AX-ARL

Analogue to Raise Lower Control Module

Product Overview

The Axio AX-ARL converts a 0-10Vdc control signal into a timed Raise-Lower output. The module can be configured for a different timing ranges by means of jumpers and/or potentiometer. Typical applications are for raise-lower or window actuators in conjunction with a BMS or controller that only provides 0-10V control.

The AX-ARL 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

- 0-10Vdc control input
- 2 x SPCO relay outputs
- On/Off/Auto override
- 24Vac/dc powered
- Fixed and Adjustable time ranges
- LED indication of operation
- 24 hour rest
- DIN rail carrier (TS35 DIN rail)

Product Specifications

Power Supply		24Vac (±15%) at 70mA maximum or, 24Vdc (±15%) at 50mA maximum
Input		0-10Vdc at 1mA maximum
Outputs		2 off SPCO contacts
Output Rating		12Amps, 240Vac resistive
Raise Lower Timing	AX-ARL	90 to 300 / 210 fixed / 30 to 150 seconds
	AX-ARL2	10 to 30 / 90 fixed / 60 to 120 seconds
Reset		Module drives closed for 115% range every 24 hours, and at Power-on
LED Indication		Illuminated when output is on
Manual Override		On/Off/Auto override by jumper selection
Terminals		Rising clamp for 0.5-2.5mm² cable
Ambient Temperature Range		0 to 50˚C
Dimensions		46(W) x 83(H) x 50(D)mm (Maximum)
Weight		72gms
Country of Origin		United Kingdom

Order Codes

AX-ARL	Analogue to Raise Lower Module - (Cycle times as above)
AX-ARL2	Analogue to Raise Lower Module - (Cycle times as above)

Annicom Ltd
Unit 21, Highview, Bordon, Hampshire. GU35 0AX
Tel: +44 (0)1420 487788 Fax: +44 (0)1420 487799
Email: sales@annicom.com Website: www.annicom.com

Installation

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

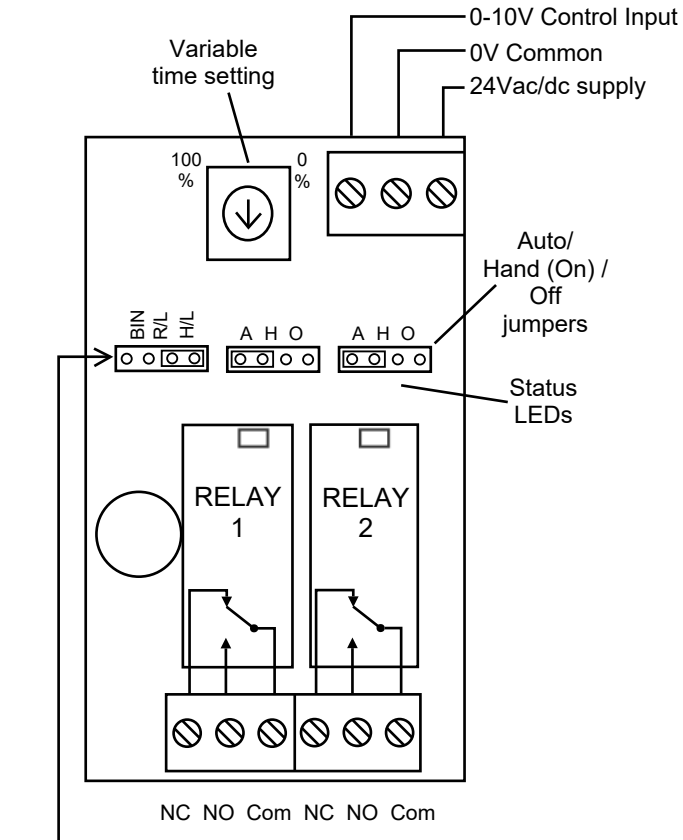
Description and Connections

Output Range
Position the Timer Select jumper in the appropriate position, for the timing required. Intermediate values should be checked by moving the adjustment potentiometer, and checking with a stopwatch.

Commissioning
Two links are provided for each output. In the H (On) position, the output will be permanently energised. Move the jumper to the A (Auto) position for timed position according to the control voltage.

Reset (assume 210 second setting)
On initial power up, and every 24 hours thereafter, the Lower Output will drive for 241 seconds. Then the Raise Output will drive according to the input demand. This reset function ensures that the module does not lose synchronisation after 24 hours of use.

Operation (assume 210 second setting)
The output of the AX-ARL is in direct proportion to the control input signal. A 10V signal will operate the Raise output for 210 seconds. If there is then no change to the input signal, both outputs remain off. As soon as the input signal changes, the module will change the output accordingly. So, if the input signal then changes to 5V, the Lower output will operate for 105 seconds. A subsequent change of the input signal to 0V, and the Lower output will operate for a further 105 seconds, i.e. closing the actuator.



Timer select	AX-ARL	AX-ARL2
BIN R/L H/L		
	90-300	10-30
	210	90
	30-150	60-120