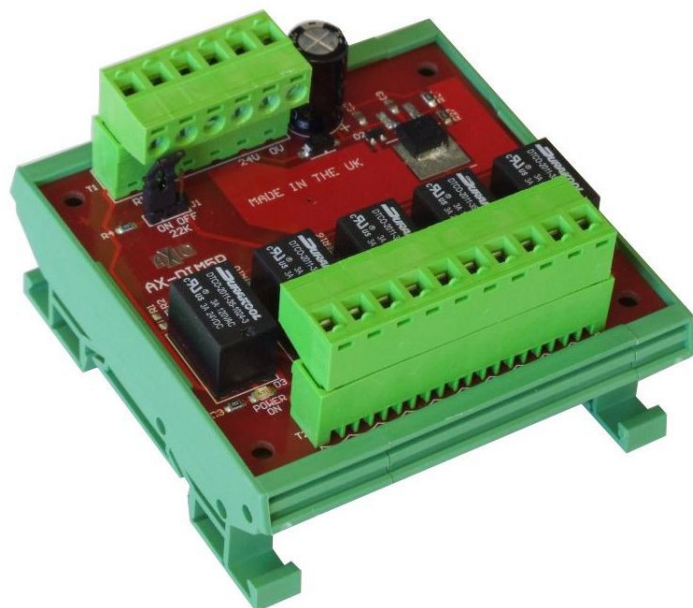


AX-DIM5R

5 Channel Digital Input Multiplexer with Resistance output



Product overview

The AX-DIM5R multiplexes 5 digital inputs into one floating resistance output. The resistance output range is designed to interface directly with the TAC Micronet range of controllers, but can also be used with any similar compatible controller. A jumper link allows the option of selecting a parallel 22.1k Ω resistance for use with specific controllers with a limited input range on the universal input. LEDs provide status indication of the inputs and power on.

The unit is powered by 24Vac or 24Vdc. The AX-DIM5R is supplied in a DIN rail carrier as standard, but can also be mounted directly to a panel using the four corner mounting holes.

Features

- Expansion of controller capacity by 5 inputs
- Operates from 24Vac or dc power supply
- Floating/isolated resistance output
- DIN rail carrier or panel mounted

Product specifications

Inputs:	Volt free or 24Vdc (>18Vdc=on, <2.4Vdc off). Must be able to switch 10mA
Output (without Rp selected):	Nominal 779.9 to 1557.9 Ω (see table)
Output (with Rp selected):	Nominal 752.4 to 1455.3 Ω (see table)
Output tolerance:	$\pm 2.0\Omega$ of nominal maximum
Output applied voltage:	17Vdc absolute maximum
LED Indication	Green LED for Power on. Red LEDs on when input on
Terminals:	Rising Clamp for 0.5-2.5mm ² Cable
Ambient Temperature:	0°C to 50°C
Dimensions:	79 (W) x 82 (H) x 51 (D) mm (max.) Fits on to standard TS35 DIN rail section
Fixing Holes:	3.5mm diameter holes on 67 (W) x 60 (H) mm centres
Weight:	105g
Country of origin:	United Kingdom

Order codes

AX-DIM5R

5 Channel Digital Input Multiplexer with Resistance output

Order online at:

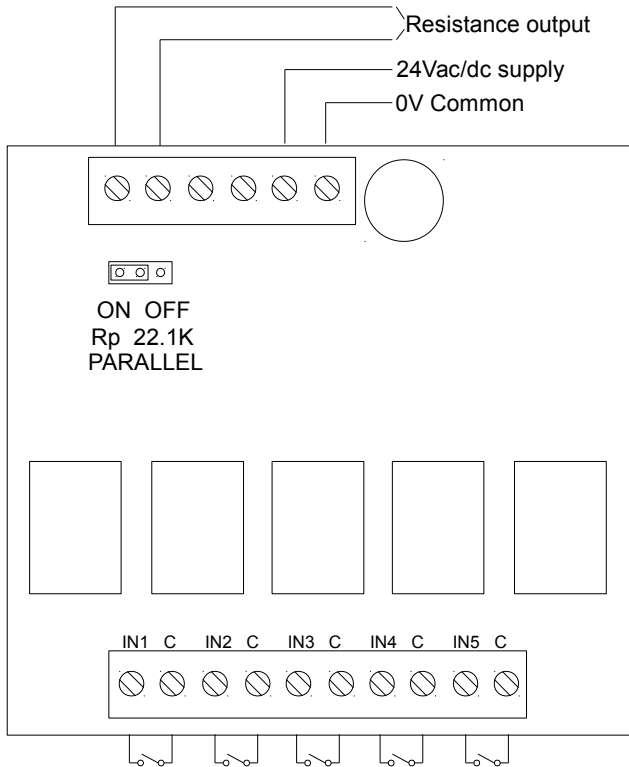
www.annicom.com

Email orders and enquiries to:

sales@annicom.com

Installation

The AX-DIM5R 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

Input connections (0 = switch open, 1 = switch closed)					Nominal with Rp off Ω	Nominal with Rp on Ω
IN1	IN2	IN3	IN4	IN5		
0	0	0	0	0	1557.9	1455.3
0	0	0	0	1	1532.9	1433.5
0	0	0	1	0	1507.9	1411.6
0	0	0	1	1	1482.9	1389.7
0	0	1	0	0	1457.9	1367.7
0	0	1	0	1	1432.9	1345.7
0	0	1	1	0	1407.9	1323.6
0	0	1	1	1	1382.9	1301.5
0	1	0	0	0	1357.0	1278.5
0	1	0	0	1	1332.0	1256.2
0	1	0	1	0	1307.0	1234.0
0	1	0	1	1	1282.0	1211.7
0	1	1	0	0	1257.0	1189.3
0	1	1	0	1	1232.0	1166.9
0	1	1	1	0	1207.0	1144.5
0	1	1	1	1	1182.0	1122.0
1	0	0	0	0	1154.9	1097.6
1	0	0	0	1	1129.9	1075.0
1	0	0	1	0	1104.9	1052.3
1	0	0	1	1	1079.9	1029.6
1	0	1	0	0	1054.9	1006.9
1	0	1	0	1	1029.9	984.1
1	0	1	1	0	1004.9	961.2
1	0	1	1	1	979.9	938.3
1	1	0	0	0	954.0	914.5
1	1	0	0	1	929.0	891.5
1	1	0	1	0	904.0	868.4
1	1	0	1	1	879.0	845.3
1	1	1	0	0	854.0	822.2
1	1	1	0	1	829.0	799.0
1	1	1	1	0	804.0	775.7
1	1	1	1	1	779.0	752.4

Connections

The 0V supply terminal is common with the input terminals marked C. The two resistance output terminals are isolated from all other module connections.

The combined resistance of the leads and switches for each input must be less than 200 Ohms, and must be volt-free contacts.

The resistance of the output leads must be such that the tolerance band of the controller is not exceeded for each switch stage.

All signal wiring should be kept away from mains power cables wherever possible. Use of screened cable (with the screen earthed at one end only) may be required on longer cable installations, and where noise might be a problem. In general, all wiring should be less than 100m long.

Fit jumper to Rp ON position when required to limit the resistance range, as required by some universal input stages.