

Loop Powered Isolator MIN310

Function: A 4 to 20mA signal isolator that requires no external power supply. The power for the isolator is derived from the input loop. Typically the MIN310 could be used to provide a second isolated 4 to 20mA from an existing isolated loop. This would then allow two non-isolated inputs (e.g. an RTU input and a local indicator input) to monitor the same 4 to 20mA loop. If the input loop was not isolated you would need to use either a BM320 (24 Volt DC powered) or a BD320 (230/115 Volt AC powered) dual output isolator. The MIN310 can also be used as an isolator in a 4 to 20mA output loop from a non-isolated transmitter.



AlphaMINI
CONVERTERS

SPECIFICATIONS

INPUTS:

DC Current
4 to 20mA

Overload Capacity
± 50mA

NB

The MIN310 is fitted with span and zero potentiometers and the instrument can therefore be site calibrated

OUTPUTS:

DC Current
4 to 20mA into 100 to 1K ohms

Input/Output Isolation
600 Volt > 20M ohms

Voltage Drop

Maximum voltage drop at 20mA output into 1K ohm load=
2.5 Volts across MIN310 plus
20 Volts from 20mA into 1K ohm load
Therefore 22.5 Volts Maximum
If load was 500 ohm then voltage drop is 2.5V plus 10v from 20mA into 500 ohm
i.e 12.5V maximum

Accuracy

0.5% of span

GENERAL:

Temperature Coefficient
±0.1% of span / Δ10°C

Operating Temperature Range
0 to +50°C

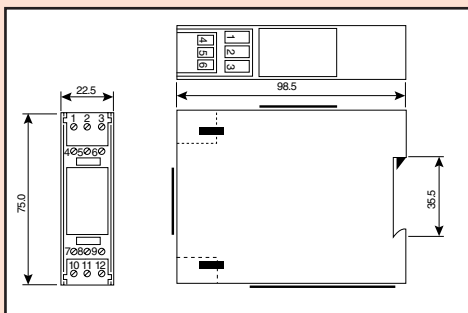
Storage Temperature Range
-20 to +60°C

Operating Humidity Range
0 to 95% RH non-condensing

Storage Humidity Range
0 to 95% RH non-condensing

Weight
108 gms

MECHANICAL DETAILS



TERMINATION DETAILS

Terminal	
1	Unused
2	Unused
3	Unused
4	Input -ve
5	Input +ve
6	Earth

Terminal	
7	Output -ve
8	Output +ve
9	Earth
10	Unused
11	Unused
12	Unused

ORDERING DETAILS

a) Give identification code, i.e. MIN310



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