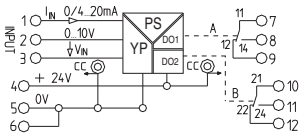
Isolator, 3-Way, Limit Value Monitoring

- Three-way Isolation
- Low Trip/ High Trip
- Failsafe/Non-Failsafe
- Two relay outputs

931S-C2R1D-DC2R

Specifications	***Isolator, 3-Way, Limit Value Monitoring***
Wiring Diagram	
Standards Compliance	UL 508, CSA C22.2 No. 142-M1987, EN 50178:1997, EN 61000-6-1:2007, EN 61000-6-2: 2005, EN 61000-6-3:2007, EN 61000-6-4:2007
Certifications	cULus (NRAQ/7.E113724), CE
Input Ratings	
Voltage	0...10V
Current	0...20 mA / 4...20 mA
Input Resistance (voltage/current)	≥ 100 kΩ / ≤ 110 Ω
Input	Passive
Output Ratings	
Contact Complement	2 change-over contacts
Contact Material	AgNi 90/10
Switching Thresholds	1...90% (independently for channel 1 and channel 2)
Hysteresis	1...10% (independently for channel 1 and channel 2)
Switching Voltage, Max	253V AC
Step Response Time	≤ 62 ms
Continuous Current	3 A
Temperature Coefficient	≤ 500 ppm/K
Status Indicator	LED green ON: OK, LED red ON: alarm (per channel)
Output	Relay
General Specifications	
Supply Voltage	24V DC ± 25 %
Power Consumption	typically 1 W both relays picked up
Current-carrying Capacity of Cross-Connect.	≤ 2 A
Operating Temperature	-10 °C…+55 °C
Storage Temperature	-20 °C…+85 °C
Default Settings	channel A/B: low trip and FAILSAFE
Rated Voltage	300V
Impulse Withstand Voltage	4kV
Isolation Voltage Input - Output	$2kV_{eff}$ /5 s
Surge Category	III
Pollution Severity	2
Connection Type	Screw
L x W x D (mm)	92.4 x 17.5 x 112.4

Signal Conditioner	Cat. No.	Pkg. Quantity
	931S-C2R1D-DC2R	1

Switch position/setting options

	SW 1			
function	**1**	**2**	**3**	**4**
Channel A High Trip	■			
Channel A Low Trip	□			
Channel B High Trip		■		
Channel B Low Trip		□		
FAILSAFE, Channel 1 & 2			□	□
NON FAILSAFE, Chan. 1 & 2			■	■

■ = on
□ = off

NON FAILSAFE: The relay picks up when the alarm is trigered

FAILSAFE: The relay drops out when the arlarm is triggered. An alarm is also triggered in the FAILSAFE mode, if for example, the operating voltage to the moduls fail

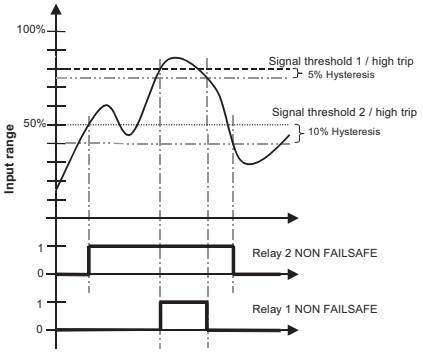
Low Trip: Alarm is triggered if the signal is undershoot the threshold.

High Trip: Alarm is triggered if the signal is overshoot the threshold.

Signal threshold: Adjustments of the signal threshold (1...90)% are made for channel 1 with the potentiometer P1, and separately for channel 2 via potentiometer P2.

Hysterese: Adjustments of the hysteresis (1...10)% are made for channel 1 with the potentiometer P3, and separately for channel 2 via potentiometer P3.

Example 1



Example 2