AX-ASM

Analogue Switch Module

PROVISIONAL

Product overview

The AX-ASM analogue switch module switches low voltage AC or DC signals. The module has two changeover contacts that can be either switched on-board every 15 or 30 seconds (set by the TIME jumper) or remotely with a volt free contact. The unit is ideal for multiplexing low voltage input signals. To aid commissioning a jumper is provided to select either of the inputs.

The AX-ASM is powered by 24Vac or 24Vdc and is supplied in a DIN rail carrier for mounting on TS35 section DIN rail. The unit has high quality rising clamp terminals for ease of connection.

Features

● Long life relay for small signal switching

● Automatic switch-over time or remote selection

● DIN rail carrier as standard (TS35 DIN rail)

● High quality rising clamp terminals

Product specifications

Input / Output	0-10Vdc or 0-24Vac at < 10mA. See Operation and connections for currents > 10mA
Select input	VFC or open-collector to switch 24Vdc at 10mA
Power supply	24Vac ±10% at 30mA or 24Vdc ±10% at 20mA
Relay life mechanical	100 million operations minimum
Timing	15 or 30 seconds or remotely switched
Timing tolerance	±10%
Terminals	Rising Clamp for 0.5-2.5mm^2 cable
Ambient temperature range	0°C to 50°C
Dimensions	34(W) x 83(H) x 47(D) mm maximum
Weight	50g
Country of origin:	United Kingdom

Order codes

AX-ASM   Analogue Switch Module

Order online at:

www.annicom.com

Email orders and enquiries to:

sales@annicom.com

AX-ASM

Analogue Switch Module

PROVISIONAL

Installation

The AX-ASM 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.

Operation and connections

The AX-ASM has two sets of relay changeover contacts as shown in the diagram below. The contacts are designed for long life and switching low voltage signals making the unit ideal for switching two pairs of analogue sensor signals or control signals. These signals can be switched as required using the SELECT input or automatically using the internal timer, either every 15 or 30 seconds.
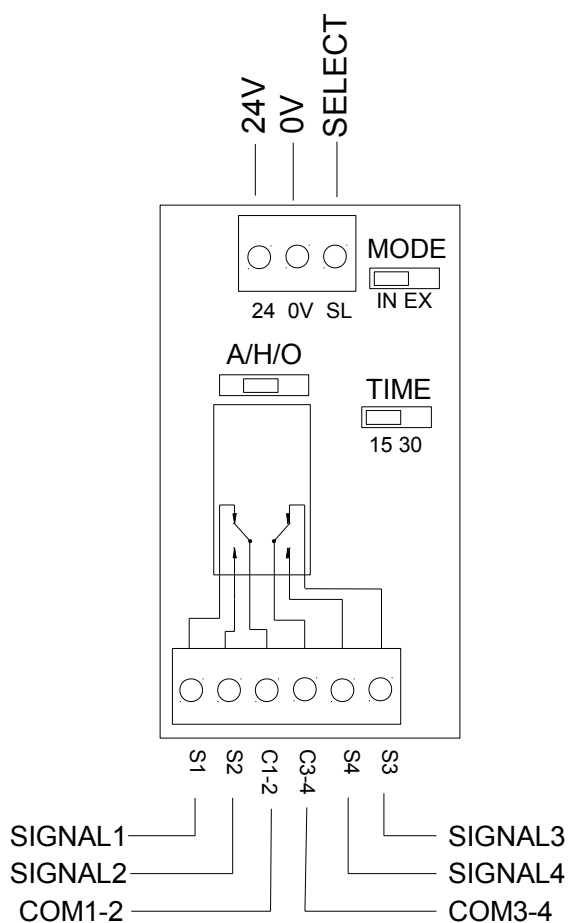
A/H/O Jumper

A - Select for normal Auto operation.

H - Select for hand operation (permanently energise relay)

O - Select to keep the relay permanently off

MODE Jumper

IN – The relay is continuously switched at the rate set by the TIME jumper

EX – The relay is switched by an external contact to 0V on the SELECT input

TIME Jumper

This only has effect when the MODE jumper is set to the IN position

15 - the relay will switch every 15 seconds

30 - the relay will switch every 30 seconds

Maximum switching current

The maximum switching current is 0.5A but this will reduce the working lifetime of the unit.

PROVISIONAL DATASHEET.

Connections, component positions and specification may change on actual module.

Application notes

Automatic low voltage switching with selected input indication
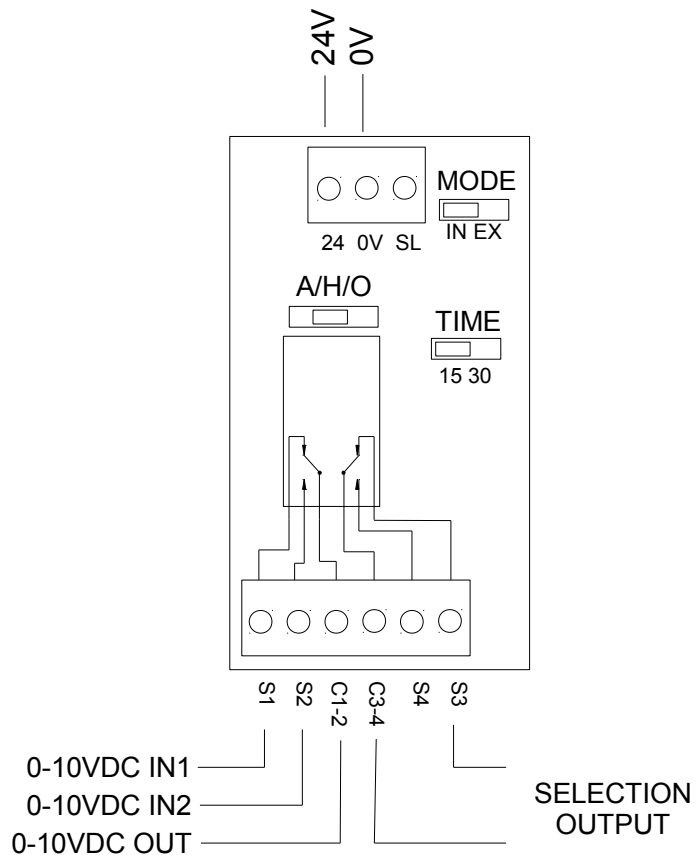
Operation

The circuit opposite will switch 0-10VDC OUT between 0-10VDC IN1 and 0-10VDC IN2. The SELECTION INPUT is wired to indicate which input is currently selected and will be short circuit when 0-10VDC IN 1 is selected and open circuit when 0-10VDC IN 2 is selected. With the jumpers set as below the unit will switch every 30 seconds.

Jumpers selection

MODE in IN position

A/H/O in A postion

TIME in 30 position

PROVISIONAL DATASHEET.

Connections, component positions and specification may change on actual module.