

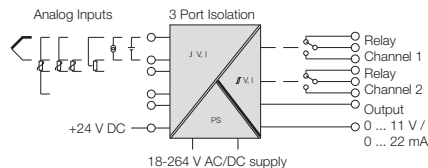
Signal Conditioners

Universal Signal Conditioner

Active Converter, 3-Way, Universal

- Universal inputs
- Programmable with PC, download software on www.ab.com
- Loop-powered or passive mA input
- AC or DC supply

931U-C9C7C-BC



| | | |
|---------------------------------|---|----------------------|
| Specifications | Active Converter, 3-way, Universal | |
| Standards Compliance | UL 508, UL 1604, CSA C22.2 No. 142-M1987, CSA C22.2 No. 213-1987, EN 50178:1997, EN 60079-0:2006, EN 60079-15:2005, EN 61000-6-1:2007, EN 61000-6-2: 2005, EN 61000-6-3:2007, EN 61000-6-4:2007 | |
| Certifications | cULus (Class 1, Div. 2, Groups A, B, C and D, NRAG/7.E10314), CE, ATEX (Class 1, Zone 2, DEKRA 11ATEX0015 X) | |
| Input Ratings | | |
| Type, Thermocouple | B, E, J, K, L, N, R, S, T (IEC 60584) | |
| Type, RTD | PT100, PT1000, (EN 60571) Ni100, Ni1000, (JIS1604), Cu10, Cu25, Cu50, Cu100 (DIN 43760) 2-/3-/4-conductor | |
| Potentiometer | 100 Ω...100 kΩ | |
| Resistance | 10 Ω...5 kΩ | |
| Frequency | 2 Hz...100 kHz | |
| Voltage | -200...500 mV (min. span 4 mV), -20...50V DC (min. span 0.5V) | |
| Current | -20...50 mA (min. span 0.4 mA) | |
| Sensor Supply | 24V DC / 22 mA | |
| Input | Active or Passive | |
| Output Ratings - Analog | | |
| Accuracy | < 0.1 % span (DC, RTD); 0.2 % span (or 1 °C) + CJ error | |
| Temperature Coefficient | < 0.1 % /K (DC, RTD); <0.1% FSR/K + CJ error 0.07 °C/K (Thermocouples) | |
| Voltage | -10...+10V (adjustable - min. span 2.5V) | |
| Current | 0...20 mA (adjustable - min. span 5 mA) | |
| Output Signal During Wire Break | Configurable | |
| Load Resistance Voltage | > 10 kΩ @ 0...10V / > 20 kΩ @ -10...+10V | |
| Load Resistance Current | ≤ 700 Ω | |
| Step Response Time | 50 ms...1 sec (RTD, mV inputs), 110 ms...1 sec (V, mA inputs) | |
| Signal Output | Direct or inverted | |
| Transmit Function | Linear, x _{1/2} , x _{3/2} , x _{5/2} or user-defined curve (101 points) | |
| Output Ratings - Digital | | |
| Type | 2 x 1 CO contact (hard gold plated) | |
| Max Switching Voltage | 250V | |
| Continuous Current | 3 A | |
| Output | Active | |
| General Specifications | | |
| Supply Voltage | 18...264V AC/DC | |
| Power Consumption | < 3.5 W | |
| Operating Temperature | -40 °C...+70 °C | |
| Storage Temperature | -40 °C...+85 °C | |
| Rated Insulation Voltage | 300V | |
| Impulse Withstand Voltage | 6 kV | |
| Isolation Voltage | 2.5 kV | |
| Connection Type | Screw | |
| L x W x D (mm) | 92.4 x 45 x 112.4 | |
| Surge Category | III | |
| Pollution Severity | 2 | |
| Signal Conditioner | Cat. No. | Pkg. Quantity |
| | 931U-C9C7C-BC | 1 |

Typical functions

