# ELECTRICAL

## ELECTRICAL ACCESSORIES

### PGA-1100.0010
Diode Logic Unit

Used in installations with more than one breaker and more than one Littelfuse Arc-Flash Relay. It separates the trip paths, so the breakers can be tripped independently from each other.

**Full datasheet and ordering information available at www.littelfuse.com/pga1100**

**Accessory For:** **PGR-8800** **AF0500** **AF0100** **D0920** **D1000**

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### P1004-XX-(X)
Versa-Pot

| PART NUMBER | WITH WIRE LEADS | VALUE |
|---|---|---|
| P1004-199 | | 50 kΩ |
| P1004-174 | | 100 kΩ |
| P1004-175 | | 200 kΩ |
| P1004-95 | P1004-95-X | 100 kΩ |
| P1004-17 | | 500 kΩ |
| P1004-16 | P1004-16-X | 1M Ω |
| P1004-15 | | 1.5M Ω |
| P1004-14 | | 2M Ω |
| P1004-12 | P1004-12-X | 3M Ω |
| P1004-13 | | 5M Ω |

Panel mountable, industrial potentiometer recommended for remote time delay adjustment. The shaft is slotted for screwdriver adjustment and serrated for slip-proof finger adjustment. Accepts Versa-Knob or Lock Shaft. May be ordered with two 8 in (20.3 cm) wires soldered to pot (clockwise increase) and female quick connect terminals on other ends by adding suffix -X to end of part number.

**Specifications**

| | |
|---|---|
| **Rating** | 0.25 W at 55 °C |
| **Taper** | Linear |
| **Shaft Rotation** | 300° ±5° |
| **Tolerance** | ±10 % |
| **Shaft Diameter** | 0.25 in |

P1004-95 & P1004-95-X:
**Consult individual datasheet for compatibility**

P1004-174 & P1004-175:
**PHS Series**

P1004-16 & P1004-16-X:
**Series: ERDM ERDI ERD3 TRB TRM TRS TS1 TS6**

P1004-15, P1004-14, P1004-13, P1004-12, & P1004-12-X:
**Series: ORB ORM ORS TAC1 THD7 TRB TRM TRS TS1 TS2 TS4 TS6 TSD7 TSU2000**

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### P0700-7
Versa-Knob

Versa-Knob is designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.

**P1004-XX-(X)**

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### P0700-8
Lock Shaft

Fits 0.25 in (6.35 mm) potentiometer shafts. Locks by tightening nut onto four tapered/slotted fingers. Pressure on the shaft locks control against mis-adjustment. Nickel plated brass finish.

**P1004-XX-(X)**

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### P1004-9
### P1004-10
### P1004-31
Mini-Pot

| PART NUMBER | VALUE |
|---|---|
| P1004-9 | 500kΩ |
| P1004-10 | 1MΩ |
| P1004-31 | 3MΩ |

A high quality, industrial potentiometer for remote time delay adjustment. The shaft extends through the timer's center hole for easy panel mounting. Use mini-mount bracket for standup mounting of timer. Adjustment by screwdriver or mini-knob. May be ordered with two 3 in (7.6 cm) wires soldered to pot (clockwise increase) and female quick connect terminals on other ends by adding suffix -X to end of part number.

**Specifications**

| | |
|---|---|
| **Rating** | 0.25 W at 55 °C |
| **Taper** | Linear |
| **Shaft Rotation** | 300° ±5° |
| **Tolerance** | ±10 % |
| **Shaft Diameter** | 0.125 in (3.2 mm) |

**Series: TAC1 TS1 TS2 TS4 TS6 TSD7 TSU2000**

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### P0700-21
Mini-Knob

Mini-Knob is designed for 0.125 in (3.2 mm) shaft of Mini-Pot. Semi-gloss industrial black finish.

**P1004-9** **P1004-10** **P1004-31**

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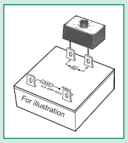
| Product | Features | Accessory For |
|---|---|---|
| **P0200-19**<br>Heat Sink Compound<br>2 grams<br>**P0200-20**<br>Heat Sink Compound<br>100 grams | Single package/container of heat sink compound consisting of primarily zinc oxide and having a 12 month shelf life (EOD date on the label). P0200-19 mounts one high current, plated 2 x 2 in (50.8 x 50.8 mm) timer or flasher. P0200-20 mounts 50+ units. | **Any 2 x 2 in (50.8 x 50.8 mm) plated timer or flasher.** |
| **P1015-18**<br>Quick Connect<br>Screw Adaptor | Screw adaptor terminal designed for use with all modules with 0.25 in (6.35 mm) male quick connect terminals. Screw terminal accepts ring or spade terminals. | **Modules with 0.25 in (6.35 mm) male quick connect terminals. Consult the individual datasheet to determine compatibility.** |
| **P1015-13**<br>**P1015-64**<br>**P1015-14**<br>Female Quick<br>Connect Terminals | These 0.25 in (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief. | **Consult individual datasheet to determine compatibility.** |
| **P0400**<br>Time Adjustment Dials | Dials for use with remote Versa-Pot and panel mounted Mini-Pot. Reverse screen printed on clear plastic to avoid damage to printed image. | **P1004-9** **P1004-10** **P1004-12**<br>**P1004-13** **P1004-16** **P1004-31**<br>**P1004-95** |

| PART NUMBER | RANGE | INCREMENTS |
|---|---|---|
| P0400-12 | 0.05 - 1 s | 0.1 s |
| P0400-86 | 0.1 - 10 m | 1 m |
| P0400-82 | 0.1 - 10 s | 1 s |
| P0400-17 | 1 - 30 s | 5 s |
| P0400-83 | 1 - 60 s | 10 s |
| P0400-27 | 0 - 10 | MRD* |

*Multiplier Reference Dial

**VTPXX**
VTP



The VTP Series mounts on modules with in-line adjustment terminals. Rated at 0.25 W at 55 °C. Available in resistance values from 5 kΩ to 5 MΩ

**Series:** **TAC1** **THD7** **THDM** **TS1** **TS2** **TS4** **TS6** **TSD7**

| PART NUMBER | $R_T$ VALUE | RANGE | PART NUMBER | $R_T$ VALUE | RANGE |
|---|---|---|---|---|---|
| VTP0E | 250 kΩ | 0.5–20s | VTP3L | 2 MΩ | 0.1–4 m |
| VTP1B | 0.5 MΩ | 0.05–3s | VTP4B | 3 MΩ | 0.05–3 s |
| VTP1C | 0.5 MΩ | 0.1–10s | VTP4F | 3 MΩ | 0.5–60 s |
| VTP1D | 0.5 MΩ | 0.5–10s | VTP4J | 3 MΩ | 2–180 s |
| VTP2A | 1 MΩ | 0.05–1s | VTP4P | 3 MΩ | 1–100 m |
| VTP2C | 1 MΩ | 0.1–10s | VTP5G | 5 MΩ | 1–100 s |
| VTP2E | 1 MΩ | 0.5–20s | VTP5K | 5 MΩ | 10–1000 s |
| VTP2F | 1 MΩ | 0.5–60s | VTP5N | 5 MΩ | 0.1–10 m |
| VTP2J | 1 MΩ | 2–180s | VTP5P | 5 MΩ | 1–100 m |
| VTP2P | 1 MΩ | 1–100m | VTPDF | 50 kΩ | 0.5–60 s |
| VTP3B | 2 MΩ | 0.05–3s | | | |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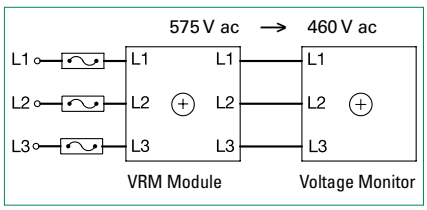
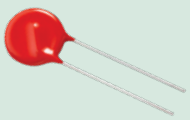
| Product | Features | Accessory For |
|---|---|---|
| **LPSM003ZXID**<br>Indicating Fuse Holder<br>**LPSM003Z**<br>Non-indicating Fuse Holder | Littelfuse POWR-SAFE Dead Front holders provide optimum protection to personnel for Class CC and Midget-Style fuses. 600 V ac/dc | **Class CC and Midget-Style fuses** |
| **0KLK002.T**<br>Midget Fuse (2 Amp) | 10 x 38 fast acting, high-interrupting capacity, current-limiting type fuse. 600 V ac/500 V dc | **FH3P** **LPSM003ZXID** **LPSM003Z** |
| **VRM6048**<br>Voltage Monitor Accessory Module   | The VRM6048 accessory module allows the voltage monitor to monitor a 3-phase 550 to 600 V ac Line.<br>**Adjustment** If the measured line voltage is 575 V ac, connect as shown and adjust/select the voltage monitor for 460 V ac operation.<br>**Package** Molded housing with encapsulated circuitry<br>**Mounting** Surface mount with one #10 (M5 x 0.8) plastic screw. May be DIN-rail mounted using P1023-20 Adaptor.<br>**Termination** Screw terminals with captive wire clamps for up to No.12 AWG wire.<br>**Operating Storage** -40 °C to 70 °C / -40 °C to 85 °C<br>**Humidity** 95 % relative, non-condensing<br>**Voltage**<br>**Input** 600 V ac / 575 V ac / 550 V ac<br>**Output*** 480 V ac / 460 V ac / 440 V ac<br>*The VRM6048 must be connected as shown. If the voltage monitor is disconnected, the VRM output voltage equals the input voltage. | **Series:** **PLM** **PLR** **PLS** **TVM** **TVW** **(manufactured after December 2003)** |
| **V150LA10AP**<br>LA Varistor  | The V150LA10AP, a transient voltage surge suppressor, is a radial leaded varistors (MOVs) that is designed to be operated continuously across ac power lines. This UL Recognized varistor requires very little mounting space. | **Any of our products that operate below 150 V ac or 200 V dc.** |

| PRODUCT | MAX. OPERATING VOLTAGE | | MAX IMPULSE CURRENT 80.20 µs CURRENT WAVE (A) | VARISTOR VOLTAGE AT 1MA DC TEST CURRENT | | PEAK CLAMPING VOLTAGE WITH 80.20 µs WAVE | | CAPACITANCE | DISC DIAMETER SIZE (MM) |
|---|---|---|---|---|---|---|---|---|---|
| | AC (V) | DC (V) | | MIN. (V) | MAX. (V) | $V_C$ (V) | $1_{PK}$ (A) | | |
| V150LA10AP | 150 | 200 | 4500 | 216 | 264 | 395 | 50 | 800 | 14 |

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