

Type: UISA and UISB

FEATURES

B1 B3 ISOLATION ISOLATION AMPLIFIER INPUT Ø OFFSET

Ø GAIN

<u>00000</u>0 ←35.0 mm→

- Galvanic separation > 4kV
- 16 programmable input ranges

75,0 mm

100.0 mm

- 8 programmable output ranges
- · Excellent accuracy and linearity

CONNECTION DIAGRAM Rail mounting



OUTPUT CHARACTERISTICS





Output: 0 - 20 mA, 0 - 1 V, 0 - 5 V, 0 - 10 V Output: 4 - 20 mA, 0.2 - 1 V, 1 - 5 V, 2 - 10 V

Description:

The isolation amplifier UISA is developed to meet high demands for accuracy, quality and flexibility. With 16 selectable DC voltage inputs and 8 selectable standard outputs, it covers a broad range of applications. As an option, the units can be supplied with adjustable gain and offset. The gain adjustment can be set to expand 10% of the input range to the full output range, and the offset can offset the range up to \pm 100%. By using the full offset an increasing signal on the input, can be converted to a decreasing signal on the output. UISB is a reduced version with 4 to 20 mA output only.

Operation:

By means of a high performance linearized optic transmission (class. 0.2), the input and the output is galvanic separated with an isolation voltage of more than 4kVac. The UISA and UISB is designed to be used with a range of dc and ac supply voltages, that all include galvanic isolation of more than 4kVac from the supply to both the Input and the output circuitry.

Application:

To interface and monitor DC voltages and convert the actual voltage to a standard signal being used as an input to a PC, a PLC or any other electronic device for control or alarm purpose.

PROGRAMMABLE FEATURES



Web:

Mail:

SPECIFICATIONS

ORDERING INFORMATION

INPUT		EXAMPLE:	UISA 3048 B230 D A 3 C
Programmable with dipswitch Version 3048	0 to 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420,450, and 480Vdc Max. Input 630Vdc	TYPE 8 selectable outputs Fixed output: 4-20mA	
Adjustable type "A" Offset potmeter. Gain potmeter.	± 100 % off full scale. 10 - 110 % off full scale.	INPUT Set range from 30V to 480V	3048
Input resistance	B1 to B3 Approx. 3.0 MΩ	SUPPLY VOLTAGE 18-360 VDC and 20-264VAC 20-28 VAC	E400 B024
PERFORMAMCE PARAMETERS	6	99-140 VAC	B110
TIMING		198-264 VAC	B230
Response time ELECTRICAL	< 100 msec.	342-484 VAC	B400
Precision	Class 0.5 according to DIN / EN60688	ADJUSTMENT	
Linearity	< 0,2 %	Input offset & gain adjustable	A
Ripple	< 0.5 % pp		
Temp. dependence Supply dependence	± 0.05 % / % °C ± 0.01 % / % ΔU	Input offset & gain fixed	D
		HOUSING	
OUTPUT		Pail mounting (without transformer)	
Programmable with	Range Load		
dinswitch	Range Eodu	SIZE	
	0 - 20 mA Max 0 500	35 mm	3
	4 - 20 mA Max 0 500		0
	0 - 1 V Min.Q 100	CODE END	С —
	0.2 - 1 V Min. Ω 100		- 1
	0 - 5 V Min.Ω 250		
	1 - 5 V Min. Ω 250		
	0 - 10 V Min. Ω 1000		
	2 - 10 V Min. Ω 1000		

The output amplifier is protected against open and short circuit.

SUPPLY

UPPLY			
AC and DC	18-360 VDC and 20-264 VAC		
with isolated switchmode supp	oly		
AC supply range	24 V (From 20 to 28 V)		
with transformer	110 V (From 85 to 127 V)		

ci	230 V (From 187 to 264 V) 400 V (From 323 to 457 V)	
nge	45 to 440 Hz (transformer)	
nption	2.5 VA, 1.1 W	

Frequency range Power consumption

GENERAL

Temperature range	- 25 °C to + 55 °C	
Humidity	Up to 90 % RH non-condensing	I
Dielectric test voltage	Between input and output	4000 VAC
-	Between input and supply	4000 VAC
	Between supply and output	4000 VAC
Weight	0.12 kg	

International Standards

CE

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EN50081 - Emission
EN50082 - Immunity
EN60255 - Electrical Relays
EN60688 - Measuring transducers