

Isolating Signal Converters DIN350 DIN360 & DIN370

- DIN350 – AC Current input isolating signal converter
 DIN360 – AC Voltage input isolating signal converter
 DIN370 – Isolating signal converter with 24V DC transmitter power supply

Function: Conversion of an input signal into an isolated DC Current or Voltage output. Each of the DIN350, DIN360 and DIN370 instruments still maintain 3 port isolation with the input and output circuits being powered from separate secondaries of the transformer.



AlphaDIN
CONVERTERS

SPECIFICATIONS

Please note that the following are typical ranges. We also manufacture instruments to cater for other ranges, within limitations detailed below. All instruments come with span and zero potentiometers for fine tuning on site.

INPUTS:

DIN350

AC Current True RMS Range

0 to 1 Amp AC into 220 mOhms
 0 to 5 Amp AC into 30 mOhms

DIN360

AC Voltage True RMS Range

0 to 1 Volt AC into 5K ohms
 0 to 2 Volt AC into 10K ohms
 0 to 5 Volt AC into 25K ohms
 0 to 10 Volt AC into 50K ohms
 0 to 20 Volt AC into 100K ohms
 0 to 50 Volt AC into 250K ohms
 0 to 100 Volt AC into 500K ohms
 0 to 250 Volt AC into 1M ohms
 Minimum span: 100mV
 Maximum span: 300 Volts

AC Frequencies

Minimum 20 Hz
 Maximum 10K Hz

DIN370

mA Input with Integral Transmitter Power Supply

4 to 20mA into 62 ohms
 Transmitter supply: nominal 24 Volt DC at 25mA max

OUTPUTS:

DC Current

0 to 10mA into 10 to 2000 ohms
 4 to 20mA into 10 to 1000 ohms
 Other ranges as required
 Minimum span 1mA
 Maximum span 20mA

DC Voltage

0 to 1 Volt into 100 ohms minimum
 0 to 10 Volts into 1000 ohms min
 Other ranges as required
 Minimum span 1 Volt DC
 Maximum span 10 Volts DC
 Optional extra:
 -10 to +10 Volts into 10K ohms min

Input/Output/Supply Isolation

600 Volt > 20M ohms

SUPPLY:

Power Supply Voltage

User selectable
 115 Volt AC $\pm 15\%$ 50/60 Hz
 230 Volt AC $\pm 15\%$ 50/60 Hz

Power Required

3VA Maximum

Pilot Light

Red LED indicates Power ON

GENERAL:

Linearity Error

Proportional to input $\pm 0.1\%$ of span

Temperature Coefficient

$\pm 0.1\%$ of span / $\Delta 10^\circ\text{C}$

Operating Temperature Range

0 to $+50^\circ\text{C}$

Storage Temperature Range

-20 to $+60^\circ\text{C}$

Operating Humidity Range

0 to 95% RH non-condensing

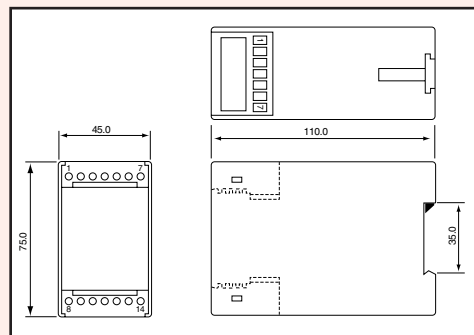
Storage Humidity Range

0 to 95% RH non-condensing

Weights

DIN350	345 gms
DIN360	345 gms
DIN370	310 gms

MECHANICAL DETAILS



TERMINATION DETAILS

DIN350/DIN360

Terminal

- | | |
|---|-----------|
| 1 | Input ~ |
| 2 | Input ~ |
| 3 | EMC Earth |
| 4 | Unused |

DIN370

- | | |
|---|-------------------------|
| 1 | Unused |
| 2 | -ve side of transmitter |
| 3 | Unused |
| 4 | +ve side of transmitter |

Common

- | | |
|---|--------|
| 5 | Unused |
| 6 | Unused |
| 7 | Unused |

Terminal

- | | |
|----|------------------------------|
| 8 | Output -ve |
| 9 | Output +ve |
| 10 | Unused |
| 11 | Unused |
| 12 | 230 Volt $\pm 15\%$ 50/60 Hz |
| 13 | 115 Volt $\pm 15\%$ 50/60 Hz |
| 14 | Neutral |

ORDERING DETAILS

- a) Give identification code, i.e. DIN350
 b) Give details of input signal, both type and range, i.e. 0 to 1A AC
 c) Give details of output required, both type and range, i.e. 4 to 20mA



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