

# DIN RAIL, DC TO DC CONVERTERS



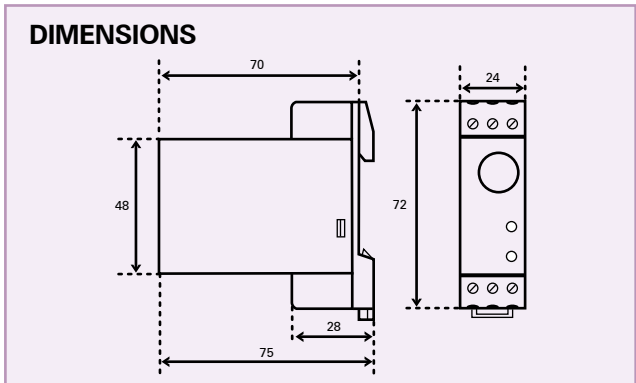
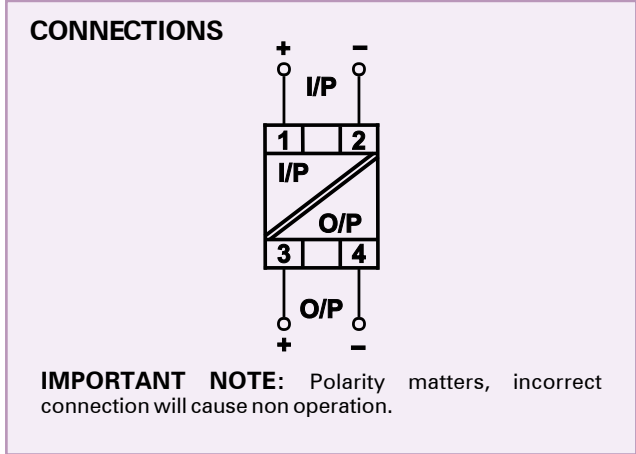
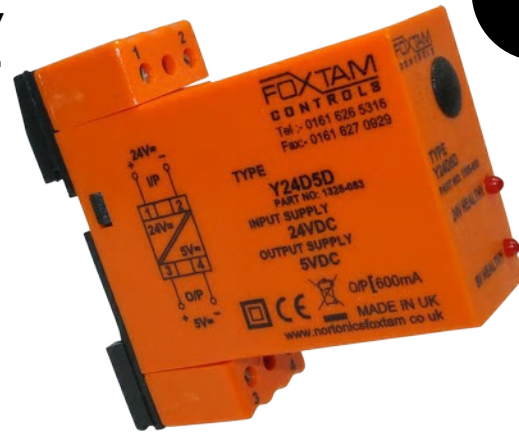
**TYPES: Y24D5D, Y24D12D, Y24D24D, Y48D5D, Y48D12D, Y48D24D.**

## FEATURES

- Din rail mounted
- Input supply healthy LED indication
- Output supply healthy LED indication
- Indefinite short-circuit protection
- I/O Isolation 1500VDC
- Wide input voltage range 9-36VDC & 18-75 VDC
- Outputs 5VDC, 12VDC, 24VDC
- 6 Watt outputs

## DESCRIPTION

Din rail mounted DC/DC converters with a wide ranging input supply. High efficiency operation and low output noise. These DC/DC converters feature separate LED indication for healthy input & output supplies. All terminal details along with CE mark is clearly marked on the side of the housing.



## ORDERING INFORMATION

Type	Input Voltage	Output Voltage
Y24D5D	9-36VDC	5VDC
Y24D12D	9-36VDC	12VDC
Y24D24D	9-36VDC	24VDC
Y48D5D	18-75VDC	5VDC
Y48D12D	18-75VDC	12VDC
Y48D24D	18-75VDC	24VDC

## SPECIFICATIONS

### Input Supply

Nominal Input:	24VDC or 48VDC
Input Voltage Range:	9-36VDC or 18-75VDC
Input Current at No Load:	24V Input, 20mA Typ. 48V Input, 10mA Typ.
Input Current at Full Load:	24V Input, 300mA Typ. 48V Input, 150mA Typ.
Surge Voltage:	24V Input, 50V Max 48V Input, 100V Max
Reverse Voltage Protection:	1A MAX

### Output Supply

Output Voltage/Current:	5VDC/1.2A 12VDC/500mA 24VDC/250mA
Output Power:	6 Watt
Voltage Accuracy:	±2%
Regulation:	Vin Min to Vin Max 0.5% Load variation 0-100% 1.2%
Ripple % Noise	<60mV PK-PK Typ.
Temperature Coefficient:	±0.02%/K
Output Current Limitation:	>150% of Iout, Constant Current
Short Circuit Protection:	Continuous (Automatic Recovery)
Max Capacitive Load:	5V Output 470uF 12V Output 100uF 24V Output 47uF

### General

Operating Temperature:	-20°C to +65°C
Storage Temperature:	-20°C to +65°C
Load De rating:	5V Output 2.5%/K above 60°C 12V, 24V Output 3.3%/K above 70°C
Humidity:	95% Rel H max
Reliability, Calculated MTBF (MIL-HDBK-217F at +25°C):	>800,000 h
Isolation Voltage I/P-O/P (60sec):	1500VDC
Isolation capacitance:	1,000pF Typ.
Isolation Resistance:	>1,000M Ohm
Switching Frequency:	300kHz typ (Pulse Frequency Modulation)
CE Marked:	Yes
Standards Applied:	EN 55022 Class A IEC/EN60950-1 EN6100-6-3 EN61010-1
Material Housing:	Polycarbonate Auto extinguishable to UL 94V-0
Environmental Compliance:	RoHS 2011/65/EU