PRO U33  3IN1 AC Voltage  Transducer

Product Description
Pro Series Transducers for Electrical Quantities, fundamental devices for process automation. All our instruments fulfill all important requirements and regulations concerning electromagnetic compatibility and safe isolation (IEC688-1992 standard and GB/T 13850-1998 standard). The devices have been developed, manufactured and tested in accordance with Quality Assurance System ISO 9001.

Technical Specification
Accuracy: Class0.2，0.5
Auxiliary Power Supply: 85V~265VDC/AC 24V~80VDC/AC
Stability: Annual Change Rate 0.2%
Input Overload Capacity:
- Continuous Overload Capacity ≤1.5X
- Transient Overload Capacity Voltage Limit≤3X  Current Limit≤50X
Output
- Constant Voltage Output, Load Resistor Rext≥250Ω
- Constant Current Output, Load Resistor Rext≤500Ω

Rext = ∞ Voltage≤20V
Alternating Wave: ≤18mV(Peak-Peak)
Response Time: ≤300ms
Power Consumption: <3VA
Striking Voltage: ≤2.5kV
Material of Housing: Lexan 940, Flammability acc. to UL 94V0
Operating Temperature: -10℃~+55℃
Storage Temperature: -40℃~+85℃
Relative Humidity of Annual Mean ≤90%RH
Installation: DIN 35mm Rail
Size: 105mm×69mm×110mm
Guaranty Period: 2 years

PRO U33  Theory
The 3in1 AC voltage transducer is a combination transducer that integrates three U31 transducers into 1 housing. It takes three phase voltage inputs and provides three separate isolated outputs.

Fig.1. Block Diagram for U31 AC Voltage Transducer

Technical Data
Input: 0V~100V/120V/220V/380V/500V/600V
Output: 4mA~20mA, 0mA~1mA, 0mA~20mA, 0V~1V, 0V~5V, 0V~10V

Fig. 2. Wiring Diagram

UA, UB, UC: Input Voltage Variables
UH: Auxiliary Power Supply
OA, OB, OC: Output in Correspondence to UA, UB, UC
COM: Common Terminal

Fig. 3. Dimensional Drawings