

Octal Plug-in Conductive Liquid Level Controls

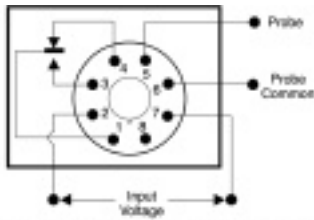
✓ **Isolated 12VAC Probe Voltage Reduces Probe Electroplating**



1.78" x 2.39" x 2.90"
(45x61x74mm)



Connection Diagram



RELAY CONTACTS ARE ISOLATED FROM INPUT VOLTAGE

LLC4 Series (Single Probe Sensing)

- 8 Pin Octal Plug Construction
- Adjustable Sensing up to 250,00 Ohms
- Time delay to prevent rapid cycling of valve or pump
- Isolated AC Voltage on the Probes
- 4 Amps Resistive SPDT Isolated Contacts
- Moisture Protected Circuitry
- 120 VAC Input Voltage

Drain Mode: When the liquid is not in contact with the probe, the output relay is de-energized. When the liquid touches the probe, the time delay begins. At the end of the time delay, the relay energizes until the liquid no longer touches the probe.

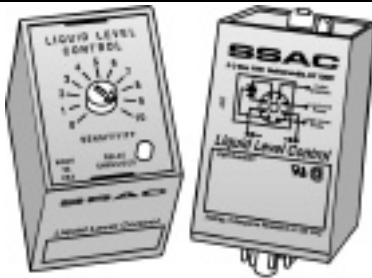
Fill Mode: With the liquid in contact with the probe, the output relay is de-energized. When the liquid no longer touches the probe, the time delay begins. At the end of the time delay, the relay energizes and remains energized until the liquid touches the probe.

Mode	Voltage	Time Delay	Part Number
Drain	120VAC	10 S	LLC44A10A
Drain	120VAC	60 S	LLC44A60A
Fill	120VAC	10 S	LLC44B10A
Fill	120VAC	60 S	LLC44B60A

Other options and voltages available

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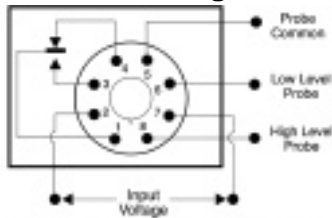
CONTROLS & SENSORS



1.78" x 2.39" x 3.30"
(45x61x84mm)



Connection Diagram



RELAY CONTACTS ARE ISOLATED FROM INPUT VOLTAGE

LLC5 Series (Dual Probe Sensing)

- 8 Pin Octal Plug-in Construction
- Onboard Knob Sensing, 2k to 100K Ohms
- LED Indicator Reduces Adjustment Time
- 24 or 120 VAC Input Voltage
- 5 Amps SPDT Isolated Contacts
- Moisture Protected Circuitry

Fill Mode: When the level falls below the lower probe, the output energizes a pump or valve to restore the liquid to the upper probe.

Drain Mode: When the liquid rises to the upper probe, the output energizes a pump or valve to lower the level to the lower probe.

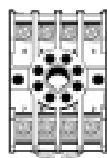
Mode	Voltage	Part Number	In Stock Part Numbers
Drain	24VAC	LLC52AA	
Drain	120VAC	LLC54AA	•
Fill	24VAC	LLC52BA	
Fill	120VAC	LLC54BA	•

Other options and voltages available

Accessories



BZ1
Panel Mount Kit
for use with all
SSAC Plug-in
Time Delay
Relays



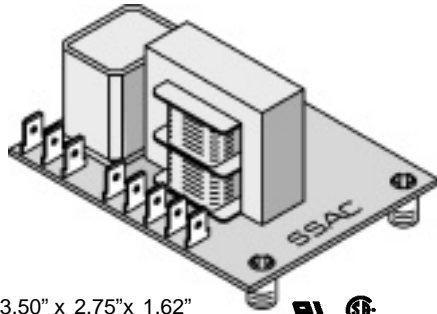
NDS-8
8 Pin Octal Socket
Fits
35mm
DIN Rail



WCC-1138
Liquid Level Control Electrode
WCC-1138-3
Electrode with Common Connection
LLP-24
24" (61cm) Threaded Stainless Steel Probe

Open PC Board Conductive Liquid Level Controls

✓ **Isolated 12VAC Probe Voltage Reduces Probe Electroplating**



3.50" x 2.75" x 1.62"
(89x70x41mm)

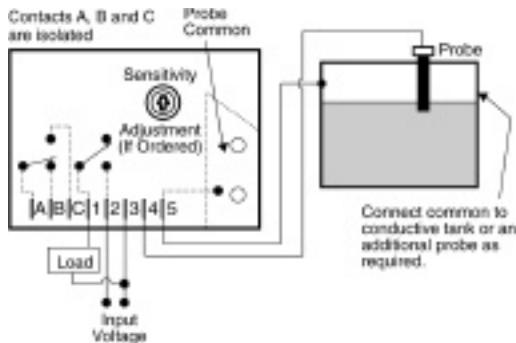
LLC1 Series (Single Probe Liquid Level Control)

- Open PC Board Construction
- Clear Coated Electronics
- Adjustable Sensing up to 250,000 Ohms
- 120 VAC Input Voltage
- Time delay to prevent rapid cycling of valve or pump
- Quick Connect Terminals
- 10 Amps SPDT Isolated & SPST Non-isolated Contacts
- Isolated AC Voltage on the Probes
- 0.38" (9.5mm) Nylon Standoffs, #6 Screw

Drain Mode: When the liquid is not in contact with the probe, the output relay is de-energized. When the liquid touches the probe, the time delay begins. At the end of the time delay, the relay energizes until the liquid no longer touches the probe.

Fill Mode: With the liquid in contact with the probe, the output relay is de-energized. When the liquid no longer touches the probe, the time delay begins. At the end of the time delay, the relay energizes and remains energized until the liquid touches the probe.

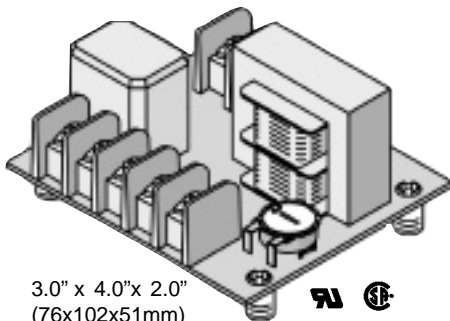
Connection Diagram



Mode	Voltage	Time Delay	Part Number
Drain	120VAC	10 S	LLC14A10AX
Drain	120VAC	60 S	LLC14A60AX
Fill	120VAC	10 S	LLC14B10AX
Fill	120VAC	60 S	LLC14B60AX

Other options and voltages available

Accessories for LLC1 and LLC2 Series	Part Number
Liquid Level Control Electrode (UL)	WCC-1138
Electrode with Common Connection	WCC-1138-3
24 inch (61cm) Stainless Steel Probe	LLP-24



3.0" x 4.0" x 2.0"
(76x102x51mm)

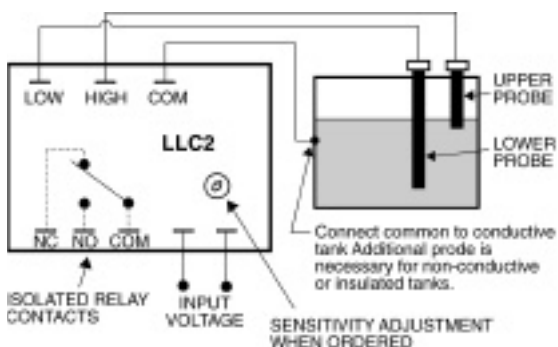
LLC2 Series (Dual Probe Liquid Level Control)

- Open PC Board Construction
- Clear Coated Electronics
- Adjustable Sensing up to 100,000 Ohms
- 120 Models are Available
- 10 Amps SPDT Isolated Contacts
- Isolated AC Voltage on the Probes
- Terminal Block

Fill Mode: When the level falls below the lower probe, the output energizes a pump or valve to restore the liquid to the upper probe.

Drain Mode: When the liquid rises to the upper probe, the output energizes a pump or valve to lower the level to the lower probe.

Connection Diagram



Mode	Voltage	Connection	Mounting Dimensions	Part Number
Drain	120VAC	Terminal Block	3.62" x 2.12" (92x54mm)	LLC24A2AN
Drain	120VAC	Terminal Block	3.5" x 2.5" (89x64mm)	LLC24A2AC
Fill	120VAC	Terminal Block	3.62" x 2.12" (92x54mm)	LLC24B2AN
Fill	120VAC	Terminal Block	3.5" x 2.5" (89x64mm)	LLC24B2AC

Other options and voltages available

Motion Detectors

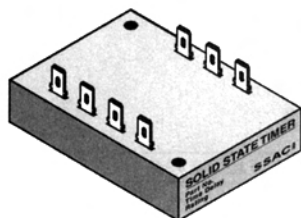
✓ Retriggerable Single Shot for Zero Speed Detection

EIS9 Series (Motion Detector - Zero Speed Switch)

- Isolated Control and Operating Voltages
- Direct Connection to Most Solid State Sensors
- Digital Circuitry $\pm 0.5\%$ Accuracy
- Output Energized During Normal Operation
- 0.2 Seconds to 100 Minutes in 3 Ranges
- 1 Amp Rated Solid State Output
- Popular AC and DC Operating Voltages
- Encapsulated Circuitry

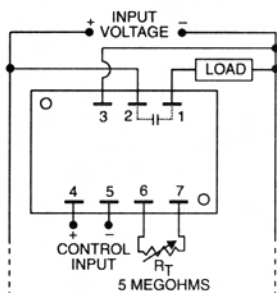
Description: The EIS9 Series of motion detectors (retriggerable single shot) includes 1500VAC isolation between the operating and control voltages. Most solid state output sensors can be connected directly to the EIS9's control input. The EIS9 is a cost effective solution for all OEM applications and for multiple voltage process control applications.

Operation: Upon application of input voltage, the output energizes and the time delay begins. As long as the control voltage is applied and reapplied; the output remains energized. If the control voltage remains ON or OFF for the full time delay, the output de-energizes.



2.5" x 3.5" x 1.2"
(64 x 89 x 31 mm)

Connection Diagram



Operating Voltage	Control Voltage	Time Delay	Part Number	Accessory VTP P/N
120VAC	19 to 144VAC	0.2 to 10 S	EIS94D20B	VTP5R
		1 to 100 S	EIS94D21B	VTP5G
		1 to 100 M	EIS94D24B	VTP5P
24VDC	6 to 18VDC	0.2 to 10 S	EIS93F20B	VTP5R
		1 to 100 S	EIS93F21B	VTP5G

Other options and voltages available

Accessory:

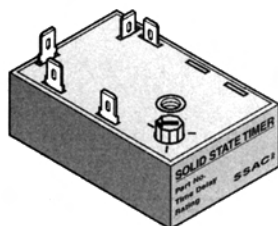
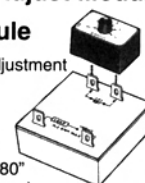
Plug-On Adjust Module

VTP Module

Pushes On Adjustment Terminals

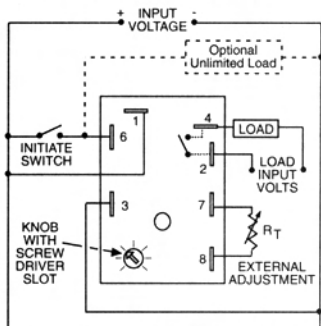
Quick, Easy, Cost Effective

.99" x 1.26" x .80"
(25.1x32x20.3mm)



2" x 3" x 1.5" (51 x 76 x 38 mm)

Connection Diagram



Note: Terminals 7 and 8 are used for external time adjustment when ordered. When fixed delay is ordered, terminals 7, 8 and knob are eliminated.

HRD9 Series (Motion Detector - Zero Speed Switch)

- High Power Relay Output
- 15 Amps UL-30 Amps CSA
- Isolated SPST Contacts
- Normally Energized Output
- Knob Adjustment (Fixed or External Adjust Available)
- 0.2 Seconds to 100 Minutes in 3 Ranges
- Digital Circuitry $\pm 0.5\%$ Accuracy
- AC and DC Operating Voltages are Available
- Encapsulated Circuitry

Description: The HRD9 Series of motion detectors (retriggerable single shot) includes an isolated 15 amp, 1HP rated relay output. This unit is an excellent choice for conveyors, sorting equipment and other machinery where direct control of the motor is desirable.

Operation: With operating voltage applied, the output relay energizes when the initiate switch is closed. As long as the initiate switch is closed, opened, and re-closed, the output remains energized. If the initiate remains closed or open for the full time delay, the output de-energizes.

Operating Voltage	Time Delay	Part Number
24VDC	0.2 to 10 S	HRD9320
	1 to 100 S	HRD9321
	1 to 100 M	HRD9324
120VAC	0.2 to 10 S	HRD9420
	1 to 100 S	HRD9421
	1 to 100 M	HRD9424

Other options and voltages available

Accessory:



35mm DIN Rail Adaptor

For Use With SSAC Timer Modules
(Comes With Hardware)

2.0" x 2.0" (51x51mm)

Part Number:
P1023-20 (S102320-1)