

IO-xDIX Digital Input Multiplexers

The DIX modules are intended for use with Direct Digital Controllers or BMS outstations to expand their digital input capacity by multiplexing digital signals into a single analogue signal.

The digital input combination's correspond to a unique analogue value, which with the correct controller software strategy, will be decoded into digital states. The 4DIX and 6DIX modules are directly compatible with the Trend A to D Function Module. The 5 DIX module is directly compatible with the Barber Colman Network 8000 Microzone® Sequence Module.

The 4DIX, 5DIX and 6DIX module has voltage free digital inputs. The 4DIX-24 module converts voltage input signals to analogue output. The 4DIX-PB module is designed to be used with rapid input changes, typically push buttons, and has an on board 10 sec off delay timer for each input.



FEATURES:-

- Expands controller input capacity
- LED status indication
- Input isolation via on board 24V dc relay contacts
- Galvanomically isolated 24 Vac/dc inputs (4DIX-24)
- Protects controller input circuitry against faulty field wiring
- Can be configured for voltage or resistance outputs (4DIX modules)
- Universal input power supply
- Designed for DIN rail mounting
- Rising cage terminals

Model Types	Model	Description
	IO-4DIX	IO-4DIX Digital Input Multiplexer, 4 Digital Inputs
	IO-5DIX	IO-5DIX Digital Input Multiplexer, 5 Digital Inputs
	IO-6DIX	IO-6DIX Digital Input Multiplexer, 6 Digital Inputs
	IO-4DIX-24	IO-4DIX-24 Digital Input Multiplexer, 4 24Vac/dc Inputs
	IO-4DIX-PB	IO-4DIX-PB Digital Input Multiplexer, 4 24Vac/dc Push Button Inputs
Technical Data	Power Supply	24 V ac/dc (+/- 15 %)
	Power Consumption	50mA – 4DIX 70mA – 5DIX, 6DIX
	Inputs	* 4 potentially free relay contacts – 4DIX * 5 potentially free relay contacts – 5DIX * 5 potentially free relay contacts – 6DIX * 4 x 24Vac/dc relay galvanomically isolated; Input Power 4 x 15mA @ 24Vac/dc (+/-15%) – 4DIX-24 * 4 potentially free relay or push button contacts – 4DIX-PB
	Output	0-10 Vdc
	Operating Modes	Jumper Selectable - Voltage - Thermistor (Resistance) – 4DIX, 4DIX-24, 4DIX-PB
	LED Indication	ON when relay is energised
	Terminals	0.5 – 2.5 mm ² cable
	Ambient Temperatures	-10 to +50°C
	Mounting	DIN rail
Dimensions	W68 x H77 x D44 mm - 4DIX, 4DIX-24, 4DIX-PB W90 x H77 x D44 mm - 5DIX, 6DIX	

Output Voltages**MOD-4DIX, MOD-4DIX-24, MOD-4DIX-PB**

	Voltage	Resistance
Input A	4.8	2.4
Input B	2.4	1.2
Input C	1.2	0.6
Input D	0.6	0.3

MOD-5DIX

	Voltage
Input A	2.4
Input B	1.2
Input C	0.6
Input D	0.3
Input E	0.15

MOD-6DIX

	Voltage
Input A	4.8
Input B	2.4
Input C	1.2
Input D	0.6
Input E	0.3
Input F	0.15

Notes: In the view of a constant development of their products, the manufacturer reserves the right for changing technical data and features without prior notice. The consumer is guaranteed against any lack of conformity for 24 months from the time of delivery, according to the European Directive 1999/44/EC. The full text of guarantee is available on request from the seller.