

Datasheet

Single Isolation Amplifier ISO 1

Art.-Nr.: 952101



1. Special Features
2. Technical Specifications

1. Special Features

The ISO 1 Single Isolation Amplifier is housed in a C-rail enclosure, ensuring safe operation in harsh industrial environments. It is particularly suitable for acquiring output currents and voltages from rectifier units. Setpoint values from a computer can also be transmitted with galvanic isolation. The amplifier operates in bipolar mode.

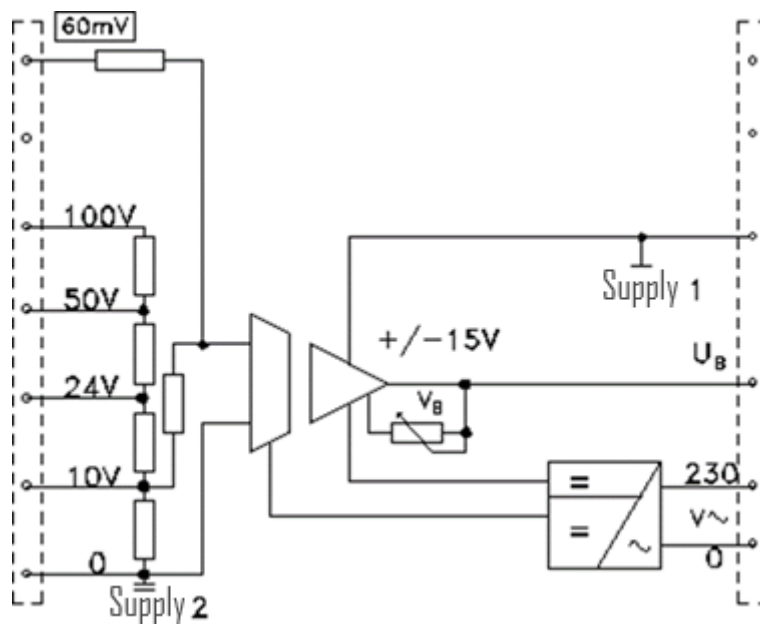
1.1 60 mV - Isolation Amplifier

A 60 mV shunt is connected to this input. A positive input voltage results in a positive output voltage:

$$U_e = + 60\text{mV} \rightarrow U_a = + 5.0\text{V}$$

1.2 Voltage Isolation Amplifier

For different device voltage levels, internal voltage dividers are available: 10 V, 24 V, 50 V, 100 V. Fine adjustment of the amplification can be made at V_B .



2. Technical Specifications

Supply Voltage	230 V~ ± 10 %
Power Consumption	4 VA
Test Voltages	
Mains to inputs and outputs	4 kV _{eff}
Recurrent test voltage	3,1 kV _{eff}
Input – Output	4 kV =
Creepage distances	
Mains to Input/Output	12 mm
Input – Output	6 mm
Linearity	= 1%
Frequency Response	5 kHz
Output signal slew rate in response to input pulses	100 V/ms
Safety Transformer	VDE 551
Dimensions W × H × D	75 x 75 x 113 mm
Weight	350 g
Ambient Temperature	0... 55° C

60mV - Isolation Amplifier

Input Voltage	± 60 mV
Input Current	± 3 mA
Maximum DC Input Voltage	± 1 V
Output voltage adjustable from	± 5,0 V ± 4... 6 V
Output Current	± 20 mA

Voltage Isolation Amplifier

Input Voltages	± 10 V; 24 V; 50 V; 100 V
Input Current	± 3 mA
Maximum DC Input Voltage	2,5 x U _e
Output voltage adjustable from	± 10,0 V ± 6... 12 V
Output Current	± 20 mA