will begin. At the end of the 30 seconds, amperage will be read and set as the threshold. SW2 in the ON position provides a 15% (+/-3%) differential. In the OFF position, it provides a 25% (+/-3%) differential. SW2 can be selected at anytime and does not affect the threshold setting. Current in-range closes the sensor contact. Current above or below range opens the sensor contact.

Example: With a current of 10 amps set as the threshold and a 15% differential, sensor contact will be closed between 8.5 amps and 11.5 amps and open outside of this range. A small amount of hysteresis is provided to prevent dithering near the differential limits.

RIBXG Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type</th>
<th>Threshold Type</th>
<th>Sensor Contact Type</th>
<th>Switching Voltage Range</th>
<th>Maximum Switching Current</th>
<th>Sensor Contact Termination</th>
<th>LED 1</th>
<th>LED 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBXGF</td>
<td>.35-150 Amp</td>
<td>Split Core</td>
<td>Fixed, .35 Amp</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>4 Amps Max</td>
<td>Wht/Yel 16' 18 AWG Wire Leads</td>
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<tr>
<td>RIBXGFL*</td>
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<td>Split Core</td>
<td>Fixed, .75 Amp</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>4 Amps Max</td>
<td>Over Trip Point</td>
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<td>RIBXGTF</td>
<td>.35-150 Amp</td>
<td>Split Core</td>
<td>Fixed, .35 Amp</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>4 Amps Max</td>
<td>Terminal Strips, Accepts #14-22 AWG Wire</td>
<td></td>
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<td>Split Core</td>
<td>Fixed, .75 Amp</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>4 Amps Max</td>
<td>Over Trip Point</td>
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<td>RIBXGA</td>
<td>.75-150 Amp</td>
<td>Split Core</td>
<td>Adjustable</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>4 Amps Max</td>
<td>Over Trip Point Under Trip Point</td>
<td></td>
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<tr>
<td>RIBXGTA</td>
<td>.75-150 Amp</td>
<td>Split Core</td>
<td>Adjustable</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>4 Amps Max</td>
<td>Terminal Strips, Accepts #14-22 AWG Wire</td>
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<td>Split Core</td>
<td>Self-Cal.</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>4 Amps Max</td>
<td>Over Trip Point Under Trip Point</td>
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<tr>
<td>RIBXGTA-SCAL</td>
<td>3-150 Amp</td>
<td>Split Core</td>
<td>Self-Cal.</td>
<td>Solid State Switch SPST</td>
<td>30 Vac/dc</td>
<td>4 Amps Max</td>
<td>See -SCAL Table</td>
<td></td>
<td></td>
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</tbody>
</table>

* = Not approved by California State Fire Marshal

AC Current Sensors, Split Core

- UL Listed
- Made in USA
- Meets "Buy American" of ARRA 2009

RIBXKTV Series
Enclosed Self-Powered Solid Core Current to DC Transducers

Specifications
Operating Temperature: -30 to 140° F
Humidity Range: 5 to 95% (noncondensing)
Max Sense Voltage: 600 Vac
Accuracy: 96.8% Full Scale
Loading: RIBXKTVS-10, 1% Error @ 180 kΩ
RIBXKTVS-20, 1% Error @ 90 kΩ
RIBXKTVS-50, 1% Error @ 40 kΩ
RIBXKTVS-100, 1% Error @ 15 kΩ

Approvals: UL Listed, UL916, C-UL, CE, RoHS

Mounting/Installation: Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.

Sensor Type: Solid core with voltage output

RIBXKTV Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type</th>
<th>Threshold</th>
<th>Sensor Contact Type</th>
<th>Switching Voltage Range</th>
<th>Maximum Switching Current</th>
<th>Sensor Contact Termination</th>
<th>LED 1</th>
<th>LED 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBXKTVS-10</td>
<td>0-10 Amp</td>
<td>Solid Core</td>
<td>Fixed</td>
<td>Solid State Switch</td>
<td>120-277 Vac</td>
<td>1 Amp AC</td>
<td>Wht/Blk 16˝ 18 AWG Wire Leads</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIBXKTVS-20</td>
<td>0-20 Amp</td>
<td>Solid Core</td>
<td>Fixed</td>
<td>Solid State Switch</td>
<td>120-277 Vac</td>
<td>1 Amp AC</td>
<td>Terminal Strip, Accepts #14-22 AWG Wire</td>
<td></td>
<td></td>
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<tr>
<td>RIBXKTVS-50</td>
<td>0-50 Amp</td>
<td>Solid Core</td>
<td>Adjustable</td>
<td>Solid State Switch</td>
<td>120-277 Vac</td>
<td>1 Amp AC</td>
<td>Terminal Strip, Accepts #14-22 AWG Wire</td>
<td></td>
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</tr>
<tr>
<td>RIBXKTVS-100</td>
<td>0-100 Amp</td>
<td>Solid Core</td>
<td>Adjustable</td>
<td>Solid State Switch</td>
<td>120-277 Vac</td>
<td>1 Amp AC</td>
<td>Over Threshold Under Threshold</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RIBXG21 Series
Enclosed Self-Powered Split Core 120-277 Vac Switching AC Sensors

Specifications
Operating Temperature: -30 to 140° F
Humidity Range: 5 to 95% (noncondensing)
Max Sense Voltage: 600 Vac

Approvals: UL Listed, UL916, C-UL, CE, RoHS

Mounting/Installation: Unit can be secured using the supplied Mounting Tab, the adjustable Wire Clamp, or both.

Sensor Contact Status: Monitored current below threshold: Open
Monitored current above threshold: Closed

Notes:
- Use Sensor Contact to switch 120-277 Vac loads only.
- For testing purposes, Sensor Contact will measure approximately 250 Ω when closed and > 10 MΩ when open.
- The Sensor Contact is a Solid State Contact.

RIBXG21 Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type</th>
<th>Threshold</th>
<th>Sensor Contact Type</th>
<th>Switching Voltage Range</th>
<th>Maximum Switching Current</th>
<th>Sensor Contact Termination</th>
<th>LED 1</th>
<th>LED 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBXG21F</td>
<td>50-150 Amps AC</td>
<td>Split Core</td>
<td>Fixed</td>
<td>Solid State Switch</td>
<td>120-277 Vac</td>
<td>1 Amp AC</td>
<td>Wht/Blk 16˝ 18 AWG Wire Leads</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIBXG21TF</td>
<td>50-150 Amps AC</td>
<td>Split Core</td>
<td>Fixed</td>
<td>Solid State Switch</td>
<td>120-277 Vac</td>
<td>1 Amp AC</td>
<td>Terminal Strip, Accepts #14-22 AWG Wire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIBXG21A</td>
<td>75-150 Amps AC</td>
<td>Split Core</td>
<td>Adjustable</td>
<td>Solid State Switch</td>
<td>120-277 Vac</td>
<td>1 Amp AC</td>
<td>Over Threshold Under Threshold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIBXG21TA</td>
<td>75-150 Amps AC</td>
<td>Split Core</td>
<td>Adjustable</td>
<td>Solid State Switch</td>
<td>120-277 Vac</td>
<td>1 Amp AC</td>
<td>Over Threshold Under Threshold</td>
<td></td>
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</tr>
</tbody>
</table>

AC Current Sensors 120-277 Vac – Switching

AC Transducers, 0-5 Vdc Out, Solid Core

Specifications
Operating Temperature: -30 to 140° F
Humidity Range: 5 to 95% (noncondensing)
Max Sense Voltage: 600 Vac

Approvals: UL Listed, UL916, C-UL, CE, RoHS

Mounting/Installation: Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.

Sensor Type: Solid core with voltage output

RIBXKTV Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Sensor Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBXKTVS-10</td>
<td>0-10 Amp</td>
<td>0-5 Vdc (Terminal Strip, Accepts #14-22 AWG Wire)</td>
</tr>
<tr>
<td>RIBXKTVS-20</td>
<td>0-20 Amp</td>
<td>0-5 Vdc (Terminal Strip, Accepts #14-22 AWG Wire)</td>
</tr>
<tr>
<td>RIBXKTVS-50</td>
<td>0-50 Amp</td>
<td>0-5 Vdc (Terminal Strip, Accepts #14-22 AWG Wire)</td>
</tr>
<tr>
<td>RIBXKTVS-100</td>
<td>0-100 Amp</td>
<td>0-5 Vdc (Terminal Strip, Accepts #14-22 AWG Wire)</td>
</tr>
</tbody>
</table>
### RIBXK420 Series

**Enclosed Self-Powered Split Core 20, 50, and 100 Amp Current Transducers with Loop Powered 4-20 mA Output (Pre-Wired)**

**Specifications**

- **Operating Temperature:** -30 to 140° F
- **Humidity Range:** 5 to 95% (noncondensing)
- **Wires:** Red (positive) & Black (negative), 16”, 18 AWG, 600V Rated
- **Sensor Type:** Internal, with 4-20 mA Transmitter Output
- **Sensor Range:** 0-20 Amps, 0-50 Amps, or 0-100 Amps
- **Accuracy:** 96.4% FS
- **Linearity:** 99% FS (25%-100% Span)
- **Max Output Current:** 30 mA
- **Max Sense Voltage:** 600 Vac
- **Approvals:** UL Listed, UL916, UL864, California State Fire Marshal, CE, RoHS

**Mounting/Installation:** Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.

#### RIBXKTV Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Sensor Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBXK420-20</td>
<td>0-20 Amps</td>
<td>Loop Powered 4-20 mA Transmitter (Pre-Wired)</td>
</tr>
<tr>
<td>RIBXK420-50</td>
<td>0-50 Amps</td>
<td>Loop Powered 4-20 mA Transmitter (Pre-Wired)</td>
</tr>
<tr>
<td>RIBXK420-100</td>
<td>0-100 Amps</td>
<td>Loop Powered 4-20 mA Transmitter (Pre-Wired)</td>
</tr>
</tbody>
</table>

### RIBXGT10

**Enclosed Self-Powered Split Core Multi-Range (0-20A, 50A, or 100A) AC Transducer with 0-10Vdc Terminal Output**

**Specifications**

- **Operating Temperature:** -30 to 140° F
- **Humidity Range:** 5 to 95% (noncondensing)
- **Accuracy:** 96.8% Full Scale
- **Max Sense Voltage:** 600 Vac
- **Approvals:** UL Listed, UL916, UL864, California State Fire Marshal, C-UL, CE, RoHS

**Mounting/Installation:** Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.

#### DIP Switch

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>Sensing Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>0-20 Amp</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>0-50 Amp</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>0-100 Amp</td>
</tr>
</tbody>
</table>
RIBXG420 Series
Enclosed Self-Powered Split Core 20, 50, and 100 Amp Current Transducers with Loop Powered 4-20 mA Output (Pre-Wired)

Specifications
- Operating Temperature: -30 to 140° F
- Humidity Range: 5 to 95% (noncondensing)
- Wires: Red (positive) & Black (negative), 16”, 18 AWG, 600V Rated
- Sensor Type: Internal, with 4-20 mA Transmitter Output
- Sensor Range: 0-20 Amps, 0-50 Amps, or 0-100 Amps (See Selection Guide Below)
- Accuracy: Refer to chart below.
- Linearity: 99% FS (20%-100% Span)
- Max Output Current: 30 mA
- Max Sense Voltage: 600 Vac
- Approvals: UL Listed, UL864, UL508, C-UL, California State Fire Marshal, CE, RoHS
- Mounting/Installation: Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.

RIBXG420 Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Sensor Output</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBXG420-20</td>
<td>0-20 Amps</td>
<td>Loop Powered 4-20 mA Transmitter (Pre-Wired)</td>
<td>99% - 100%</td>
</tr>
<tr>
<td>RIBXG420-50</td>
<td>0-50 Amps</td>
<td>Loop Powered 4-20 mA Transmitter (Pre-Wired)</td>
<td>99% - 100%</td>
</tr>
<tr>
<td>RIBXG420-100</td>
<td>0-100 Amps</td>
<td>Loop Powered 4-20 mA Transmitter (Pre-Wired)</td>
<td>99% - 100%</td>
</tr>
</tbody>
</table>

Output Load Resistance
- Supply Voltage
  +
- Red +
- Black -

- Accuracy charts are available on data sheet on website.
  Or scan QR code with your smart phone.
RIBXF
Enclosed Self-Powered Internal Fixed
0.50-30 Amp AC Sensor

Operating Temperature: -30 to 140˚ F
Humidity Range: 5 to 95% (noncondensing)
Dimensions: 4.00” x 4.00” x 1.80” with .50” NPT Nipple
Wire Length: 16”, 600V Rated
Approvals: UL Listed, UL916, UL864, C-UL
California State Fire Marshal, CE, RoHS
Housing Rating: UL Accepted for Use in Plenum, NEMA 1
Sensor Type: Internal, with contact status
Sensor Threshold: Fixed, .5 Amps (RIBXF)
Sensor Range: .50-30 Amps
Max Sense Voltage: 600 Vac
Sensor Contact Status: Current below threshold: Open / LED OFF
Current above threshold: Closed / LED ON

Specifications

Sensor Output:
• Voltage output is proportional to current sensor range.
• Min. Input Impedance = 30K ohms
• Accuracy +/- 1% full scale
• Ripple < 10m Vac

Sensor Feedback
• Not Used

RIBXV
Enclosed Self-Powered Internal 0-30 Amp to 0-5 Vdc / 0-10 Vdc AC Transducer

Specifications

Operating Temperature: -30 to 140˚ F
Humidity Range: 5 to 95% (noncondensing)
Dimensions: 4.00” x 4.00” x 1.80” with .50” NPT Nipple
Wire Length: 16”, 600V Rated
Approvals: UL Listed, UL916, UL864, C-UL
California State Fire Marshal, CE, RoHS
Housing Rating: UL Accepted for Use in Plenum, NEMA 1
Sensor Type: Internal, with voltage output
Sensor Range: 0-30 Amps
Max Sense Voltage: 600 Vac
Sensor Contact Status: Current below threshold: Open / LED OFF
Current above threshold: Closed / LED ON

RIBXRA
Enclosed Self-Powered Solid Ring Remote Adjustable 1,25-150 Amp AC Sensor

Specifications

Operating Temperature: -30 to 140˚ F
Humidity Range: 5 to 95% (noncondensing)
Dimensions: 4.00” x 4.00” x 1.80” with .50” NPT Nipple
Remote Dimensions: 1.863” x 1.460”, .500” Inside Diameter
Wire Length: 16”, 600V Rated
Approvals: UL Listed, UL916, UL864, C-UL, California State Fire Marshal, CE, RoHS
Housing Rating: UL Accepted for Use in Plenum, NEMA 1
Sensor Type: External, with contact status
Sensor Threshold: Fixed, 1.25 Amps (RIBXRF)
Adjustable, 1.25-150 Amps (RIBXRA)
Sensor Range: 1.25-150 Amps
Max Sense Voltage: 600 Vac
Sensor Contact Status: Current below threshold: Open / LED OFF
Current above threshold: Closed / LED ON

RIBXRF
Enclosed Self-Powered Solid Ring Remote Fixed 1.25-150 Amp AC Sensor

Specifications

Operating Temperature: -30 to 140˚ F
Humidity Range: 5 to 95% (noncondensing)
Dimensions: 4.00” x 4.00” x 1.80” with .50” NPT Nipple
Remote Dimensions: 1.863” x 1.460”, .500” Inside Diameter
Wire Length: 16”, 600V Rated
Approvals: UL Listed, UL916, UL864, C-UL, California State Fire Marshal, CE, RoHS
Housing Rating: UL Accepted for Use in Plenum, NEMA 1
Sensor Type: External, with contact status
Sensor Threshold: Fixed, 1.25 Amps (RIBXRF)
Adjustable, 1.25-150 Amps (RIBXRA)
Sensor Range: 1.25-150 Amps
Max Sense Voltage: 600 Vac
Sensor Contact Status: Current below threshold: Open / LED OFF
Current above threshold: Closed / LED ON

Sensor Contact:
• Solid State Contact
• 30 Vac/dc, .4 Amp Max.
• When sensor contact is off (open), leakage <30 uA @ 30Vac/dc
• When sensor contact is on (closed), voltage drop < .3 Vac/dc @ .1 Amp
< 1.6 Vac/dc @ .4 Amp

Sensor Feedback
• Not Used

AC Current Sensors, Internal Sensor

Specifications

AC Current Sensors, Remote Sensor

Specifications

AC Transducer, DC Voltage Out

Specifications

### Specifications

**RIBMXF**  
4.00˝ Track Mount Internal **Fixed**  
.50-20 Amp AC Sensor, Self-Powered

- **Operating Temperature:** -30 to 140°F  
- **Humidity Range:** 5 to 95% (noncondensing)  
- **Dimensions:** 4.00’’ x 4.00’’ x 1.250’’  
- **Approvals:** UL Listed, UL916, UL864, C-UL

**RIBMXA**  
4.00˝ Track Mount Internal **Adjustable**  
.50-20 Amp AC Sensor, Self-Powered

- **Operating Temperature:** -30 to 140°F  
- **Humidity Range:** 5 to 95% (noncondensing)  
- **Dimensions:** 4.00’’ x 4.00’’ x 1.250’’  
- **Approvals:** UL Listed, UL916, UL864, C-UL

**RIBMXV**  
4.00˝ Track Mount Internal 0-20 Amp to 0-5 Vdc / 0-10 Vdc Self-Powered AC Transducer

- **Operating Temperature:** -30 to 140°F  
- **Humidity Range:** 5 to 95% (noncondensing)  
- **Dimensions:** 4.00’’ x 4.00’’ x 1.250’’  
- **Approvals:** UL Listed, UL916, UL864, C-UL

---

**AC Current Sensors, Remote Sensor**

**RIBXJF**  
Enclosed Self-Powered Split Ring Remote  
**Fixed** 3-150 Amp AC Sensor

**RIBXJA**  
Enclosed Self-Powered Split Ring Remote  
**Adjustable** 3-150 Amp AC Sensor

**Specifications**

- **Sensor Type:** External, with contact status  
- **Sensor Threshold:** Fixed, 3 Amps (RIBXJF).  
- **Sensor Range:** 3-150 Amps (RIBXJA)  
- **Max Sense Voltage:** 600 Vac  
- **Sensor Contact Status:**  
  - Current below threshold: Open / LED OFF  
  - Current above threshold: Closed / LED ON  

---

**AC Current Sensors, Internal Sensor**

**RIBMXF**

- **Operating Temperature:** -30 to 140°F  
- **Humidity Range:** 5 to 95% (noncondensing)  
- **Dimensions:** 4.00’’ x 4.00’’ x 1.250’’  
- **Approvals:** UL Listed, UL916, UL864, C-UL

**RIBMXA**

- **Sensor Contact:**  
  - Solid State Contact  
  - 30 Vac/dc, .4 Amp Max.  
  - When sensor contact is off (open), leakage <30 uA @ 30Vac/dc  
  - Current above threshold: Closed / LED ON  

---

**AC Transducer, DC Voltage Out**

**RIBMXV**

- **Sensor Contact:**  
  - Solid State Contact  
  - 30 Vac/dc, .4 Amp Max.  
  - When sensor contact is off (open), leakage <30 uA @ 30Vac/dc  
  - When sensor contact is on (closed), voltage drop < .3 Vac/dc @ 1 Amp  
  - < 1.6 Vac/dc @ .4 Amp
**Specifications**

**Operating Temperature:** -30 to 140°F

**Humidity Range:** 5 to 95% (noncondensing)

**Track Mount:** 4.00”, See MT4 Series on page 142

**Wire Length:** 16’, 600V Rated

**Approvals:** UL Listed, UL916, C-UL, California State Fire Marshal, CE, RoHS

**Dimensions:** 1.70” x 4.00” x 1.250”

**Sensor Type:** External, with contact status

**Inside Diameter:** .75”

**Outside Diameter:** 2.28”

**Sensor Threshold:** Fixed, 3 Amps (RIBMXRF)

**Sensor Range:** 3-150 Amps

**Max Sense Voltage:** 600 Vac

**Sensor Contact Status:**
- Current below threshold: Open / LED OFF
- Current above threshold: Closed / LED ON

**Sensor Feedback Output:** Solid State Contact 30 Vac/dc, 100 mA

**Sensor Contact:**
- Solid State Contact
- 30 Vac/dc, 4 Amp Max.
- When sensor contact is off (open), leakage
  - <30 uA @ 30Vac/dc
- When sensor contact is on (closed), voltage drop
  - <.3 Vac/dc @ .1 Amp
  - <1.6 Vac/dc @ .4 Amp

**Sensor Contact Status:**
- AXR: Not Used
- CT: Wire Being Monitored
- AXR: Sensor Feedback
- CT: Current Sensor Status

**Variations:**
- **RIBMXRF-RD:** Red housing
- **RIBMXRF-N4:** NEMA 4X housing, UL508 only

---

**Current Sensors**

**Specifications**

**Contact Ratings:**
- 20 Amp Resistive @ 277 Vac
- 20 Amp Ballast @ 277 Vac (N/O)
- Not rated for Electronic Ballast
- 10 Amp Tungsten @ 120 Vac (N/O)
- 1,110 VA Pilot Duty @ 277 Vac
- 770 VA Pilot Duty @ 120 Vac

**Coil Current:**
- 20 HP @ 277 Vac
- 1 HP @ 120 Vac

**Coil Voltage Input:**
- 24 Vac; 50-60 Hz
- Drop Out = 3 Vac
- Pull In = 18 Vac

**Approvals:**
- UL Listed, UL916, CE, RoHS
- California State Fire Marshal

**Dimensions:**
- 1.700” x 4.000” x 1.250”

**Relay & AC Current Sensor Combo**

**Specifications**

**Expected Relay Life:** 10 million cycles minimum mechanical

**Operating Temperature:** -30 to 140°F

**Humidity Range:** 5 to 95% (noncondensing)

**Operate Time:** 20ms

**Current Sensor Status:**
- Pink LED On = Current Over Trip Point
- Red LED On = Activated

**Dimensions:**
- 1.70” x 2.80” x 1.50” with .50” NPT nipple

**Wire Length:** 16’, 600V Rated

**Approvals:** UL Listed, UL916, C-UL, CE, RoHS

**Housing Rating:** UL Accepted for Use in Plenum, NEMA 1

**Gold Flash:** No

**Sensor Type:** Internal, with contact status

**Sensor Threshold:** Fixed, .25 Amp

**Sensor Range:** 25-20 Amps

**Sensor Feedback Output:** Solid State Contact 30 Vac/dc, 100 mA

**Sensor Contact:**
- When current sensor status is off (open), leakage
  - <30 uA @ 30Vac/dc
- When current sensor status is on (closed), voltage drop
  - <.3 Vac/dc @ .1 Amp
  - <1.6 Vac/dc @ .4 Amp

**Variations:**
- **RIBMXRA-RD:** Red housing
- **RIBMXRA-N4:** NEMA 4X housing, UL508 only

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**AC Current Sensors**

**Specifications**

**Contact Ratings:**
- 20 Amp Resistive @ 277 Vac
- 20 Amp Ballast @ 277 Vac (N/O)
- Not rated for Electronic Ballast
- 10 Amp Tungsten @ 120 Vac (N/O)
- 1,110 VA Pilot Duty @ 277 Vac
- 770 VA Pilot Duty @ 120 Vac

**Coil Current:**
- 20 HP @ 277 Vac
- 1 HP @ 120 Vac

**Coil Voltage Input:**
- 24 Vac; 50-60 Hz
- Drop Out = 3 Vac
- Pull In = 18 Vac

**Approvals:**
- UL Listed, UL916, CE, RoHS
- California State Fire Marshal

**Dimensions:**
- 1.700” x 4.000” x 1.250”

**Relay & AC Current Sensor Combo**

**Specifications**

**Expected Relay Life:** 10 million cycles minimum mechanical

**Operating Temperature:** -30 to 140°F

**Humidity Range:** 5 to 95% (noncondensing)

**Operate Time:** 20ms

**Current Sensor Status:**
- Pink LED On = Current Over Trip Point
- Red LED On = Activated

**Dimensions:**
- 1.70” x 2.80” x 1.50” with .50” NPT nipple

**Wire Length:** 16’, 600V Rated

**Approvals:** UL Listed, UL916, C-UL, CE, RoHS

**Housing Rating:** UL Accepted for Use in Plenum, NEMA 1

**Gold Flash:** No

**Sensor Type:** Internal, with contact status

**Sensor Threshold:** Fixed, .25 Amp

**Sensor Range:** 25-20 Amps

**Sensor Feedback Output:** Solid State Contact 30 Vac/dc, 100 mA

**Sensor Contact:**
- When current sensor status is off (open), leakage
  - <30 uA @ 30Vac/dc
- When current sensor status is on (closed), voltage drop
  - <.3 Vac/dc @ .1 Amp
  - <1.6 Vac/dc @ .4 Amp

**Variations:**
- **RIBMXRA-RD:** Red housing
- **RIBMXRA-N4:** NEMA 4X housing, UL508 only

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**Contact Ratings:**
- 20 Amp Resistive @ 277 Vac
- 20 Amp Ballast @ 277 Vac (N/O)
- Not rated for Electronic Ballast
- 10 Amp Tungsten @ 120 Vac (N/O)
- 1,110 VA Pilot Duty @ 277 Vac
- 770 VA Pilot Duty @ 120 Vac

**Coil Current:**
- 20 HP @ 277 Vac
- 1 HP @ 120 Vac

**Coil Voltage Input:**
- 24 Vac; 50-60 Hz
- Drop Out = 3 Vac
- Pull In = 18 Vac

**Approvals:**
- UL Listed, UL916, CE, RoHS
- California State Fire Marshal

**Dimensions:**
- 1.700” x 4.000” x 1.250”

**Relay & AC Current Sensor Combo**

**Specifications**

**Expected Relay Life:** 10 million cycles minimum mechanical

**Operating Temperature:** -30 to 140°F

**Humidity Range:** 5 to 95% (noncondensing)

**Operate Time:** 20ms

**Current Sensor Status:**
- Pink LED On = Current Over Trip Point
- Red LED On = Activated

**Dimensions:**
- 1.70” x 2.80” x 1.50” with .50” NPT nipple

**Wire Length:** 16’, 600V Rated

**Approvals:** UL Listed, UL916, C-UL, CE, RoHS

**Housing Rating:** UL Accepted for Use in Plenum, NEMA 1

**Gold Flash:** No

**Sensor Type:** Internal, with contact status

**Sensor Threshold:** Fixed, .25 Amp

**Sensor Range:** 25-20 Amps

**Sensor Feedback Output:** Solid State Contact 30 Vac/dc, 100 mA

**Sensor Contact:**
- When current sensor status is off (open), leakage
  - <30 uA @ 30Vac/dc
- When current sensor status is on (closed), voltage drop
  - <.3 Vac/dc @ .1 Amp
  - <1.6 Vac/dc @ .4 Amp

**Variations:**
- **RIBMXRA-RD:** Red housing
- **RIBMXRA-N4:** NEMA 4X housing, UL508 only
# Specifications

Relays & Contact Type: One (1) SPDT Continuous Duty Coil  
Expected Relay Life: 10 million cycles minimum mechanical  
Operating Temperature: -30 to 140°F  
Humidity Range: 5 to 95% (noncondensing)  
Operating Time: 20ms  
Relay Status: Red LED On = Activated  
Dimensions: 4.00" x 4.00" x 1.80" with .50" NPT Nipple  
Wire Length: 16", 600V Rated  
Approvals: UL Listed, UL916, UL864, C-UL  
California State Fire Marshal, CE, RoHS  
Housing Rating: UL Accepted for Use in Plenum, NEMA 1  
Gold Flash: Yes  
Override Switch: No  

## Sensor Contact:
- When current sensor status is off (open), leakage <30 uA @ 30Vac/dc  
- When current sensor status is on (closed), voltage drop <.3 Vac/dc @ .1 Amp  
< 1.6 Vac/dc @ .4 Amp  

## Sensor Feedback Output:
- Voltage output is proportional to current sensor range.  
- Min. Input Impedance = 30K ohms  
- Accuracy +/– 1% full scale  
- Vripple < 10m Vac  

## Notes:
- Models AXKT and AXGT CT remotes do not have contact closure circuitry and only work in conjunction with RIBXLCR and RIBXLCJF models, respectively.

---

## RIBXLC Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type *</th>
<th>Threshold</th>
<th>Sensor Output</th>
<th>Remote Style</th>
<th>Resistive Contact Ratings</th>
</tr>
</thead>
</table>
| RIBXLCF | .50-10 Amps    | Internal w/ contact status | Fixed, 50 Amp | Solid State Contact | 30 Vac/dc, 0.4 Amp | 10 Amp Resistive @ 120-277 Vac  
10 Amp Resistive @ 28 Vdc  
480 VA Pilot Duty @ 240-277 Vac  
480 VA Ballast @ 277 Vac  
Not rated for Electronic Ballast  
600 Watt Tungsten @ 120 Vac (N/O)  
240 Watt Tungsten @ 120 Vac (N/C)  
1/3 HP @ 120-240 Vac (N/O)  
1/4 HP @ 227 Vac (N/C)  
1/8 HP @ 277 Vac (N/C) |
| RIBXLA  | .50-10 Amps    | Internal w/ contact status | Adjustable | Solid State Contact | 30 Vac/dc, 0.4 Amp | 10 Amp Resistive @ 120-277 Vac  
10 Amp Resistive @ 28 Vdc  
480 VA Pilot Duty @ 240-277 Vac  
480 VA Ballast @ 277 Vac  
Not rated for Electronic Ballast  
600 Watt Tungsten @ 120 Vac (N/O)  
240 Watt Tungsten @ 120 Vac (N/C)  
1/3 HP @ 120-240 Vac (N/O)  
1/4 HP @ 227 Vac (N/C)  
1/8 HP @ 277 Vac (N/C) |
| RIBXLCV | 0-10 Amps      | Internal w/ voltage output | Analog | 0-5 Vdc | 0-10 Vdc | 10 Amp |
| RIBXLCRF | 1.25-150 Amps  | External w/ contact status | Fixed, 1.25 Amp | Solid State Contact | 30 Vac/dc, 0.4 Amp | Model AXKT: (Solid Core Remote CT) | 10 Amp |
| RIBXLCRA | 1.25-150 Amps  | External w/ contact status | Adjustable | Solid State Contact | 30 Vac/dc, 0.4 Amp | Model AXKT: (Solid Core Remote CT) | 10 Amp |
| RIBXLCJF | 3-150 Amps     | External w/ contact status | Fixed, 3 Amp | Solid State Contact | 30 Vac/dc, 0.4 Amp | Model AXGT: (Split Core Remote CT) | 10 Amp |
| RIBXLCJA | 3-150 Amps     | External w/ contact status | Adjustable | Solid State Contact | 30 Vac/dc, 0.4 Amp | Model AXGT: (Split Core Remote CT) | 10 Amp |
| RIBXLCFA | .125-5 Amps    | Internal w/ contact status | Adjustable | Solid State Contact | 30 Vac/dc, 0.4 Amp | 5 Amp Resistive @ 277 Vac  
345 VA Pilot Duty @ 120-240 Vac (N/O)  
268 VA Pilot Duty @ 277 Vac (N/O)  
211 VA Pilot Duty @ 120-240 Vac (N/C)  
175 VA Pilot Duty @ 277 Vac (N/C)  
1/3 HP @ 120-240 Vac (N/O)  
1/4 HP @ 227 Vac (N/C)  
1/8 HP @ 277 Vac (N/C) |
| RIBXLCV  | 0-5 Amps       | Internal w/ voltage output | Analog | 0-5 Vdc | 0-10 Vdc | 5 Amp |

* = Internal current sensor monitors current through common contact of relay.
RIBXLS Series
Enclosed Relay/AC Sensor Combinations, SPST + Override with 10-30 Vac/dc Coil

Specifications
- # Relays & Contact Type: One (1) SPST Continuous Duty Coil
- Expected Relay Life: 10 million cycles minimum mechanical
- Operating Temperature: -30 to 140°F
- Humidity Range: 5 to 95% (noncondensing)
- Coating: 0.007” thick, self-extinguishing, UL94V-0 rated
- Overtravel: 0.015” minimum
- Pull In = 9 Vac / 10 Vdc
- Drop Out = 2.1 Vac / 2.8 Vdc
- Pull In / Drop Out: 10-30 Vac/dc ; 50-60 Hz
- Coil Voltage Input: 20 mA  @ 30 Vdc
- 18 mA  @ 24 Vdc
- 15 mA  @ 12 Vdc
- 13 mA  @ 10 Vdc
- 55 mA  @ 30 Vac
- 46 mA  @ 24 Vac
- 35 mA  @ 12 Vac
- 33 mA  @ 10 Vac
- Coil Current: 33 mA @ 10 Vac
- 35 mA @ 12 Vac
- 46 mA @ 24 Vac
- 55 mA @ 30 Vac
- 13 mA @ 10 Vdc
- 15 mA @ 12 Vdc
- 18 mA @ 24 Vdc
- 20 mA @ 30 Vdc
- Sensor Contact: +
- When current sensor status is on (closed), voltage drop < 3Vac/dc @ .1 Amp
- < 1.6 Vac/dc @ .4 Amp
- Sensor Feedback Output:
- Voltage output is proportional to current sensor range.
- Min. Input Impedance = 30K ohms
- Accuracy +/- 1% full scale
- Vripple < 10m Vac

Notes:
- Normally Open or Normally Closed selected by yellow jumper wire
- Models AXKT and AXGT CT remotes do not have contact closure circuitry and only work in conjunction with RIBXLSR and RIBXLSJ models, respectively.

RIBXLS Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type</th>
<th>Threshold</th>
<th>Sensor Output</th>
<th>Remote Style</th>
<th>Resistive</th>
<th>Contact Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBXLSF</td>
<td>.50-10 Amps</td>
<td>Internal w/ contact status</td>
<td>Fixed, .50 Amp</td>
<td>Solid State Contact</td>
<td>30 Vac/dc, 0.4 Amp</td>
<td>10 Amp</td>
<td>480 VA Pilot Duty @ 277 Vac</td>
</tr>
<tr>
<td>RIBXLSA</td>
<td>.50-10 Amps</td>
<td>Internal w/ contact status</td>
<td>Adjustable</td>
<td>Solid State Contact</td>
<td>30 Vac/dc, 0.4 Amp</td>
<td>10 Amp</td>
<td>480 VA Ballast @ 277 Vac</td>
</tr>
<tr>
<td>RIBXLSV</td>
<td>0-10 Amps</td>
<td>Internal w/ voltage output</td>
<td>Analog</td>
<td>0-5 Vdc</td>
<td>10 Amp</td>
<td>1/3 HP @ 120-240 Vac (N/O)</td>
<td></td>
</tr>
<tr>
<td>RIBXLSRF</td>
<td>1.25-150 Amps</td>
<td>External w/ contact status</td>
<td>Fixed, 1.25 Amp</td>
<td>Solid State Contact</td>
<td>30 Vac/dc, 0.4 Amp</td>
<td>Model AXKT: (Solid Core Remote)</td>
<td>10 Amp</td>
</tr>
<tr>
<td>RIBXLSRA</td>
<td>1.25-150 Amps</td>
<td>External w/ contact status</td>
<td>Adjustable</td>
<td>Solid State Contact</td>
<td>30 Vac/dc, 0.4 Amp</td>
<td>Model AXKT: (Solid Core Remote)</td>
<td>10 Amp</td>
</tr>
<tr>
<td>RIBXLSJF</td>
<td>3-150 Amps</td>
<td>External w/ contact status</td>
<td>Fixed, 3 Amp</td>
<td>Solid State Contact</td>
<td>30 Vac/dc, 0.4 Amp</td>
<td>Model AXGT: (Split Core Remote)</td>
<td>10 Amp</td>
</tr>
<tr>
<td>RIBXLSJA</td>
<td>3-150 Amps</td>
<td>External w/ contact status</td>
<td>Adjustable</td>
<td>Solid State Contact</td>
<td>30 Vac/dc, 0.4 Amp</td>
<td>Model AXGT: (Split Core Remote)</td>
<td>10 Amp</td>
</tr>
<tr>
<td>RIBXLSFA</td>
<td>.125-5 Amps</td>
<td>Internal w/ contact status</td>
<td>Adjustable</td>
<td>Solid State Contact</td>
<td>30 Vac/dc, 0.4 Amp</td>
<td>5 Amp</td>
<td>345 VA Pilot Duty @ 120/240 Vac (N/O)</td>
</tr>
<tr>
<td>RIBXLSFV</td>
<td>0-5 Amps</td>
<td>Internal w/ voltage output</td>
<td>Analog</td>
<td>0-5 Vdc</td>
<td>5 Amp</td>
<td>175 VA Pilot Duty @ 277 Vac (N/C)</td>
<td></td>
</tr>
</tbody>
</table>

* = Internal current sensor monitors current through common contact of relay.
RIBX24 Series
Enclosed 20 Amp Relay/AC Sensor Combinations, with 24 Vac/dc Coil

RIBX24BA, RIBX24BF

RIBX24SBA, RIBX24SBF

RIBX24BV

RIBX24SBV

Specifications

- Expected Relay Life: 10 million cycles minimum mechanical
- Operating Temperature: -30 to 140°F
- Humidity Range: 5 to 95% (noncondensing)
- Relay Status: Red LED On = Activated
- Dimensions: 4.00” x 4.00” x 1.80” with .50” NPT Nipple
- Wire Length: 16”, 600V Rated
- Approvals: UL Listed, UL916, UL864, C-UL California State Fire Marshal, CE, RoHS
- Housing Rating: UL Accepted for Use in Plenum, NEMA 1
- Gold Flash: No

Coil Current:
- 50 mA @ 18 Vac
- 83 mA @ 24 Vac
- 33 mA @ 22 Vdc
- 35 mA @ 24 Vdc
- 47 mA @ 30 Vdc

Sensor Contact: +
- When current sensor status is off (open), leakage < 30 µA @ 30 Vac/dc
- When current sensor status is on (closed), voltage drop < .3 Vac/dc @ .1 Amp
- < 1.6 Vac/dc @ .4 Amp

Sensor Feedback Output: ^
- Voltage output is proportional to current sensor range.
- Min. Input Impedance = 30K ohms
- Accuracy +/- 1% full scale
- Ripple < 10m Vac

Sensor Feedback Output:
- Voltage output is proportional to current sensor range.
- Min. Input Impedance = 30K ohms
- Accuracy +/- 1% full scale
- Ripple < 10m Vac

Relay & AC Current Sensor Combos

RIBX24 Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type *</th>
<th>Threshold</th>
<th>Sensor Output</th>
<th>Resistive Override Switch</th>
<th>Contact Ratings</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBX24BF</td>
<td>50-20 Amps</td>
<td>Internal w/ contact status</td>
<td>Fixed, .50 Amp</td>
<td>Solid State Contact 30 Vac/dc, 0.4 Amp</td>
<td>20 Amp</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>RIBX24BA</td>
<td>50-20 Amps</td>
<td>Internal w/ contact status</td>
<td>Adjustable</td>
<td>Solid State Contact 30 Vac/dc, 0.4 Amp</td>
<td>20 Amp</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>RIBX24BV</td>
<td>0-20 Amps</td>
<td>Internal w/ voltage output</td>
<td>Analog</td>
<td>0-5 Vdc</td>
<td>20 Amp</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>RIBX24SBF</td>
<td>50-20 Amps</td>
<td>Internal w/ contact status</td>
<td>Fixed, .50 Amp</td>
<td>Solid State Contact 30 Vac/dc, 0.4 Amp</td>
<td>20 Amp</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>RIBX24SBA</td>
<td>50-20 Amps</td>
<td>Internal w/ contact status</td>
<td>Adjustable</td>
<td>Solid State Contact 30 Vac/dc, 0.4 Amp</td>
<td>20 Amp</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>RIBX24SBV</td>
<td>0-20 Amps</td>
<td>Internal w/ voltage output</td>
<td>Analog</td>
<td>0-5 Vdc</td>
<td>20 Amp</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

* = Internal current sensor monitors current through common contact of relay.

(RIBX24SBA)
### Relay & AC Current Sensor Combos

**RIBX243PF**
Enclosed Internal **Fixed** 50-20 Amp AC Sensor + Relay 20 Amp 3PST-N/O with 24 Vac/dc Coil

- **Coil Current**: 210 mA @ 24 Vac
- **Coil Voltage Input**: 24 Vac/dc, 50-60 Hz
- **Drop Out**: 3 Vac / 3.8 Vdc
- **Pull In**: 20 Vac / 22 Vdc

**Specifications**
- **Contact Ratings**: 20 Amp Resistive @ 300 Vac, 28 Vdc
- 20 Amp Ballast @ 277-480 Vac
- Not rated for Electronic Ballast
- 15 Amp Resistive @ 600 Vac
- 770 VA Pilot Duty @ 120 Vac, 1 Phase
- 1158 VA Pilot Duty @ 240 Vac, 1 Phase
- 1110 VA Pilot Duty @ 277 Vac, 1 Phase
- 1640 VA Pilot Duty @ 480 Vac, 1 Phase
- 1466 VA Pilot Duty @ 240 Vac, 3 Phase
- 2112 VA Pilot Duty @ 480 Vac, 3 Phase
- Heavy Pilot Duty @ 600 Vac
- 7.5 HP @ 480 Vac, 3 Phase
- 5 HP @ 240 Vac, 3 Phase
- 3 HP @ 480-600 Vac, 1 Phase
- 2 HP @ 240-277 Vac, 1 Phase
- 1 HP @ 120 Vac, 1 Phase

**Sensor Type**: Internal, with contact status
**Current sensing on orange wires**
**Sensor Threshold**: Fixed, 5 Amps (RIBX243PF)
**Adjustable, 50-20 Amps (RIBX243PA)**
**Sensor Range**: .50-20 Amps

**Sensor Contact**:
- Solid State Contact
- 30 Vac/dc, .4 Amp Max.
- When current sensor status is off (open), leakage <30 uA @ 30Vac/dc
- When current sensor status is on (closed), voltage drop <.3 Vac/dc @ .1 Amp
- <1.6 Vac/dc @ .4 Amp

**Notes**:
- Order Normally Closed by adding “-NC” to end of model number

**RIBX243PA**
Enclosed Internal **Adjustable** 50-20 Amp AC Sensor + Relay 20 Amp 3PST-N/O with 24 Vac/dc Coil

- **Coil Current**: 210 mA @ 24 Vac
- **Coil Voltage Input**: 24 Vac/dc, 50-60 Hz
- **Drop Out**: 3 Vac / 3.8 Vdc
- **Pull In**: 20 Vac / 22 Vdc

**Specifications**
- **Contact Ratings**: 20 Amp Resistive @ 300 Vac, 28 Vdc
- 20 Amp Ballast @ 277-480 Vac
- Not rated for Electronic Ballast
- 15 Amp Resistive @ 600 Vac
- 770 VA Pilot Duty @ 120 Vac, 1 Phase
- 1158 VA Pilot Duty @ 240 Vac, 1 Phase
- 1110 VA Pilot Duty @ 277 Vac, 1 Phase
- 1640 VA Pilot Duty @ 480 Vac, 1 Phase
- 1466 VA Pilot Duty @ 240 Vac, 3 Phase
- 2112 VA Pilot Duty @ 480 Vac, 3 Phase
- Heavy Pilot Duty @ 600 Vac
- 7.5 HP @ 480 Vac, 3 Phase
- 5 HP @ 240 Vac, 3 Phase
- 3 HP @ 480-600 Vac, 1 Phase
- 2 HP @ 240-277 Vac, 1 Phase
- 1 HP @ 120 Vac, 1 Phase

**Sensor Type**: Internal, with contact status
**Current sensing on orange wires**
**Sensor Threshold**: Fixed, 5 Amps (RIBX243PF)
**Adjustable, 50-20 Amps (RIBX243PA)**
**Sensor Range**: .50-20 Amps

**Sensor Contact**:
- Solid State Contact
- 30 Vac/dc, .4 Amp Max.
- When current sensor status is off (open), leakage <30 uA @ 30Vac/dc
- When current sensor status is on (closed), voltage drop <.3 Vac/dc @ .1 Amp
- <1.6 Vac/dc @ .4 Amp

**Notes**:
- Order Normally Closed by adding “-NC” to end of model number

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**RIBX243PV**
Enclosed Internal 0-20 Amp to 0-10 Vdc DC Transducer + Relay 20 Amp 3PST with 24 Vac/dc Coil

- **Coil Current**: 210 mA @ 24 Vac
- **Coil Voltage Input**: 24 Vac/dc, 50-60 Hz
- **Drop Out**: 3 Vac / 3.8 Vdc
- **Pull In**: 20 Vac / 22 Vdc

**Specifications**
- **Contact Ratings**: 20 Amp Resistive @ 300 Vac, 28 Vdc
- 20 Amp Ballast @ 277-480 Vac
- Not rated for Electronic Ballast
- 15 Amp Resistive @ 600 Vac
- 770 VA Pilot Duty @ 120 Vac, 1 Phase
- 1158 VA Pilot Duty @ 240 Vac, 1 Phase
- 1110 VA Pilot Duty @ 277 Vac, 1 Phase
- 1640 VA Pilot Duty @ 480 Vac, 1 Phase
- 1466 VA Pilot Duty @ 240 Vac, 3 Phase
- 2112 VA Pilot Duty @ 480 Vac, 3 Phase
- Heavy Pilot Duty @ 600 Vac
- 7.5 HP @ 480 Vac, 3 Phase
- 5 HP @ 240 Vac, 3 Phase
- 3 HP @ 480-600 Vac, 1 Phase
- 2 HP @ 240-277 Vac, 1 Phase
- 1 HP @ 120 Vac, 1 Phase

**Sensor Type**: Internal, with voltage output. Current sensing on orange wires
**Sensor Range**: 0-20 Amps

**Sensor Feedback Output**:
- Voltage output is proportional to current sensor range.
- Min. Input Impedance = 30K ohms
- Accuracy +/- 1% full scale
- Ripple <10m Vac

**Notes**:
- Order Normally Closed by adding “-NC” to end of model number
- Can be ordered with 0-5 Vdc voltage output - consult factory.

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### Current Sensors

**100**
**RIBMX24 Series**

4.00” Track Mount 20 Amp Relay/AC Sensor Combinations, with 24 Vac/dc Coil

### Specifications

- **Expected Relay Life:** 10 million cycles minimum mechanical
- **Operating Temperature:** -30 to 140°F
- **Humidity Range:** 5 to 95% (noncondensing)
- **Operate Time:** 18ms
- **Relay Status:** Red LED On = Activated
- **Dimensions:** 2.95” x 4.00” x 1.25”
- **Track Mount:** 4.000”, See MT4 Series on page 142
- **Approvals:** UL Listed, UL916, UL864, C-UL
- **California State Fire Marshal, CE, RoHS**
- **Gold Flash:** No

- **Coil Current:**
  - 50 mA @ 18 Vac
  - 83 mA @ 24 Vac
  - 33 mA @ 22 Vdc
  - 35 mA @ 24 Vdc
  - 47 mA @ 30 Vdc
- **Coil Voltage Input:** 24 Vac/dc ; 50-60 Hz
  - Drop Out = 3 Vac / 3.8 Vdc
  - Pull In = 18 Vac / 22 Vdc

### Relay & AC Current Sensor Combos

#### RIBMX24BA, RIBMX24BF+

- **Model#**
  - RIBMX24BF
  - RIBMX24BA
  - RIBMX24BV
  - RIBMX24SBF
  - RIBMX24SBA
  - RIBMX24SBV

- **Sensing Range**
  - .50-20 Amps

- **Type**
  - Internal w/ contact status

- **Threshold**
  - Fixed, .50 Amp
  - Adjustable

- **Sensor Output**
  - Solid State Contact
  - Analog

- **Resistive Override Switch**
  - 20 Amp
  - 0-5 Vdc
  - 0-10 Vdc

- **Contact Type**
  - SPDT

- **Contact Ratings**
  - 20 Amp Resistive @ 277 Vac
  - 20 Amp Ballast @ 277 Vac
  - 10 Amp Ballast @ 277 Vac (N/O)
  - 10 Amp Tungsten @ 120 Vac (N/O)

#### RIBX24 Series Selection Guide

<table>
<thead>
<tr>
<th>Model#</th>
<th>Sensing Range</th>
<th>Type</th>
<th>Threshold</th>
<th>Sensor Output</th>
<th>Resistive</th>
<th>Override Switch</th>
<th>Contact Type</th>
<th>Contact Ratings</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIBMX24BF</td>
<td>.50-20 Amps</td>
<td>Internal w/ contact status</td>
<td>Fixed, .50 Amp</td>
<td>Solid State Contact 30 Vac/dc, 0.4 Amp</td>
<td>20 Amp</td>
<td>No</td>
<td>SPDT</td>
<td>20 Amp Resistive @ 277 Vac</td>
<td>Normally Open or Normally Closed selected by yellow jumper wire</td>
</tr>
<tr>
<td>RIBMX24BA</td>
<td>.50-20 Amps</td>
<td>Internal w/ contact status</td>
<td>Adjustable</td>
<td>Solid State Contact 30 Vac/dc, 0.4 Amp</td>
<td>20 Amp</td>
<td>No</td>
<td>SPDT</td>
<td>20 Amp Ballast @ 277 Vac</td>
<td>Not rated for Electronic Ballast</td>
</tr>
<tr>
<td>RIBMX24BV</td>
<td>0-20 Amps</td>
<td>Internal w/ voltage output</td>
<td>Analog</td>
<td>0-5 Vdc 0-10 Vdc</td>
<td>20 Amp</td>
<td>No</td>
<td>SPDT</td>
<td>20 Amp No SPDT</td>
<td>1 HP @ 120 Vac</td>
</tr>
<tr>
<td>RIBMX24SBF</td>
<td>.50-20 Amps</td>
<td>Internal w/ contact status</td>
<td>Fixed, .50 Amp</td>
<td>Solid State Contact 30 Vac/dc, 0.4 Amp</td>
<td>20 Amp</td>
<td>Yes</td>
<td>SPDT</td>
<td>20 Amp Resistive @ 277 Vac</td>
<td>Normally Open or Normally Closed selected by yellow jumper wire</td>
</tr>
<tr>
<td>RIBMX24SBA</td>
<td>.50-20 Amps</td>
<td>Internal w/ contact status</td>
<td>Adjustable</td>
<td>Solid State Contact 30 Vac/dc, 0.4 Amp</td>
<td>20 Amp</td>
<td>Yes</td>
<td>SPDT</td>
<td>20 Amp Ballast @ 277 Vac</td>
<td>Not rated for Electronic Ballast</td>
</tr>
<tr>
<td>RIBMX24SBV</td>
<td>0-20 Amps</td>
<td>Internal w/ voltage output</td>
<td>Analog</td>
<td>0-5 Vdc 0-10 Vdc</td>
<td>20 Amp</td>
<td>Yes</td>
<td>SPDT</td>
<td>20 Amp Resistive @ 277 Vac</td>
<td>Normally Open or Normally Closed selected by yellow jumper wire</td>
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</table>