



# CS-RIBXLC Series

Current Sensors & Switches with Relay



## Overview

Enclosed, current sensors (voltage and current output) and switches (fixed and adjustable trip points) with relay (SPST, SPDT, 3PST).

## Applications

- BACnet IP networks

## Features & Benefits

- Conveniently packaged reels in a box
- Sequential footage markings to facilitate installation
- Color coded and print legends for quick identification and troubleshooting

## Model Selection

| Model#      | Range         | Type *                       | Threshold       | Sensor Output                          | Remote Style                       | Resistive | Contact Ratings                                                                                                                                                                                                                        |
|-------------|---------------|------------------------------|-----------------|----------------------------------------|------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CS-RIBXLCHF | .50-10 Amps   | Internal with contact status | Fixed, .50 Amp  | Solid State Contact;30 Vac/dc, 0.4 Amp | N/A                                | 10 Amp    | -10 Amp Resistive @ 120-277 Vac<br>-10 Amp Resistive @ 28 Vdc<br>-480 VA Pilot Duty @ 240-277 Vac                                                                                                                                      |
| CS-RIBXLCA  | .50-10 Amps   | Internal with contact status | Adjustable      | Solid State Contact;30 Vac/dc, 0.4 Amp | N/A                                | 10 Amp    | -480 VA Ballast @ 277 Vac<br>-Not rated for Electronic Ballast<br>-600 Watt Tungsten @ 120 Vac (N/O)                                                                                                                                   |
| CS-RIBXLCHF | 0-10 Amps     | Internal with voltage output | Analog          | 0-5 Vdc;0-10 Vdc                       | N/A                                | 10 Amp    | -240 Watt Tungsten @ 120 Vac (N/C)                                                                                                                                                                                                     |
| CS-RIBXLCHF | 1.25-150 Amps | External with contact status | Fixed, 1.25 Amp | Solid State Contact;30 Vac/dc, 0.4 Amp | Model AXKT: (Solid Core Remote CT) | 10 Amp    | -1/3 HP @ 120-240 Vac (N/O)<br>-1/6 HP @ 120-240 Vac (N/C)                                                                                                                                                                             |
| CS-RIBXLCHA | 1.25-150 Amps | External with contact status | Adjustable      | Solid State Contact;30 Vac/dc, 0.4 Amp | Model AXKT: (Solid Core Remote CT) | 10 Amp    | -1/4 HP @ 277 Vac (N/O)<br>-1/8 HP @ 277 Vac (N/C)                                                                                                                                                                                     |
| CS-RIBXLCHF | 3-150 Amps    | External with contact status | Fixed, 3 Amp    | Solid State Contact;30 Vac/dc, 0.4 Amp | Model AXGT: (Split Core Remote CT) | 10 Amp    |                                                                                                                                                                                                                                        |
| CS-RIBXLCHA | 3-150 Amps    | External with contact status | Adjustable      | Solid State Contact;30 Vac/dc, 0.4 Amp | Model AXGT: (Split Core Remote CT) | 10 Amp    |                                                                                                                                                                                                                                        |
| CS-RIBXLCEA | .125-5 Amps   | Internal with contact status | Adjustable      | Solid State Contact;30 Vac/dc, 0.4 Amp | N/A                                | 5 Amp     | -5 Amp Resistive @ 277 Vac<br>-345 VA Pilot Duty @ 120/240 Vac (N/O)                                                                                                                                                                   |
| CS-RIBXLCEV | 0-5 Amps      | Internal with voltage output | Analog          | 0-5 Vdc;0-10 Vdc                       | N/A                                | 5 Amp     | -268 VA Pilot Duty @ 277 Vac (N/O)<br>-211 VA Pilot Duty @ 120/240 Vac (N/C)<br>-175 VA Pilot Duty @ 277 Vac (N/C)<br>-1/3 HP @ 120-240 Vac (N/O)<br>-1/6 HP @ 120-240 Vac (N/C)<br>-1/4 HP @ 277 Vac (N/O)<br>-1/8 HP @ 277 Vac (N/C) |

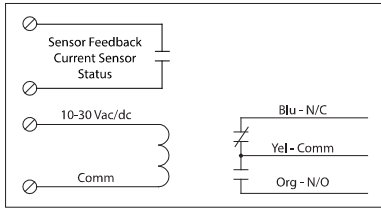
\* = Internal current sensor monitors current through common contact of relay.

# Product Specifications

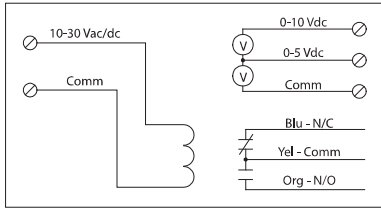
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|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| # Relays & Contact Type                                                          | 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)                                                                   |
| Operate 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                                                                                         |
| Coil Current:                                                                    |                                                                                            |
| <input type="checkbox"/>                                                         | 33 mA @ 10 Vac                                                                             |
| <input type="checkbox"/>                                                         | 35 mA @ 12 Vac                                                                             |
| <input type="checkbox"/>                                                         | 46 mA @ 24 Vac                                                                             |
| <input type="checkbox"/>                                                         | 55 mA @ 30 Vac                                                                             |
| <input type="checkbox"/>                                                         | 13 mA @ 10 Vdc                                                                             |
| <input type="checkbox"/>                                                         | 15 mA @ 12 Vdc                                                                             |
| <input type="checkbox"/>                                                         | 18 mA @ 24 Vdc                                                                             |
| <input type="checkbox"/>                                                         | 20 mA @ 30 Vdc                                                                             |
| Coil Voltage Input                                                               | 10-30 Vac/dc; 50-60 Hz                                                                     |
| <input type="checkbox"/> Drop Out                                                | 2.1 Vac / 2.8 Vdc                                                                          |
| <input type="checkbox"/> Pull In                                                 | 9 Vac / 10 Vdc                                                                             |
| Sensor Output                                                                    | CS-RIBXLCA, CS-RIBXLCF, CS-RIBXLCEA, CS-RIBXLCRA,<br>CS-RIBXLCRF, CS-RIBXLCJA, CS-RIBXLCJF |
| <input type="checkbox"/> When Current sensor status is off (open), leakage       | <30 uA @ 30Vac/dc                                                                          |
| <input type="checkbox"/> When current sensor status is on (closed), voltage drop | < .3 Vac/dc @ .1 Amp                                                                       |
| <input type="checkbox"/>                                                         | < 1.6 Vac/dc @ .4 Amp                                                                      |
| Sensor Output                                                                    | CS-RIBXLCV, CS-RIBXLCEV                                                                    |
| <input type="checkbox"/>                                                         | Voltage output is proportional to current sensor range                                     |
| <input type="checkbox"/>                                                         | Min. Input Impedance = 30K ohms                                                            |
| <input type="checkbox"/>                                                         | Accuracy +/- 1% full scale                                                                 |
| <input type="checkbox"/>                                                         | Vripple < 10m Vac                                                                          |

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

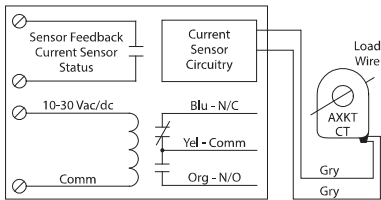
### Block Diagram for Models CS-RIBXLCA, CS-RIBXLCF, CS-RIBXLCEA



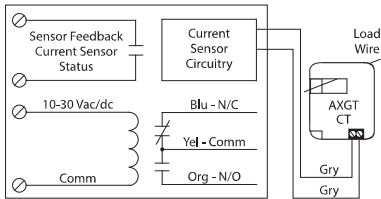
### Block Diagram for Models CS-RIBXLCV, CS-RIBXLCEV



### Block Diagram for Models CS-RIBXLCRA, CS-RIBXLCRF



### Block Diagram for Models CS-RIBXLCJA, CS-RIBXLCJF



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