

**Isolator, 3-Way, Voltage Monitoring**

- Three-way isolation
- Monitoring of single-phase systems up to 260V AC/DC
- 4 input ranges selected by DIP switches
- One relay with change-over contact
- Switchable hysteresis
- Switch adjusted via potentiometer
- Reset input

**931S-V1R1D-MC1R**

Specifications	<b>Isolator, 3-Way, Monitoring</b>	
Wiring Diagram		
Standards Compliance	EN 50178UL 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	
<b>Input Ratings</b>		
Voltage	24...70 / 70...140 / 140...210 / 210...260V AC / DC	
Frequency	50...60 Hz	
Max Voltage	260V AC / DC	
Input	Passive	
<b>Output Ratings</b>		
Switching Voltage, Max	250V AC	
Switching Current, Max	8 A	
Continuous Current	3 A	
Step Response Time	< 300 ms	
Temperature Coefficient	≤ 250 ppm/ K	
Accuracy	< 0.3% of set range	
Hysteresis	24...70V AC, small = 5V / large = 10V	
Status Indicator	LED green = OK / LED red/yellow = alarm status	
Output	Relay	
<b>General Specifications</b>		
Supply Voltage	from the measuring circuit	
Reset Input Voltage Range	18V DC...30V DC	
Minimum Pulse Length	700 ms	
Operating Temperature	-10 °C...+55 °C	
Storage Temperature	-20 °C...+70 °C	
Default Settings	DIP switches: ON = 1,2,5,8 / OFF = 3,4,6,7	
Rated Insulation Voltage	300V	
Impulse Withstand Voltage	4 kV	
Isolation Voltage Input - Output	2 kV <sub>eff</sub>	
Surge Category	III	
Pollution Severity	2	
Connection Type	Screw	
L x W x D (mm)	96.5 x 17.5 x 112.5	
Signal Conditioner	Cat. No.	Pkg. Quantity
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Input	1	2	3	4	5	6	7	8
24 V AC/DC...70 V AC/DC			■	□	□	□		
70 V AC/DC...140 V AC/DC		□	□	□	■			
140 V AC/DC...210 V AC/DC			□	□	■	□		
210 V AC/DC...260 V AC/DC				□	■	□	□	
<b>Trip</b>								
High Trip		■						
Low Trip		□						
<b>Memory</b>								
Memory on			□					
Memory out				■				
<b>Hysteresis</b>								
Hysteresis small				□				
Hysteresis large					■			
<b>Input voltage</b>								
AC voltage								■
DC voltage								□

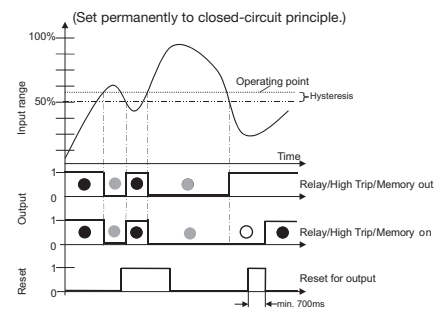
■ = on  
□ = out

**Status indicator**

- Set value not exceeded.
- Alarm status.
- Alarm status can be reset because set value has been exceeded.

**Abb.1: Overvoltage monitoring**

Alarm set to "high trip"  
 (Set permanently to closed-circuit principle.)



**Abb.2: Undervoltage monitoring**

Alarm set to "low trip"  
 (Set permanently to closed-circuit principle.)

