**Motors and Pump Controls** are used in lift stations, booster stations, treatment plants, water well pumps, and more.

**Motor/Pump Protection** is used in single- and three-phase water well pumps, center pivot irrigation, and aerators.

**Timing Controls** are used in single- and three-phase motors in water well pumps, center pivot irrigation, and in water and wastewater treatment plants.

<table>
<thead>
<tr>
<th>Littelfuse Part #</th>
<th>Product Description</th>
<th>Product Images</th>
<th>Benefits</th>
<th>Features</th>
<th>Competitor Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>201A-AU, 460</td>
<td>Three-phase voltage monitors</td>
<td><img src="image1" alt="Three-phase voltage monitors" /></td>
<td>Protects motors from adverse voltage conditions, which damage the motor windings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MP8000</td>
<td>Bluetooth* overload relay</td>
<td><img src="image2" alt="Bluetooth* overload relay" /></td>
<td>Smart, universal, and enhanced overload relay can communicate directly with smartphones and tablets from Bluetooth. Monitor and control the relay without the need to open the panel.</td>
<td>Stand next to motor—not and relay—and monitor motor startup.</td>
<td></td>
</tr>
<tr>
<td>777-KW/HP-P2</td>
<td>Three-phase voltage and current monitors</td>
<td><img src="image3" alt="Three-phase voltage and current monitors" /></td>
<td>Protects motors from adverse voltage and current conditions that damage the motor windings. Provides underload protection depending on power, which is ideal for pumping applications.</td>
<td>Protects from overloads (of any trip class), underloads, (dry running pumps), low and high voltage, phase loss, phase reversal, and unbalanced voltage and currents.</td>
<td></td>
</tr>
<tr>
<td>ALT115-S-SW</td>
<td>Duplex alternating relay for pumps with one float input</td>
<td><img src="image4" alt="Duplex alternating relay for pumps" /></td>
<td>Alternates between two pumps within each demand cycle to balance the runtime of each cycle.</td>
<td>Input voltage 95-125 VAC (24 VAC and 230 VAC models available). Use in single high level float applications.</td>
<td></td>
</tr>
<tr>
<td>ALT115-X-SW</td>
<td>Cross-connected duplex alternating relay for pumps with two float inputs</td>
<td><img src="image5" alt="Cross-connected duplex alternating relay" /></td>
<td>Alternates between two pumps within each demand cycle to balance the runtime of each cycle.</td>
<td>Input voltage 95-125 VAC (24 VAC and 230 VAC models available). Compact design saves precious panel space, uses 8 pin base. Cross connected DPDT relay.</td>
<td></td>
</tr>
<tr>
<td>PC-105</td>
<td>Five-channel multiple pump controller and relay switch</td>
<td><img src="image6" alt="Five-channel multiple pump controller and relay switch" /></td>
<td>Operates up to four pumps for a variety of configurations. Provides optional high-level, low-level, and out-of-sequence alarms are selectable. Saves panel space, and reduces wiring and labor.</td>
<td>Duplex, duplex SPS, triplex and quadruple pump control. Pump up or pump down functions. DIN-rail or surface mountable.</td>
<td></td>
</tr>
</tbody>
</table>

2018 Littelfuse® Industrial Business Unit

www.Littelfuse.com/Water
**Five-channel intrinsically-safe switch.**

LEDs provide proof of input and output activation.

Duplex, duplex SPS, triplex and quadplex pump control.

**Features**

- 10 A, SPDT output contacts, 2 in. x 2 in. panel-mount package.
- On-board knob adjusts delays from 1–100 s.
- Class CC fuses offer the smallest 600 VAC protection available.
- DIN-rail mounted. 120 VAC input, AC line frequency 50/60 Hz.
- Two form c-isolated contacts with LED status indicator.
- 4.7k to 100kΩ adjustable sensitivity.
- Class J fuses provide similar protection to Class R but in a smaller case.
- Pump disable switches and pump up or pump down control.
- DIN-rail or surface mountable. Finger-safe terminals.
- Extremely current-limiting to help minimize potential damage to equipment in the event of short a circuit.

**Competitor Part #**

- **ISS-105-ISO & ISS-101**
  
  Contact technical support for competitor cross references.

- **ISS-100 Single-Channel Model**
  
  Diversified: ISO-120-AFN

**Seal-Leak Detectors**

- **FS126 & FS126RC**
  
  Pump control panel flasher

  The FS126 is designed for incandescent and resistive loads, such as lamps or small heating elements. The FS126RC can also be used with inductive loads like electromechanical relays, contactors, small motors, and transformers.

**Flashters**

- **FS126 & FS126RC**
  
  Panel flasher


**Timers**

- **FS100**
  
  Series (e.g. FS126, FS126RC) can replace multiple flashers from Airotronics TEKR, Infitec TFS, Artisan 4210, Amperite DF and Diversified’s ETN series. Contact technical support for details.

**Contact technical support:** (800)843-8848, techline@littelfuse.com

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**Notes:**

1. Intrinsically safe: specially sealed relay switch for hazardous locations that limits the available electrical energy to nonincendive levels. This prevents sparks occurring during short circuit or failure, which can cause an explosive atmosphere.

2. Delay-on-make timer: upon application of input voltage, the time delay (t) begins. At the end of the time delay (t), the output is energized. Input voltage must be removed to reset the time delay relay & de-energize the output.

3. Delay-on-break timer: once the input voltage is applied, the time delay relay is ready to be activated. When the relay is activated, the output is energized. Once the relay is deactivated, the time delay will begin and the output will remain energized during timing.

**Contact technical support:** (800)843-8848, techline@littelfuse.com

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**Form:** PF158

**Rev:** 2-B-082818