

# Series 27 Intrinsically Safe Control

- ▶ Cannot Ignite Flammable Materials
- ▶ Solid State Reliability
- ▶ Internal Surge Suppression
- ▶ SPDT Contacts
- ▶ Can Be Used for Single Level or Differential Service

## UL and CSA Approved

Series 27 is UL approved for use in Class I, Groups A, B, C, D; Class II, Groups E, F, G; and Class III hazardous locations. SPDT output contacts. UL Pilot Duty rated.

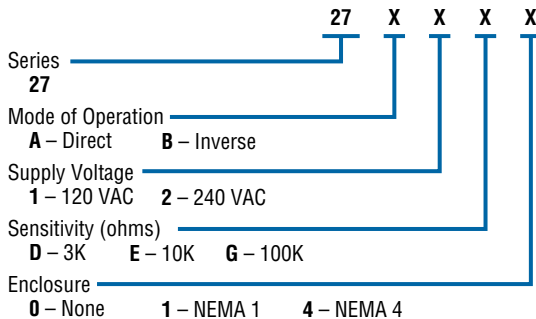
CSA Certified for Class 1, Groups A, B, C and D; Class II, Groups E, F and G; Class III

## Specifications

<b>Contact Design</b>	1 N.O. & 1 N.C. (1 form C)
<b>Contact Rating (24/120/240VAC)</b>	8 amp Resistive
<b>Mode of Operation</b>	Direct/Inverse, factory set
<b>Sensitivity</b>	0-100K ohm, factory set
<b>Primary Voltage</b>	120 VAC, 240 VAC (+10%/-15%) 50/60Hz
<b>Secondary Voltage</b>	11 VAC, 2.3 mA
<b>Temperature</b>	-40°F to +150°F (-40°C to +65°C)
<b>Approvals</b>	U.L. 913 File # E44570; CSA #2174246
<b>Connections</b>	All screw type connections

## How to Order

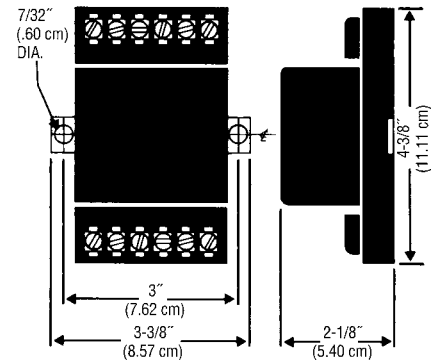
Use the **Bold** characters from the chart below to construct a product code.



## Applications

- Hazardous Atmospheres
- Pumps
- Waste Treatment
- Alarms
- Sewage
- CP Industry

## Dimensions



# Series 47 4-Channel Relay, Alarm Panel Control

- ▶ Solid State Reliability
- ▶ 0-50K Ohm/cm Sensitivity
- ▶ Alarm Contacts for Audible and Visual Alarms
- ▶ 4 Channel Relay
- ▶ Removable Terminal Strips
- ▶ Inverse or Direct Acting Field Selectable
- ▶ U.L. Listed

Series 47 controls offer complete alarm panel control in a single package. Powered output contacts allow quick connection of lights and audible alarms. Test and silence functions are built in. Unit also carries one SPDT master alarm contact for remote alarm activation.

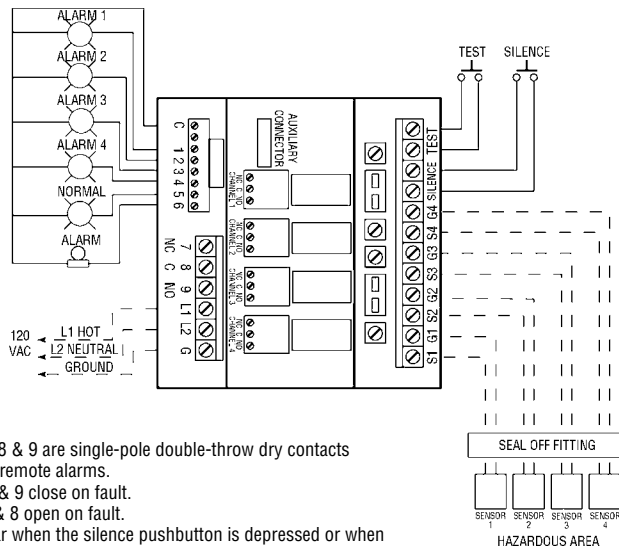
Approved for Class I, II, III, Division 1, Groups C, D, E, F, G hazardous atmospheres, Series 47 controls supply four channels which can be used with conductivity liquid level sensors or dry contact sensors.

This device functions as an alarm or single point control. Field adjustable for direct or inverse operation, it can operate separate visual alarms with a common audible alarm channel. Silence and test terminals are standard. For additional lights, alarms or outputs, auxiliary contacts must be ordered.

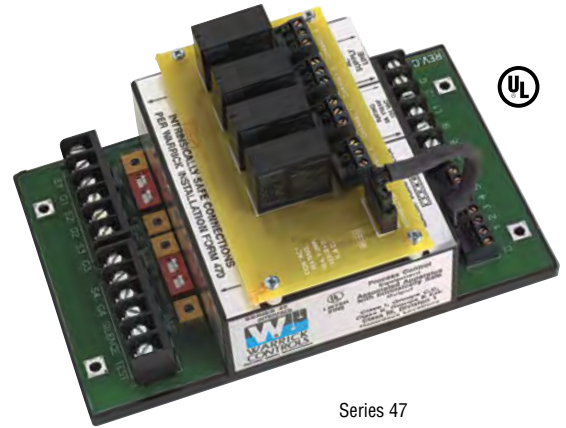
### Alarm Specifications

<b>Contact Design</b>	SPDT 1 N.O. & 1 N.C.
<b>Master Alarm Contact Rating (30VDC, 120/240VAC)</b>	5 amp Resistive, 1/10 hp
<b>Indicator Contacts</b>	Powered 120 VAC 25mA
<b>Indicator Contacts for Audible Alarm</b>	Powered 120 VAC 5A
<b>Auxiliary Contacts (optional)</b>	SPDT 120 VAC 10A (not powered)
<b>Sensitivity</b>	0-50K ohm maximum specific resistance
<b>Primary Voltage</b>	120 VAC (+10%/-15%) 50/60 Hz
<b>Secondary Voltage</b>	12 VAC @ 6mA RMS
<b>Temperature</b>	-40°F to +150°F (-40°C to +65°C)
<b>Approvals</b>	U.L. 913 File # E44570

### Wiring



- Notes:
1. Terminals 7, 8 & 9 are single-pole double-throw dry contacts designed for remote alarms.
  2. Terminals 8 & 9 close on fault.
  3. Terminals 7 & 8 open on fault.
  4. Contacts clear when the silence pushbutton is depressed or when the fault condition is cleared.

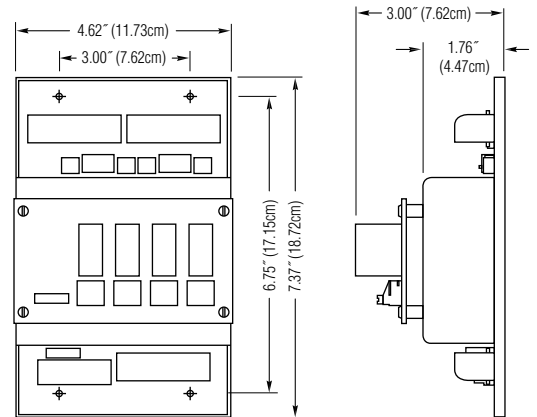


Series 47

### Applications

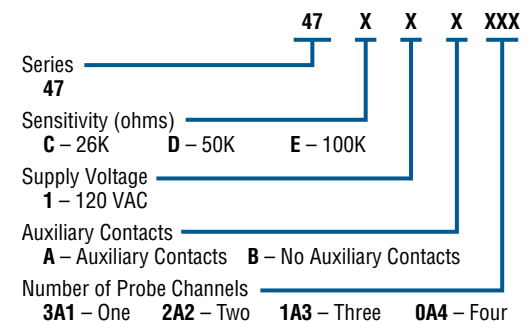
- Hazardous Atmospheres
- Monitoring and Control
- Storage Tank Alarm Panels
- Input for Computer
- Input for Phone Dialer

### Dimensions



### How to Order

Use the **Bold** characters from the chart below to construct a product code.



See Our Interstitial Tank Monitoring Products on page A-22.



# Series 67 Multi-Function Control Duplex Pump System Control

- ▶ Inverse or Direct Acting, Field Selectable
- ▶ Solid State Reliability
- ▶ Compact Size
- ▶ Four Independent Channels – 2 Single, 2 Differential
- ▶ Field Adjustable, Sensitivity and Mode Selection
- ▶ LED Channel Indicators
- ▶ Built-in Silence/Acknowledge Circuit
- ▶ U.L. “Intrinsically Safe”

Warrick's Series 67 four channel level control is an ideal solution to liquid level problems in hazardous applications for the sewage, waste water, chemical and groundwater remediation industries.

Connected to floats or conductance probes this versatile control provides simplex or duplex pump/solenoid valve control; automatic or manual alternation; high and/or low level alarms with silence/acknowledge capabilities.

The Series 67 can be used in hazardous applications as an intrinsically safe interface to non-powered contacts and sensors such as push button operators, limit, temperature, pressure and vacuum switches.

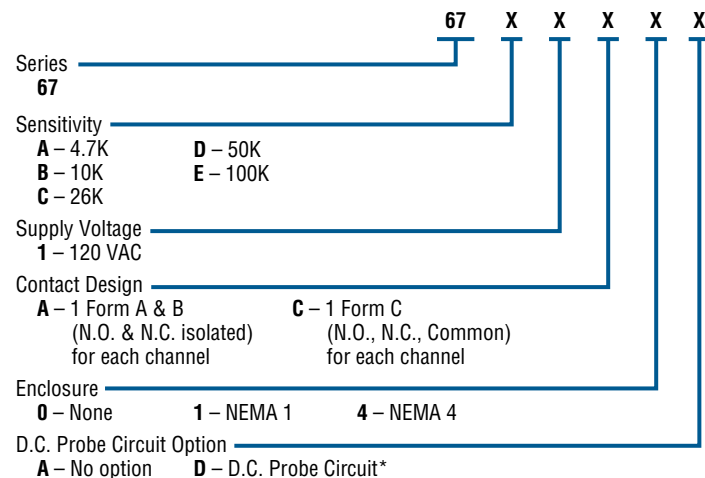
Designed for hazardous applications, its low cost, integrated features and compact size also make it ideal for non-hazardous applications.

## Specifications

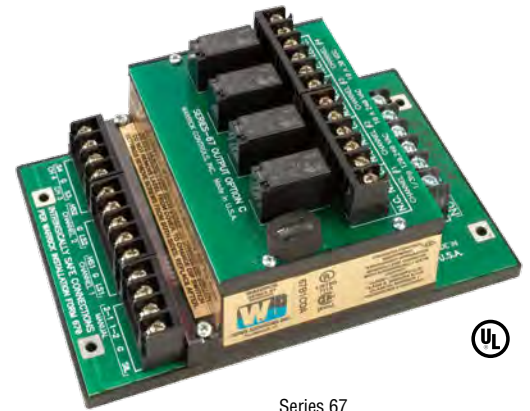
<b>Contact Design</b>	Standard N.O., N.C. (form C); Optional N.O., N.C.
<b>Contact Rating (30VDC, 120/240VAC)</b>	10 amp (style C); 5 amp (style A)
<b>Primary Voltage</b>	120 VAC, 50/60 Hz
<b>Secondary Voltage</b>	12 VAC @ 6mA RMS
<b>Sensitivity</b>	4.7K - 100K ohms maximum specific resistance, factory set
<b>Temperature</b>	-40°F to +150°F (-40°C to +65°C)
<b>Approvals</b>	U.L. 913 File # E44570

## How to Order

Use the **Bold** characters from the chart below to construct a product code.



\*Eliminates short cycles

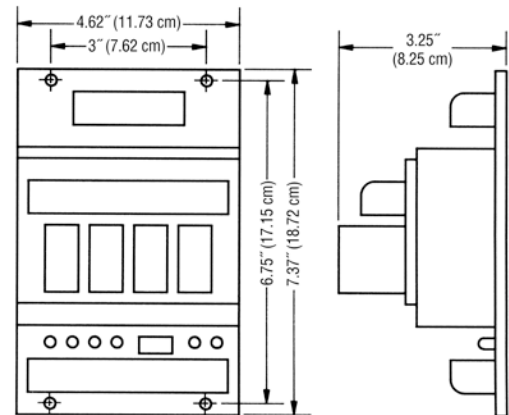


Series 67

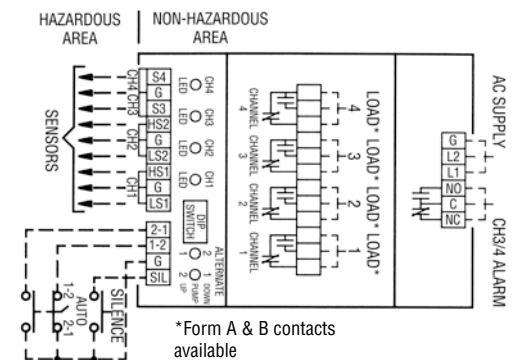
## Applications

- Hazardous Atmospheres
- Multiple Functions
- Simplex or Duplex
- High/Low Level Alarms
- Auto or Manual Alternation
- Pump/Solenoid Valves
- Sewage Lift Stations
- Wastewater Treatment
- Chemical Plants
- Groundwater Remediation

## Dimensions



## Wiring



See Our Interstitial Tank Monitoring Products on page A-22.

