CURRENT SENSORS

Solid and Split Core | Enclosed | Track Mount



Many Variations

- Miniature size
- Voltage outputs
- 4-20 mA regulation
- Adjustable or fixed
- Self-calibrating
- Relay and current sensor combinations
- Track mount styles

SOLID AND SPLIT CORE AC SENSORS

MODEL #	(4)	SENSOR OUTPU	r	RANGE	TYPE	THRESHOLD	NOTES	SPEC PAGE
RIBXKF	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Wire Leads)	.25-150A	Solid	Fixed, .25 Amp		93
RIBXKTF	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Terminals)	.25-150A	Solid	Fixed, .25 Amp		93
RIBXKA	•	Solid State Switch	SPST ; 30 Vac/dc ; .8 Amps Max (Wire Leads)	.50-150A	Solid	Adjustable		93
RIBXKTA	•	Solid State Switch	SPST ; 30 Vac/dc ; .8 Amps Max (Terminals)	.50-150A	Solid	Adjustable		93
RIBXGHF	•	Solid State Switch	SPST ; 120Vac, 1 Amp Max (Wht/Blk 16″ 18 AWG Wire Leads)	.50-150A	Split	Fixed, .50 Amp		93
RIBXGHTF	•	Solid State Switch	SPST ; 120Vac, 1 Amp Max (Terminal Strip, Accepts #14-22 AWG Wire)	.50-150A	Split	Fixed, .50 Amp		93
RIBXGHA	•	Solid State Switch	SPST ; 120Vac, 1 Amp Max (Wht/Blk 16″ 18 AWG Wire Leads)	.75-150A	Split	Adjustable		93
RIBXGHTA	•	Solid State Switch	SPST ; 120Vac, 1 Amp Max (Terminal Strip, Accepts #14-22 AWG Wire)	.75-150A	Split	Adjustable		93
RIBXGF	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Wire Leads)	.35-150A	Split	Fixed, .35 Amp		94
RIBXGFL	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Wire Leads)	.75-150A	Split	Fixed, .75 Amp		94
RIBXGTF	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Terminals)	.35-150A	Split	Fixed, .35 Amp		94
RIBXGTFL	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Terminals)	.75-150A	Split	Fixed, .75 Amp		94
RIBXGA	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Wire Leads)	.75-150A	Split	Adjustable		94
RIBXGTA	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Terminals)	.75-150A	Split	Adjustable		94
RIBXGA-SCAL	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Wire Leads)	3-150A	Split	Adjustable		94
RIBXGTA-SCAL	•	Solid State Switch	SPST ; 30 Vac/dc ; .4 Amps Max (Terminals)	3-150A	Split	Adjustable		94
RIBXG21F	•	Solid State Switch	SPST ; 120-277Vac, 1 Amp Max (Wht/Blk 16" 18 AWG Wire Leads)	.50-150A	Split	Fixed, .50 Amp		95
RIBXG21TF	•	Solid State Switch	SPST; 120-277Vac, 1 Amp Max (Terminal Strip, Accepts #14-22 AWG Wire)	.50-150A	Split	Fixed, .50 Amp		95
RIBXG21A	•	Solid State Switch	SPST ; 120-277Vac, 1 Amp Max (Wht/Blk 16" 18 AWG Wire Leads)	.75-150A	Split	Adjustable		95
RIBXG21TA	•	Solid State Switch	SPST; 120-277Vac, 1 Amp Max (Terminal Strip, Accepts #14-22 AWG Wire)	.75-150A	Split	Adjustable		95
RIBXKTV5-10	•	0-5 Vdc Voltage Ou	tput (Terminals)	0-10A	Solid	Analog		95
RIBXKTV5-20	•	0-5 Vdc Voltage Ou	tput (Terminals)	0-20A	Solid	Analog		95
RIBXKTV5-50	•	0-5 Vdc Voltage Ou	tput (Terminals)	0-50A	Solid	Analog		95
RIBXKTV5-100	•	0-5 Vdc Voltage Ou	tput (Terminals)	0-100A	Solid	Analog		95
RIBXK420-20	•	Loop Powered 4-20	OmA Transmitter Output (Wire Leads)	0-20A	Solid	Analog		96
RIBXK420-50	•	Loop Powered 4-20	OmA Transmitter Output (Wire Leads)	0-50A	Solid	Analog		96
RIBXK420-100	•	Loop Powered 4-20	OmA Transmitter Output (Wire Leads)	0-100A	Solid	Analog		96
RIBXGTV10	•	0-10 Vdc Voltage O	utput (Terminals)	0-20A, 0-50A, 0-100A	Split	Analog		96
RIBXG420-20	•	Loop Powered 4-20) mA Transmitter (Wire Leads)	0-20A	Split	Analog		97
RIBXG420-50	•	Loop Powered 4-20) mA Transmitter (Wire Leads)	0-50A	Split	Analog		97
RIBXG420-100	•	Loop Powered 4-20) mA Transmitter (Wire Leads)	0-100A	Split	Analog		97

T STYLE AC SENSORS

MODEL #		SENSOR OUTPUT	RANGE	TYPE	THRESHOLD	NOTES	SPEC PAGE
RIBXF	•	Solid State Switch SPST ; 30 Vac/dc ; .4 Amps Max	.50-30A	Internal	Fixed, .50 Amp		98
RIBXA	•	Solid State Switch SPST ; 30 Vac/dc-; .4 Amps Max	.50-30A	Internal	Adjustable		98
RIBXV	•	0-5 Vdc / 0-10 Vdc Voltage Output	0-30A	Internal	Analog		98
RIBXRF	•	Solid State Switch SPST ; 30 Vac/dc ; .4 Amps Max	1.25-150A	Solid	Fixed, 1.25 Amp		98
RIBXRA	•	Solid State Switch SPST ; 30 Vac/dc ; .4 Amps Max	1.25-150A	Solid	Adjustable		98
RIBXJF	•	Solid State Switch SPST ; 30 Vac/dc ; .4 Amps Max	3-150A	Split	Fixed, 3 Amp		99
RIBXJA	•	Solid State Switch SPST ; 30 Vac/dc ; .4 Amps Max	3-150A	Split	Adjustable		99

TRACK MOUNT AC SENSORS

MODEL #		SENSOR OUTPUT	RANGE	TYPE	THRESHOLD	NOTES	SPEC PAGE
RIBMXV	•	0-5 Vdc / 0-10 Vdc Voltage Output	0-20A	Internal	Analog		99
RIBMXRF	•	Solid State Switch SPST ; 30 Vac/dc ; .4 Amps Max	3-150A	Solid	Fixed, 3 Amp		99
RIBMXRA	•	Solid State Switch SPST ; 30 Vac/dc ; .4 Amps Max	3-150A	Solid	Adjustable		99

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

CURRENT SENSOR & RELAY COMBINATIONS

Enclosed | Track Mount



Made in the U.S.A. Meets the "Buy American" provisions of Section 1605 of the American Recovery and Reinvestment Act of 2009 (ARRA).

ENCLOSED AC SENSORS WITH RELAYS

MODEL #		AC/DC	RELAYS	CONTACTS	OVERRIDE SWITCH	SENSOR RANGE	SENSOR TYPE	SENSOR THRESHOLD	SPEC PAGE
RIBHX24BF	•	24	1	SPST-N/O		.25-20A	Internal	Fixed, .25 Amp	100
RIBXLCF	•	10-30	1	SPDT		.50-10A	Internal	Fixed, .50 Amp	101
RIBXLCA	•	10-30	1	SPDT		.50-10A	Internal	Adjustable	101
RIBXLCV	•	10-30	1	SPDT		0 - 10A	Internal	Analog	101
RIBXLCEA	•	10-30	1	SPDT		.125 - 5A	Internal	Adjustable	101
RIBXLCEV	•	10-30	1	SPDT		0 - 5A	Internal	Analog	101
RIBXLCRF	•	10-30	1	SPDT		1.25-150A	Solid	Fixed, 1.25 Amp	101
RIBXLCRA	•	10-30	1	SPDT		1.25-150A	Solid	Adjustable	101
RIBXLCJF	•	10-30	1	SPDT		3-150A	Split	Fixed, 3 Amp	101
RIBXLCJA	•	10-30	1	SPDT		3-150A	Split	Adjustable	101
RIBXLSF	•	10-30	1	SPST	1	.50-10A	Internal	Fixed, .50 Amp	102
RIBXLSA	•	10-30	1	SPST	1	.50-10A	Internal	Adjustable	102
RIBXLSV	•	10-30	1	SPST	1	0 - 10A	Internal	Analog	102
RIBXLSEA	•	10-30	1	SPST	1	.125 - 5A	Internal	Adjustable	102
RIBXLSEV	•	10-30	1	SPST	1	0 - 5A	Internal	Analog	102
RIBXLSRF	•	10-30	1	SPST	1	1.25-150A	Solid	Fixed, 1.25 Amp	102
RIBXLSRA	•	10-30	1	SPST	1	1.25-150A	Solid	Adjustable	102
RIBXLSJF	•	10-30	1	SPST	1	3-150A	Split	Fixed, 3 Amp	102
RIBXLSJA	•	10-30	1	SPST	1	3-150A	Split	Adjustable	102
RIBX24BF	•	24	1	SPDT		.50-20A	Internal	Fixed, .50 Amp	103
RIBX24BA	•	24	1	SPDT		.50-20A	Internal	Adjustable	103
RIBX24BV	•	24	1	SPDT		0 - 20A	Internal	Analog	103
RIBX24SBF	•	24	1	SPST	1	.50-20A	Internal	Fixed, .50 Amp	103
RIBX24SBA	•	24	1	SPST	1	.50-20A	Internal	Adjustable	103
RIBX24SBV	•	24	1	SPST	1	0 - 20A	Internal	Analog	103
RIBX243PF	• 1	24	1	3PST		.50-20A	Internal	Fixed, .50 Amp	104
RIBX243PA	• 1	24	1	3PST		.50-20A	Internal	Adjustable	104
RIBX243PV	• 1	24	1	3PST		0 - 20A	Internal	Analog	104

TRACK MOUNT AC SENSORS WITH RELAYS

MODEL #		AC/DC	RELAYS	CONTACTS	OVERRIDE SWITCH	SENSOR RANGE	SENSOR TYPE	SENSOR THRESHOLD	SPEC PAGE
RIBMX24BF	•	24	1	SPDT		.50-20A	Internal	Fixed, .50 Amp	105
RIBMX24BA	•	24	1	SPDT		.50-20A	Internal	Adjustable	105
RIBMX24BV	•	24	1	SPDT		0 - 20A	Internal	Analog	105
RIBMX24SBF	•	24	1	SPST	1	.50-20A	Internal	Fixed, .50 Amp	105
RIBMX24SBA	•	24	1	SPST	1	.50-20A	Internal	Adjustable	105
RIBMX24SBV	•	24	1	SPST	1	0 - 20A	Internal	Analog	105

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

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

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 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 Output: Current below threshold: Open ; Current above threshold: Closed



Sensor Contact:

Solid State Contact

- 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

RIBXK	SERIES SE	LECTIO	N GUIDE						
Model#	Sensing Range	Туре	Threshold	Sensor Contact Type	Switching Voltage Range	Maximum Switching Current	Sensor Contact Termination	LED 1	LED 2
RIBXKF	.25-150 Amp	Solid Core	Fixed, .25 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		
RIBXKTF	.25-150 Amp	Solid Core	Fixed, .25 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		
RIBXKA	.50-150 Amp	Solid Core	Adjustable	Solid State Switch SPST	30 Vac/dc	.8 Amps Max	Wht/Yel 16" 18 AWG Wire Leads	Over Trip Point	Under Trip Point
RIBXKTA	.50-150 Amp	Solid Core	Adjustable	Solid State Switch SPST	30 Vac/dc	.8 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire	Over Trip Point	Under Trip Point

AC CURRENT SWITCHES

RIBXGH Series

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



Sensor Contact -IFD 2 LED 1 (if present)

SPECIFICATIONS

Operating Temperature: -30 to 140° F Humidity Range: 5 to 95% (noncondensing) Max Sense Voltage: 600 Vac Sensor Contact Status: Current below threshold: Open

Temperature Derating: 1 Amp up to 50° C, 0.5 Amp up to 60° C Current above threshold: Closed







Wire Being Monitored







Wire Being Monitored



Notes:

- Use Sensor Contact to switch 120 Vac loads only.
- For testing purposes, Sensor Contact will
- measure approximately 250 Ω when closed and > 10 M Ω when open.

• The Sensor Contact is a Solid State Contact.

RIBXGH SERIES SELECTION GUIDE

Model#	Sensing Range	Туре	Threshold	Sensor Contact Type	Switching Voltage Range	Maximum Switching Current	Sensor Contact Termination	LED 1	LED 2
RIBXGHF	.50-150 Amp	Split Core	Fixed, .50 Amp	Solid State Switch SPST	120 Vac Only	1 Amp Max	Wht/Blk 16" 18 AWG Wire Leads		
RIBXGHTF	.50-150 Amp	Split Core	Fixed, .50 Amp	Solid State Switch SPST	120 Vac Only	1 Amp Max	Terminal Strip, Accepts #14-22 AWG Wire		
RIBXGHA	.75-150 Amp	Split Core	Adjustable	Solid State Switch SPST	120 Vac Only	1 Amp Max	Wht/Blk 16" 18 AWG Wire Leads	Over Trip Point	Under Trip Point
RIBXGHTA	.75-150 Amp	Split Core	Adjustable	Solid State Switch SPST	120 Vac Only	1 Amp Max	Terminal Strip, Accepts #14-22 AWG Wire	Over Trip Point	Under Trip Point

Approvals: UL Listed, UL916, C-UL, CE, RoHS 1

Mounting/ Removable mounting tab provided. The

monitored, securing the unit in place.

Installation: wire clamp locks against the wire being

RIBXG Series

Enclosed Self-Powered Split Core AC Sensors





- Removable Mounting Tab

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

C

LED 1

DIP Switch

Sensor Contact:

- Solid State Contact • 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

n Progress

SELF-CALIBRATING AC SWITCHES (Models with -SCAL Suffix)

	-SCAL LED TA	BLE
nsor	LED Off	No Current
mudel	Two Winks	Current Below Range
	Three Winks	Current In Range
	Four Winks	Current Above Range
	Continuous Winks	Calibration in Progres

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 SE	RIES SEI	LECTIO	N GUIDE						
Model#	Sensing Range	Туре	Threshold	Sensor Contact Type	Switching Voltage Range	Maximum Switching Current	Sensor Contact Termination	LED 1	LED 2
RIBXGF	.35-150 Amp	Split Core	Fixed, .35 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		
RIBXGFL*	.75-150 Amp	Split Core	Fixed, .75 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads	Over Trip Point	
RIBXGTF	.35-150 Amp	Split Core	Fixed, .35 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		
RIBXGTFL*	.75-150 Amp	Split Core	Fixed, .75 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire	Over Trip Point	
RIBXGA	.75-150 Amp	Split Core	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads	Over Trip Point	Under Trip Point
RIBXGTA	.75-150 Amp	Split Core	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire	Over Trip Point	Under Trip Point
RIBXGA-SCAL	3-150 Amp	Split Core	Self-Cal.	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads	See -SCAL Table	
RIBXGTA-SCAL	3-150 Amp	Split Core	Self-Cal.	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire	See -SCAL Table	

* = Not approved by California State Fire Marshal



RIBXG21 Series

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



Removable Mounting Tab

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: Monitored current below threshold: Open Monitored current above threshold: Closed

RIBXG2	21 SERIES S	ELECTIO	ON GUIDE						
Model#	Sensing Range	Туре	Threshold	Sensor Contact Type	Switching Voltage Range	Maximum Switching Current	Sensor Contact Termination	LED 1	LED 2
RIBXG21F	.50-150 Amps AC	Split Core	Fixed, .50 Amp AC	Solid State Switch SPST	120-277 Vac	1 Amp AC *	Wht/Blk 16" 18 AWG Wire Leads		
RIBXG21TF	.50-150 Amps AC	Split Core	Fixed, .50 Amp AC	Solid State Switch SPST	120-277 Vac	1 Amp AC *	Terminal Strip, Accepts #14-22 AWG Wire		
RIBXG21A	.75-150 Amps AC	Split Core	Adjustable	Solid State Switch SPST	120-277 Vac	1 Amp AC *	Wht/Blk 16" 18 AWG Wire Leads	Over Threshold	Under Threshold
RIBXG21TA	.75-150 Amps AC	Split Core	Adjustable	Solid State Switch SPST	120-277 Vac	1 Amp AC *	Terminal Strip. Accepts #14-22 AWG Wire	Over Threshold	Under Threshold

Approvals: UL Listed, UL916, C-UL,

Mounting/ Unit can be secured using

Clamp, or both.

Tab, the adjustable Wire

CE, RoHS

Installation: the supplied Mounting

AC TRANSDUCERS

RIBXKTV Series

Enclosed Self-Powered Solid Core Current to DC Transducers





LISTED US RoHS Made in USA Meets of ARRA 2009

SPECIFICATIONS

Operating Temperature:	-30 to 140° F
Humidity Range:	5 to 95% (noncondensing)
Accuracy:	96.8% Full Scale
Loading:	RIBXKTV5-10, 1% Error @ 180 kΩ
	RIBXKTV5-20, 1% Error @ 90 kΩ
	RIBXKTV5-50, 1% Error @ 40 kΩ
	RIBXKTV5-100, 1% Error @ 15 kΩ
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.
Sensor Type:	Solid core with voltage output

RIBXKTV S	RIBXKTV SERIES SELECTION GUIDE								
Model#	Sensing Range	Sensor Output							
RIBXKTV5-10	0-10 Amp	0-5 Vdc (Terminal Strip, Accepts #14-22 AWG Wire)							
RIBXKTV5-20	0-20 Amp	0-5 Vdc (Terminal Strip, Accepts #14-22 AWG Wire)							
RIBXKTV5-50	0-50 Amp	0-5 Vdc (Terminal Strip, Accepts #14-22 AWG Wire)							
RIBXKTV5-100	0-100 Amp	0-5 Vdc (Terminal Strip, Accepts #14-22 AWG Wire)							

RIBXG21F

Wht/Brn

Wht/Brn

Wire Being Monitored

Notes:

Use Sensor Contact to switch 120-277 Vac loads only.

RIBXG21TF

Wire Being

Monitored

- For testing purposes, Sensor Contact will measure approximately 250 Ω when closed
- and > 10 $M\Omega$ when open. • The Sensor Contact is a Solid State Contact.

8

CUL US

CE

de in USA Meets **'Buy American** of ARRA 2009

RIBXK420 Series

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





URRENT

SPECIFICATIONS

-30 to 140° F
5 to 95% (noncondensing)
Red (positive) & Black (negative), 16", 18 AWG, 600V Rated
Internal, with 4-20 mA Transmitter Output
0-20 Amps, 0-50 Amps, or 0-100 Amps
(See Selection Guide Below)
96.4% FS
99% FS (25%-100% Span)
30 mA
600 Vac
UL Listed, UL916, UL864, C-UL, California State Fire Marshal, CE, RoHS
Removable mounting tab provided. The wire clamp locks against the wire being monitored, securing the unit in place.

RIBXKTV SERIES SELECTION GUIDE

Model#	Sensing Range	Sensor Output
RIBXK420-20	0-20 Amps	Loop Powered 4-20 mA Transmitter (Pre-Wired)
RIBXK420-50	0-50 Amps	Loop Powered 4-20 mA Transmitter (Pre-Wired)
RIBXK420-100	0-100 Amps	Loop Powered 4-20 mA Transmitter (Pre-Wired)



OUTPUT LOAD RESISTANCE	SUPPLY	/OLTAGE
Maximum	Minimum	Maximum
700 ohms	26 Vdc	35 Vdc
600 ohms	24 Vdc	35 Vdc
500 ohms	21 Vdc	35 Vdc
400 ohms	19 Vdc	30 Vdc
300 ohms	17 Vdc	30 Vdc
250 ohms	16 Vdc	28 Vdc
200 ohms	14 Vdc	28 Vdc
100 ohms	12 Vdc	28 Vdc
50 ohms	11 Vdc	28 Vdc

AC TRANSDUCER

RIBXGTV10

Enclosed Self-Powered Spilt 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. Sensor Type: Split core with voltage output

2.050"

DIP SWITCH							
1	2	Sensing Range					
OFF	OFF	0-20 Amp					
OFF	ON	0-50 Amp					
ON	OFF	0-100 Amp					

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: Humidity Range: Wires:	-30 to 140° F 5 to 95% (noncondensing) Red (positive) & Black (negative), 16″, 18 AWG, 600V Rated	OUTPUT LOAD RESISTANCE	SUPPLY	/OLTAGE
Sensor Type:	Internal, with 4-20 mA Transmitter Output	Maximum	Minimum	Maximum
Sensor Range:	0-20 Amps, 0-50 Amps, or 0-100 Amps (See Selection Guide Below)	800 ohms	24 Vdc	35 Vdc
Accuracy:	Refer to chart below.	500 ohms	18 Vdc	35 Vdc
Max Output Current:	99% FS (20%-100% Span) 30 mA	350 ohms	15 Vdc	35 Vdc
Max Sense Voltage:	600 Vac	250 ohms	13 Vdc	35 Vdc
Approvals:	UL Listed, UL864, UL508, C-UL, California State Fire Marshal, CE, RoHS	200 ohms	12 Vdc	35 Vdc
Mounting/Installation:	Removable mounting tab provided. The wire clamp locks against the wire being monitored,	100 ohms	10 Vdc	35 Vdc
	securing the unit in place.	50 ohms	9 Vdc	35 Vdc

RIBXG420 S	SERIES SELECTI	ION GUIDE		ACCURACY						
Model#	Sensing Range	Sensor Output	Span 20% – 100%	Span 10% – 100%	Span 0% – 100%					
RIBXG420-20	0-20 Amps	Loop Powered 4-20 mA Transmitter (Pre-Wired)	99%	99%	95%					
RIBXG420-50	0-50 Amps	Loop Powered 4-20 mA Transmitter (Pre-Wired)	99%	97.5%	92%					
RIBXG420-100	0-100 Amps	Loop Powered 4-20 mA Transmitter (Pre-Wired)	99%	97%	91%					

• Accuracy charts are available on data sheet on website.

http://www.functionaldevices.com/pdf/ datasheets/RIBXG420_SERIES.pdf

Or scan QR code with your smart phone.





RIBXF

Enclosed Self-Powered Internal Fixed 0.50-30 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
 - 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

RIBXA

Enclosed Self-Powered Internal Adjustable 0.50-30 Amp AC Sensor







Sensor Type: Internal, with contact status Sensor Threshold: Fixed, .5 Amps (RIBXF) Adjustable, .50-30 Amps (RIBXA) 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

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

AC TRANSDUCER

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) 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

Sensor Output:

- · Voltage output is proportional to current sensor range.

- Vripple < 10m Vac



RIBXRF

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







RoHS Made in USA "Buy American" of ARRA 2009

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 Threshold: Fixed, 1.25 Amps (RIBXRF) Sensor Range: 1.25-150 Amps Max Sense Voltage: 600 Vac

Adjustable, 1.25-150 Amps (RIBXRA)

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

- Min. Input Impedance = 30K ohms
- Accuracy +/- 3% full scale

- Dimensions: 4.00" x 4.00" x 1.80" with .50" NPT Nipple

Max Sense Voltage: 600 Vac

- RIBXRA
- Enclosed Self-Powered Solid Ring Remote Adjustable 1.25-150 Amp AC Sensor





RIBXJF

Enclosed Self-Powered Split Ring Remote Fixed 3-150 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: (Outside) 2.52" x 2.00", (Inside) .52" x .52"

 - 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

RIBXJA

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





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

AC TRANSDUCER

RIBMXV

4.00^{°′} Track Mount Internal 0-20 Amp to 0-5 Vdc / 0-10 Vdc Self-Powered AC Transducer



SPECIFICATIONS

- Operating Temperature: -30 to 140° F
 - Humidity Range: 5 to 95% (noncondensing) Dimensions: 1.700" x 4.000" x 1.250" Track Mount: 4.000", See MT4 Series on page 152 MT4 Mounting Track Sold Separately Approvals: UL Listed, UL916, UL864, C-UL
 - California State Fire Marshal, CE, RoHS

Sensor Type: Internal, with voltage output Sensor Range: 0-20 Amps Max Sense Voltage: 300 Vac

Sensor Output:

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

AC CURRENT SWITCHES

RIBMXRF

4.00" Track Mount Solid Ring Remote Fixed 3-150 Amp AC Sensor, Self-Powered



RIBMXRA

4.00" Track Mount Solid Ring Remote Adjustable 3-150 Amp AC Sensor, Self-Powered





SPECIFICATIONS



Sensor Type:	External, with contact status
Inside Diameter:	.75″

Outside Diameter: 2.28 Sensor Threshold: Fixed, 3 Amps (RIBMXRF)

- Adjustable, 3-150 Amps (RIBMXRA) 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 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 Type: External, with contact status

Sensor Contact Status: Current below threshold: Open / LED OFF

Adjustable, 3-150 Amps (RIBXJA)

Current above threshold: Closed / LED ON

Sensor Threshold: Fixed, 3 Amps (RIBXJF).

Sensor Range: 3-150 Amps

Max Sense Voltage: 600 Vac

RELAY & AC CURRENT SWITCH COMBO

RIBHX24BF

Enclosed 20 Amp SPST-N/O Relay/AC Sensor Combination, with 24 Vac Coil





SPECIFICATIONS

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
Current Sensor Status	Pink LED On = Current Over Trip Point
	(0.25 Amp)
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

Contact Ratings:

20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac 16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Tungsten @ 120 Vac (N/O) 1,110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac 2 HP @ 277 Vac 1 HP @ 120 Vac

Coil Current:

128 mA @ 24 Vac 71 mA @ 30 Vdc

Coil Voltage Input:

24 Vac ; 50-60 Hz Drop Out = 3 Vac Pull In = 18 Vac

Sensor Contact:

• When current sensor status is off (open), leakage <30 uA @ 30Vac/dc

- \bullet When current sensor status is on (closed), voltage drop < .3 Vac/dc @ .1 Amp
- < 1.6 Vac/dc @ .4 Amp

RIBXLC Series

Enclosed Relay/AC Sensor Combinations, SPDT with 10-30 Vac/dc Coil

RIBXLCA, RIBXLCF, RIBXLCEA+



RIBXLCRA, RIBXLCRF+



SPECIFICATIONS

Relays & Contact Type:
Bypected 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:

Gold Flash: Yes Override Switch: No

RIBXLCV, RIBXLCEV



RIBXLCJA, RIBXLCJF+



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

Pull In = 9 Vac / 10 Vdc

Drop Out = 2.1 Vac / 2.8 Vdc

cULus 🧭 CE [





+ 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 +/- 3% 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 RIBXLCJ models, respectively.

R	IBXL	C SE	RIES SI	ELECT	ION G	UIDE

Model#	Sensing Range	Type *	Threshold	Sensor Output	Remote Style	Resistive	Contact Ratings
RIBXLCF	.50-10 Amps	Internal w/ contact status	Fixed, .50 Amp	Solid State Contact 30 Vac/dc, 0.4 Amp		10 Amp	10 Amp Resistive @ 120-277 Vac 10 Amp Resistive @ 28 Vdc 480 VA Pilot Duty @ 240-277 Vac
RIBXLCA	.50-10 Amps	Internal w/ contact status	Adjustable	Solid State Contact 30 Vac/dc, 0.4 Amp		10 Amp	480 VA Ballast @ 277 Vac Not rated for Electronic Ballast
RIBXLCV	0-10 Amps	Internal w/ voltage output	Analog	0-5 Vdc 0-10 Vdc		10 Amp	600 Watt Tungsten @ 120 Vac (N/O) 240 Watt Tungsten @ 120 Vac (N/C) 1/3 HP @ 120-240 Vac (N/O)
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	1/6 HP @ 120-240 Vac (N/C) 1/4 HP @ 277 Vac (N/O) 1/8 HP @ 277 Vac (N/C)
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	
RIBXLCEA	.125-5 Amps	Internal w/ 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)
RIBXLCEV	0-5 Amps	Internal w/ voltage output	Analog	0-5 Vdc 0-10 Vdc		5 Amp	1/3 HP @ 120-240 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.

RELAY & AC CURRENT SWITCH COMBOS

RIBXLS Series

Enclosed Relay/AC Sensor Combinations, SPST + Override with 10-30 Vac/dc Coil

RIBXLSA, RIBXLSF, (RIBXLSEA*)+



RIBXLSRA, RIBXLSRF+



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)
- 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

RIBXLSV, (RIBXLSEV*)^



RIBXLSJA, RIBXLSJF+



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

Pull In = 9 Vac / 10 Vdc

Drop Out = 2.1 Vac / 2.8 Vdc



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+ 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 +/- 3% 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

Model#	Sensing Range	Type *	Threshold	Sensor Output	Remote Style	Resistive	Contact Ratings
RIBXLSF	.50-10 Amps	Internal w/ 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 Palast @ 277 Vac
RIBXLSA	.50-10 Amps	Internal w/ 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)
RIBXLSV	0-10 Amps	Internal w/ voltage output	Analog	0-5 Vdc 0-10 Vdc		10 Amp	240 Watt Tungsten @ 120 Vac (N/C) 1/3 HP @ 120-240 Vac (N/O) 1/6 HP @ 120-240 Vac (N/C)
RIBXLSRF	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)	10 Amp	1/4 HP @ 277 Vac (N/O) 1/8 HP @ 277 Vac (N/C)
RIBXLSRA	1.25-150 Amps	External w/ contact status	Adjustable	Solid State Contact 30 Vac/dc, 0.4 Amp	Model AXKT: (Solid Core Remote)	10 Amp	
RIBXLSJF	3-150 Amps	External w/ contact status	Fixed, 3 Amp	Solid State Contact 30 Vac/dc, 0.4 Amp	Model AXGT: (Split Core Remote)	10 Amp	
RIBXLSJA	3-150 Amps	External w/ contact status	Adjustable	Solid State Contact 30 Vac/dc, 0.4 Amp	Model AXGT: (Split Core Remote)	10 Amp	
RIBXLSEA	.125-5 Amps	Internal w/ 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)
RIBXLSEV	0-5 Amps	Internal w/ voltage output	Analog	0-5 Vdc 0-10 Vdc		5 Amp	1/3 HP @ 120-240 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/C) 1/8 HP @ 277 Vac (N/C)

* = 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+



RIBX24BVA



RIBX24SBVA





CE

RoHS

US

SPECIFICATIONS

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: No

RIBX24 SERIES SELECTION GUIDE

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

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

Model#	Sensing Range	Type *	Threshold	Sensor Output	Resistive	Override Switch	Contact Ratings	Notes
RIBX24BF	.50-20 Amps	Internal w/ contact status	Fixed, .50 Amp	Solid State Contact 30 Vac/dc, 0.4 Amp	20 Amp	No	20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac 16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Turparton @ 120 Vac (N/O)	
RIBX24BA	.50-20 Amps	Internal w/ contact status	Adjustable	Solid State Contact 30 Vac/dc, 0.4 Amp	20 Amp	No	1,110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac 240 Watt Tungsten @ 120 Vac (N/C)	
RIBX24BV	0-20 Amps	Internal w/ voltage output	Analog	0-5 Vdc 0-10 Vdc	20 Amp	No	2 HP @ 2/7 Vac 1 HP @ 120 Vac	
RIBX24SBF	.50-20 Amps	Internal w/ contact status	Fixed, .50 Amp	Solid State Contact 30 Vac/dc, 0.4 Amp	20 Amp	Yes	20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac (N/O) 10 Amp Ballast @ 277 Vac (N/C) Not rated for Elactonic Ballact	Normally Open or Normally Closed selected by yellow jumper wire
RIBX24SBA	.50-20 Amps	Internal w/ contact status	Adjustable	Solid State Contact 30 Vac/dc, 0.4 Amp	20 Amp	Yes	10 Amp Tungsten @ 120 Vac (N/O) 1,110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac	
RIBX24SBV	0-20 Amps	Internal w/ voltage output	Analog	0-5 Vdc 0-10 Vdc	20 Amp	Yes	240 Watt Lungsten @ 120 Vac (N/C) 2 HP @ 277 Vac 1 HP @ 120 Vac	

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

RIBX243PF

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

Blu - N/O Blu - N/O Т Yel - N/O Г Yel - N/O Т Org - N/O Ó Ô. Ó. Ó 24 Vac/dc Comm Org - N/O τ Sensor Feedback sor Status (Orange Wires)

SPECIFICATIONS

Relays & Contact Type: One (1) 3PST 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, C-UL California State Fire Marshal, CE, RoHS Housing Rating: UL Accepted for Use in Plenum, NEMA 1 Gold Flash: No

210 mA @ 24 Vac 154 mA @ 30 Vdc

Coil Voltage Input: 24 Vac/dc : 50-60 Hz

Drop Out = 3 Vac / 3.8 Vdc Pull In = 20 Vac / 22 Vdc

RIBX243PV

ducer + Relay 20 Amp 3PST with 24 Vac/dc Coil



SPECIFICATIONS

Relays & Contact Type: One (1) 3PST 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, C-UL California State Fire Marshal, CE, RoHS Housing Rating: UL Accepted for Use in Plenum, NEMA 1 Gold Flash: No Override Switch: No

RIBX243PA

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



Contact Ratings:

20 Amp Resistive @ 300 Vac, 28 Vdc

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

20 Amp Ballast @ 277-480 Vac

Not rated for Electronic Ballast

15 Amp Resistive @ 600 Vac

Heavy Pilot Duty @ 600 Vac

3 HP @ 480-600 Vac, 1 Phase

2 HP @ 240-277 Vac, 1 Phase

7.5 HP @ 480 Vac, 3 Phase

5 HP @ 240 Vac, 3 Phase

1 HP @ 120 Vac, 1 Phase

Contact Ratings:

20 Amp Resistive @ 300 Vac, 28 Vdc

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

20 Amp Ballast @ 277-480 Vac

Not rated for Electronic Ballast

15 Amp Resistive @ 600 Vac

Heavy Pilot Duty @ 600 Vac

3 HP @ 480-600 Vac, 1 Phase

2 HP @ 240-277 Vac, 1 Phase

7.5 HP @ 480 Vac, 3 Phase

5 HP @ 240 Vac, 3 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





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
- Vripple < 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.

Coil Current: 210 mA @ 24 Vac 154 mA @ 30 Vdc **Coil Voltage Input:** 24 Vac/dc ; 50-60 Hz Drop Out = 3 Vac / 3.8 Vdc Pull In = 20 Vac / 22 Vdc

Override Switch: No

Coil Current:



RELAY & AC TRANSDUCER COMBO

Enclosed Internal 0-20 Amp to 0-10 Vdc DC Trans-

RIBMX24 Series

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

RIBMX24BA, RIBMX24BF+



RIBMX24SBA, RIBMX24SBF+

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RIBMX24BVA



RIBMX24SBVA





RoHS

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SPECIFICATIONS

Sensor Feedback Current Sensor Status

24 Vac/dc

Comm

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 152 MT4 Mounting Track Sold Separately Approvals: UL Listed, UL916, UL864, C-UL California State Fire Marshal, CE, RoHS Gold Flash: No

RIBMX24 SERIES SELECTION GUIDE

Selectable Jumper Wire

CLOSED

OPEN •

AUTO 1

Not Used ()

0

-0

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

FUNCTIONAL DEVICES CERTIFIED FOR USE WITH ECMs

Coil Voltage Input:

24 Vac/dc ; 50-60 Hz Drop Out = 3 Vac / 3.8 Vdc Pull In = 18 Vac / 22 Vdc

Sensor Contact: +

• When current sensor status is off (open), leakage <30 uA @ 30Vac/dc

 \bullet 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

Model#	Sensing Range	Туре	Threshold	Sensor Output	Resistive	Override Switch	Contact Type	Contact Ratings	Notes
RIBMX24BF	.50-20 Amps	Internal w/ contact status	Fixed, .50 Amp	Solid State Contact 30 Vac/dc, 0.4 Amp	20 Amp	No	SPDT	20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac 16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Tungsten @ 120 Vac (N/O) 1,110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac 240 Watt Tungsten @ 120 Vac (N/C) 2 HP @ 277 Vac 1 HP @ 120 Vac	
RIBMX24BA	.50-20 Amps	Internal w/ contact status	Adjustable	Solid State Contact 30 Vac/dc, 0.4 Amp	20 Amp	No	SPDT		
RIBMX24BV	0-20 Amps	Internal w/ voltage output	Analog	0-5 Vdc 0-10 Vdc	20 Amp	No	SPDT		
RIBMX24SBF	3.50-20 Amps	Internal w/ contact status	Fixed, .50 Amp	Solid State Contact 30 Vac/dc, 0.4 Amp	20 Amp	Yes	SPST	20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac (N/O) 10 Amp Ballast @ 277 Vac (N/C) <i>Not rated for Electronic Ballast</i> 10 Amp Tungsten @ 120 Vac (N/O) 1,110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac 240 Watt Tungsten @ 120 Vac (N/C) 2 HP @ 277 Vac 1 HP @ 120 Vac	Normally Open or Normally Closed selected by yellow jumper wire
RIBMX24SBA ECM	s.50-20 Amps	Internal w/ contact status	Adjustable	Solid State Contact 30 Vac/dc, 0.4 Amp	20 Amp	Yes	SPST		
RIBMX24SBV	0-20 Amps	Internal w/ voltage output	Analog	0-5 Vdc 0-10 Vdc	20 Amp	Yes	SPST		

ECMs = FDI Certified for use with electronically commutated motors