



# CS-RIBXLS 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-RIBXLSF	.50-10 Amps	Internal*; with contact status	Fixed, .50 Amp	Solid State Contact; 30 Vac/dc, 0.4 Amp		10 Amp	-10 Amp Resistive @ 277 Vac -480 VA Pilot Duty @ 277 Vac -480 VA Ballast @ 277 Vac
CS-RIBXLSA	.50-10 Amps	Internal*; with contact status	Adjustable	Solid State Contact; 30 Vac/dc, 0.4 Amp		10 Amp	-Not rated for Electronic Ballast -600 Watt Tungsten @ 120 Vac (N/O) -240 Watt Tungsten @ 120 Vac (N/C)
CS-RIBXLSV	0-10 Amps	Internal*; with voltage output	Analog	0-5 Vdc; 0-10 Vdc		10 Amp	-1/3 HP @ 120-240 Vac (N/O) -1/6 HP @ 120-240 Vac (N/C) -1/4 HP @ 277 Vac (N/O) -1/8 HP @ 277 Vac (N/C)
CS-RIBXLSRF	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)	10 Amp	
CS-RIBXLSRA	1.25-150 Amps	External; with contact status	Adjustable	Solid State Contact; 30 Vac/dc, 0.4 Amp	Model AXKT: (Solid Core Remote)	10 Amp	
CS-RIBXLSJF	3-150 Amps	External; with contact status	Fixed, 3 Amp	Solid State Contact; 30 Vac/dc, 0.4 Amp	Model AXGT: (Split Core Remote)	10 Amp	
CS-RIBXLSJA	3-150 Amps	External; with contact status	Adjustable	Solid State Contact; 30 Vac/dc, 0.4 Amp	Model AXGT: (Split Core Remote)	10 Amp	
CS-RIBXLSEA	.125-5 Amps	Internal*; with contact status	Adjustable	Solid State Contact; 30 Vac/dc, 0.4 Amp		5 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)
CS-RIBXLSEV	0-5 Amps	Internal*; with voltage output	Analog	0-5 Vdc; 0-10 Vdc		5 Amp	-175 VA Pilot Duty @ 277 Vac (N/C) -1/3 HP @ 120-240 Vac (N/O) -1/6 HP @ 120-240 Vac (N/C) -1/4 HP @ 277 Vac (N/O) -1/8 HP @ 277 Vac (N/C)

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

# Product 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)
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	Yes

**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

Coil Voltage Input 10-30 Vac/dc; 50-60 Hz

- Drop Out 2.1 Vac / 2.8 Vdc
- Pull In 9 Vac / 10 Vdc

Sensor Output: CS-RIBXLSA, CS-RIBXLSF, CS-RIBXLSEA, CS-RIBXLSRA,  
CS-RIBXLSRF, CS-RIBXLSJA, CS-RIBXLSJF

- 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

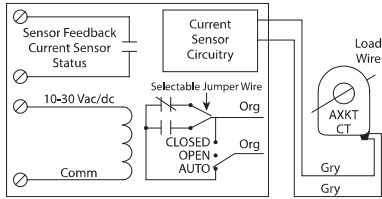
Sensor Output: CS-RIBXLSV, CS-RIBXLSEV

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

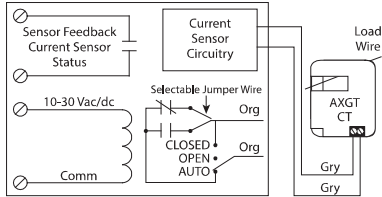
**Notes:**

- 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 CS-RIBXLSR and CS-RIBXLSJ models, respectively.

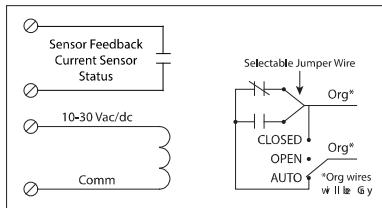
## Block Diagram for Models CS-RIBXLSRA, CS-RIBXLSRF



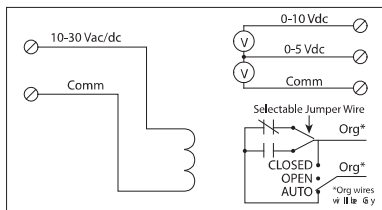
## Block Diagram for Models CS-RIBXLSJA, CS-RIBXLSJF



## Block Diagram for Models CS-RIBXLSA, CS-RIBXLSF, CS-RIBXLSEA



## Block Diagram for Models CS-RIBXLSV, CS-RIBXLSEV



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