Switch-Pro™ Remote Level Controllers

Overview

CSA approved, the Switch-Pro general purpose level controllers are offered in three configurations for alarms, pump and valve control. The LC40 accepts one level sensor input and provides one 10A relay for high level or low level alarm. The LC41 accepts two level sensor inputs and provides one latching 10A relay for automatic fill or empty control. The LC42 accepts three level sensor inputs with one latching 10A relay output for automatic fill or empty control, and a second non-latching 10A relay for high level or low level alarm.

Features

- Fail-safe relay control of pumps or valves with 0-60 second delay
- Mounts easily in control panel
- Easy setup with LED indicators for sensor, power and relay status
- Connects to any Flowline level switch
- 35mm DIN rail mount or panel mount polypropylene (PP) enclosure with removable terminal strips
- Interfaces directly with any horn, buzzer, valve, etc...
- Invert switch changes relay state from NO to NC without rewiring
- Use LC41, LC42 version for automatic fill/empty operations
- Made in the USA

Switch-Pro LC Series Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Weight (lb)</th>
<th>Supply Voltage</th>
<th>Consumption</th>
<th>Sensor Inputs</th>
<th>Sensor Supply</th>
<th>LED Indication</th>
<th>Contact Type</th>
<th>Contact Rating</th>
<th>Contact Output</th>
<th>Contact Latch</th>
<th>Contact Delay</th>
<th>Ambient Temperature</th>
<th>Enclosure Mounting</th>
<th>Enclosure Material</th>
<th>Classification</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC40-1001</td>
<td>$202.00</td>
<td>1.9</td>
<td>120VAC @ 50-60 Hz (can be field configured for 240V/AC)</td>
<td>5W maximum</td>
<td>(1) two wire level switch</td>
<td>13.5 VDC @ 27mA</td>
<td>Sensor (green), power (green) &amp; relay (red)</td>
<td>(1) SPDT relay (non-latching)</td>
<td>250VAC @ 10A</td>
<td>Selectable NO / NC</td>
<td>N/A</td>
<td>-40°F to 158°F [-40°C to 70°C]</td>
<td>35mm DIN rail or thru-hole panel mount</td>
<td>PP (polypropylene), UL94V0</td>
<td>General purpose</td>
<td>CE (EN61326, EN61010-1); CSA LR 79326</td>
<td></td>
</tr>
<tr>
<td>LC41-1001</td>
<td>$235.00</td>
<td>1.9</td>
<td></td>
<td></td>
<td>(2) two wire level switches</td>
<td></td>
<td></td>
<td>(1) SPDT relay (latching)</td>
<td></td>
<td></td>
<td>Selectable ON / OFF</td>
<td>0-60 seconds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC42-1001</td>
<td>$284.00</td>
<td>1.9</td>
<td></td>
<td></td>
<td>(3) two wire level switches</td>
<td></td>
<td></td>
<td>(2) SPDT relays, (one non-latching, one latching)</td>
<td></td>
<td></td>
<td>Selectable ON / OFF</td>
<td></td>
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*To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number’s web page at www.AutomationDirect.com
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Wiring

**LC40 series:** 1 sensor input, 1 relay output.

Typical Application:
High level or low level alarm

**LC41 series:** 2 sensor inputs, 1 relay output. The relay included is a latching relay.

Typical Application:
Automatic fill or empty

**LC42 series:** 3 sensor input, 2 relay outputs. One relay is latching and the other is a single input relay.

Typical Application:
Automatic fill or empty with high level or low level alarm

**Dimensions inches [mm]**

<table>
<thead>
<tr>
<th>Symbol Key:</th>
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<tbody>
<tr>
<td>Power:</td>
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<tr>
<td>Pump:</td>
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<tr>
<td>Horn:</td>
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<tr>
<td>Valve:</td>
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</tbody>
</table>

Low Level Alarm Output Wiring Example (One level sensor input required):

High Level Alarm Output Wiring Example (One level sensor input required):

Automatic Fill Output Wiring Example (Two level sensor inputs required):

Automatic Empty Output Wiring Example (Two level sensor inputs required):

Level Sensor Input Wiring Example:

* LV10 series can be wired using the White and Black wires for NO operations or the Red and Black wires for NC operations.

Compatible Products

**ProSense Float Level Switches**

**Switch-Tek™ Level Switch Sensors**

See our website www.AutomationDirect.com for complete Engineering drawings.