

Product overview

The Axio AX-RLA-230-ACT-X converts 230Vac raise-lower input signals into a 0-10 volt analogue output. The unit provides various cycle times that are jumper selectable. The AX-RLA-230-ACT-X also provides a 24Vac supply for valve actuators, etc. to simplify cabling. The unit features a manual preset for commissioning purposes. The AX-RLA-230-ACT-X is supplied in a DIN rail carrier suitable for mounting on TS35 section DIN rail and features high quality rising clamp terminals for ease of connection.

Features

- 230Vac Raise Lower inputs
- 24Vac output at 5.5VA, 9VA or 12VA
- Manual override preset for commissioning
- Selectable Cycle Times
- 230Vac powered
- DIN rail carrier (TS35 DIN rail)

Product specifications

Supply voltage	230Vac ($\pm 15\%$), 50-60Hz		
Inputs (Raise and Lower)	230Vac ($\pm 15\%$), 50-60Hz		
Input load	2mA maximum (note if triacs are used to switch the inputs, the triacs must be able to switch on and off correctly at 1.5mA)		
Raise-Lower timing	30 to 300 Seconds – see table 1		
Analogue output	0 - 10Vdc at 5mA maximum load		
Aux Power Output	-ACT-5.5	-ACT-9	-ACT-12
	5.5VA	9VA	12VA
Secondary Fuse	250mA A/S	500mA A/S	1A A/S
Primary Fuse	none	250mA, 250V A/S	250mA, 250V A/S
Terminals	Rising clamp for 0.5-1.5mm ² cable		
Ambient temperature range	0°C to 50°C		
Dimensions	68(W) x 83(H) x 58(D) mm (Maximum)		
Weight	250 grams		
Country of origin	United Kingdom		

Order codes

AX-RLA-230-ACT-5.5	Raise-Lower to Analogue converter -230Vac with 24Vac 5.5VA Output
AX-RLA-230-ACT-9	Raise-Lower to Analogue converter -230Vac with 24Vac 9VA Output
AX-RLA-230-ACT-12	Raise-Lower to Analogue converter -230Vac with 24Vac 12VA Output

Order online at:
www.annicom.com
Email orders and enquiries to:
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AX-RLA-230-ACT-X

Raise-Lower to Analogue Converter – 230V input with 24Vac actuator supply



Installation

The AX-RLA-230-ACT-X should be installed by a suitably qualified technician in conjunction with any guidelines for the equipment it is to be connected to. Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to.

Operation

The raise and lower inputs are converted using the selected cycle time to produce a proportional 0-10V analogue output. Assuming a cycle time of 150 seconds has been selected, and the output is initially at 0V, on recognition of an input signal at the raise input, the output will start to rise towards 10V. After 75 seconds of a signal being continuously applied to the raise input, the output will be at 5V. If the raise signal is then removed from the input, the output will remain at 5V, and will do so until another signal is applied to either the raise or lower inputs. If a signal is now applied continuously to the lower input, the output will ramp down towards 0V, and after 75 seconds will reach 0V. The signal will remain at 0V until a raise signal is applied again. Even if a lower signal is applied again, the unit remains at 0V.

Connections

The unit requires 230Vac power at the terminals marked Live and Neutral. The raise and lower inputs require two switched live input signals. A common Neutral terminal is provided between the raise and lower terminals, although this does not need to be connected.

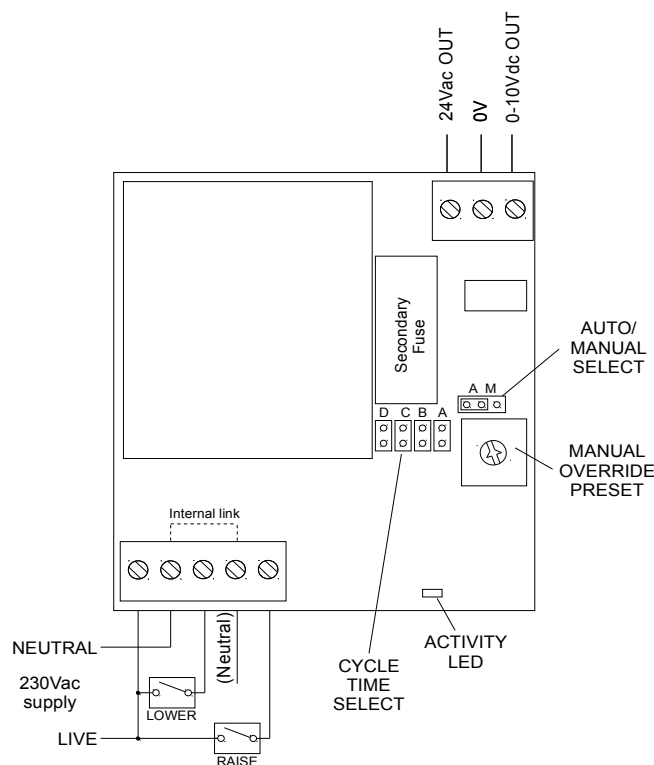
A supply of 24Vac is available between the 24Vac and 0V terminals. This can be used to power a valve. This supply is protected by the on-board fuse. Refer to the product specification table overleaf for the correct type of replacement fuse.

Setup

When power is applied to the unit, the activity LED will pulse on and off at one second intervals during normal operation. For commissioning purposes, move the Auto/Manual jumper to position M. The 0-10V output can now be varied over the range 0 to 10V by adjusting the manual override preset.

In normal operation the Auto/Manual jumper must be in position A. The 0-10V output then responds to the raise-lower inputs.

The cycle time select jumpers A,B,C and D must be selected according to the valve opening time. See Table 1 for the time ranges available (X = jumper fitted).



Cycle time select jumpers				Cycle time seconds
A	B	C	D	
-	-	-	-	30
-	-	-	X	35
-	-	X	-	60
-	-	X	X	70
-	X	-	-	80
-	X	-	X	90
-	X	X	-	95
-	X	X	X	100
X	-	-	-	105
X	-	-	X	120
X	-	X	-	125
X	-	X	X	140
X	X	-	-	150
X	X	-	X	180
X	X	X	-	200
X	X	X	X	300

Table 1 Raise-lower cycle times

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