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*Current Transformers (CTs)*

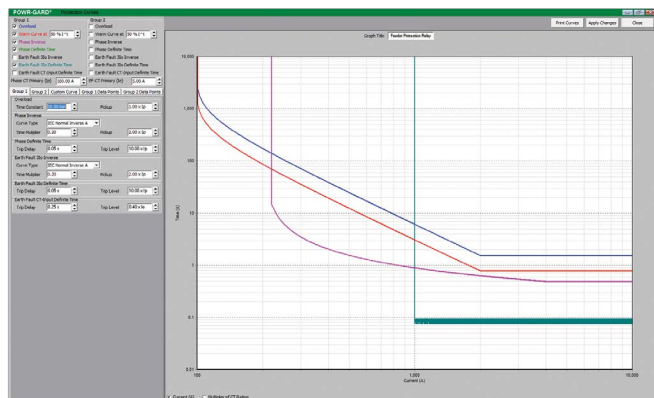
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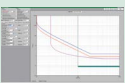






For More Information...  
on Retrofits, Panel Mount Adapters  
and more accessories, visit  
**[Littelfuse.com/relayaccessories](http://Littelfuse.com/relayaccessories)**

# SOFTWARE









Protection Relays and Alarm Systems are supplied with free software. The software simplifies programming and allows the user to save setpoint files and reuse them for similar applications.





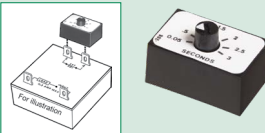
The software gives the ability to change parameters and see the impact on the protection time current curves. It also allows another device curve to be entered to view simple coordination.

SOFTWARE		
Product	Features	Accessory For
<b>Solutions-M</b> Relay Interface Software 	Provides the ability to configure and monitor Modbus networks. The features include data logging, real-time data monitoring and fault and event monitoring. Devices can be added and configured manually or the software can scan an existing network to identify devices which can be used as is or reconfigured by the user. Setpoints for each device can be uploaded and downloaded for easy monitoring and reconfiguration.	<b>RS485</b> <b>TCP/IP networks</b> <b>MotorSaver and PumpSaver Devices</b>
<b>SE-COMM-RIS</b> Relay Interface Software 	Provides remote access to metering, control, data logging, and programming features. Setpoints can be accessed individually, downloaded as a file, and protective curves can be plotted. Metered data can be observed or logged for later study.	<b>FPU-32 MPS</b> <b>FPS MPU-32</b>
<b>SE-FLASH</b> Firmware Update Utility 	Used to update relay firmware to add new features.	<b>FPU-32 MPS EL731</b> <b>FPS MPU-32</b>
<b>SE-MON330</b> Relay Interface Software 	Used to receive data from the SE-330. It displays relay set points and measured values, and features data logging of information at a selectable interval.	<b>SE-330 SE-330HV</b> <b>SE-330AU</b>
<b>VMPU</b> Virtual Motor Protection Relay 	Allows the user to scroll through the MPU-32 Motor Protection Relay menu.	<b>MPU-32</b>
<b>VMPS</b> Virtual Motor Protection System 	Allows the user to scroll through the MPS Motor Protection System menu.	<b>MPS</b>
<b>VFPU</b> Virtual Feeder Protection Relay 	Allows the user to scroll through the FPU-32 Feeder Protection Relay menu.	<b>FPU-32</b>
<b>MPU-32 Tutorial</b> MPU-32 Online Self-Training Tutorial 	Online Self-Training tutorial for MPU-32 programming.	<b>MPU-32</b>




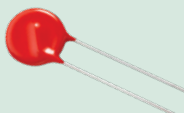
# ELECTRICAL

ELECTRICAL ACCESSORIES																																		
Product	Features	Accessory For																																
<div>PGA-1100.0010</div> <div>Diode Logic Unit</div> <div></div>	<div>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.</div> <div>For full datasheet, see pg. 81</div>	<div>PGR-8800 D0920</div> <div>AF0500 D1000</div> <div>AF0100</div>																																
<div>P1004-XX-(X)</div> <div>Versa-Pot</div> <div></div> <table><tr><th>PART NUMBER</th><th>WITH WIRE LEADS</th><th>VALUE</th></tr><tr><td>P1004-199</td><td></td><td>50 kΩ</td></tr><tr><td>P1004-174</td><td></td><td>100 kΩ</td></tr><tr><td>P1004-175</td><td></td><td>200 kΩ</td></tr><tr><td>P1004-95</td><td>P1004-95-X</td><td>100 kΩ</td></tr><tr><td>P1004-17</td><td></td><td>500 kΩ</td></tr><tr><td>P1004-16</td><td>P1004-16-X</td><td>1M Ω</td></tr><tr><td>P1004-15</td><td></td><td>1.5M Ω</td></tr><tr><td>P1004-14</td><td></td><td>2M Ω</td></tr><tr><td>P1004-12</td><td>P1004-12-X</td><td>3M Ω</td></tr><tr><td>P1004-13</td><td></td><td>5M Ω</td></tr></table> <div><div>Specifications</div><div>Rating0.25 W at 55 °C</div><div>TaperLinear</div><div>Shaft Rotation300° ±5°</div><div>Tolerance±10 %</div><div>Shaft Diameter0.25 in</div></div>	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	<div>P1004-95 &amp; P1004-95-X: Consult individual datasheet for compatibility</div> <div>P1004-174 &amp; P1004-175: PHS Series</div> <div>P1004-16 &amp; P1004-16-X: Series: ERDM ERDI ERD3 TRB TRM TRS TS1 TS6</div> <div>P1004-15, P1004-14, P1004-13, P1004-12, &amp; P1004-12-X: Series: ORB ORM ORS TAC1 THD7 TRB TRM TRS TS1 TS2 TS4 TS6 TSD7 TSU2000</div>
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P1004-13		5M Ω																																
<div>P0700-7</div> <div>Versa-Knob</div> <div></div>	<div>Versa-Knob is designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.</div>	<div>P1004-XX-(X)</div>																																
<div>P0700-8</div> <div>Lock Shaft</div> <div></div>	<div>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.</div>	<div>P1004-XX-(X)</div>																																
<div>P1004-9</div> <div>P1004-10</div> <div>P1004-31</div> <div>Mini-Pot</div> <div></div> <table><tr><th>PART NUMBER</th><th>VALUE</th></tr><tr><td>P1004-9</td><td>500kΩ</td></tr><tr><td>P1004-10</td><td>1MΩ</td></tr><tr><td>P1004-31</td><td>3MΩ</td></tr></table> <div><div>Specifications</div><div>Rating0.25 W at 55 °C</div><div>TaperLinear</div><div>Shaft Rotation300° ±5°</div><div>Tolerance±10 %</div><div>Shaft Diameter0.125 in (3.2 mm)</div></div>	PART NUMBER	VALUE	P1004-9	500kΩ	P1004-10	1MΩ	P1004-31	3MΩ	<div>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.</div>	<div>Series: TAC1 TS4 TSU2000</div> <div>TS1 TS6</div> <div>TS2 TSD7</div>																								
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P1004-31	3MΩ																																	
<div>P0700-21</div> <div>Mini-Knob</div> <div></div>	<div>Mini-Knob is designed for 0.125 in (3.2 mm) shaft of Mini-Pot. Semi-gloss industrial black finish.</div>	<div>P1004-9</div> <div>P1004-10</div> <div>P1004-31</div>																																








# ELECTRICAL



ELECTRICAL ACCESSORIES																																																																										
Product		Features		Accessory For																																																																						
<div>P0200-19</div> <div>Heat Sink Compound</div> <div>2 grams</div> <div>P0200-20</div> <div>Heat Sink Compound</div> <div>100 grams</div> <div></div>		<div>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.</div>		<div>Any 2 x 2 in (50.8 x 50.8 mm) plated timer or flasher.</div>																																																																						
<div>P1015-18</div> <div>Quick Connect Screw Adaptor</div> <div></div>		<div>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.</div>		<div>Modules with 0.25 in (6.35 mm) male quick connect terminals. Consult the individual datasheet to determine compatibility.</div>																																																																						
<div>P1015-13</div> <div>P1015-64</div> <div>P1015-14</div> <div>Female Quick Connect Terminals</div> <div></div>		<div>These 0.25 in (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.</div>		<div>Consult individual datasheet to determine compatibility.</div>																																																																						
<div>P0400</div> <div>Time Adjustment Dials</div> <div></div>		<div>Dials for use with remote Versa-Pot and panel mounted Mini-Pot. Reverse screen printed on clear plastic to avoid damage to printed image.</div>		<div>P1004-9</div> <div>P1004-13</div> <div>P1004-95</div> <div>P1004-10</div> <div>P1004-16</div> <div>P1004-12</div> <div>P1004-31</div>																																																																						
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<div>VTPXX</div> <div>VTP</div> <div></div>		<div>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</div>																																																																								
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# ELECTRICAL

ELECTRICAL ACCESSORIES									
Product			Features				Accessory For		
<div>LPSM003ZXID</div> <div>Indicating Fuse Holder</div> <div>LPSM003Z</div> <div>Non-indicating Fuse Holder</div> <div></div>			<div>Littelfuse POWR-SAFE Dead Front holders provide optimum protection to personnel for Class CC and Midget-Style fuses. 600 V ac/dc</div>				<div>Class CC and Midget-Style fuses</div>		
<div>OKLK002.T</div> <div>Midget Fuse (2 Amp)</div> <div></div>			<div>10 x 38 fast acting, high-interrupting capacity, current-limiting type fuse. 600 V ac/500 V dc</div>				<div>FH3P</div> <div>LPSM003ZXID</div> <div>LPSM003Z</div>		
<div>VRM6048</div> <div>Voltage Monitor Accessory Module</div> <div></div>			<div>The VRM6048 accessory module allows the voltage monitor to monitor a 3-phase 550 to 600 V ac Line.</div> <div><div>Adjustment</div><div>If the measured line voltage is 575 V ac, connect as shown and adjust/select the voltage monitor for 460 V ac operation.</div><div>Package</div><div>Molded housing with encapsulated circuitry</div><div>Mounting</div><div>Surface mount with one #10 (M5 x 0.8) plastic screw. May be DIN-rail mounted using P1023-20 Adaptor.</div><div>Termination</div><div>Screw terminals with captive wire clamps for up to No.12 AWG wire.</div><div>Operating Storage Humidity Voltage</div><div><div><div>Input</div><div>Output*</div></div><div><div>600 V ac</div><div>480 V ac</div></div><div><div>575 V ac</div><div>460 V ac</div></div><div><div>550 V ac</div><div>440 V ac</div></div></div></div> <div><div>*The VRM6048 must be connected as shown. If the voltage monitor is disconnected, the VRM output voltage equals the input voltage.</div></div>				<div>Series:</div> <div>PLM</div> <div>PLR</div> <div>PLS</div> <div>TVM</div> <div>TVW</div> <div>(manufactured after December 2003)</div>		
<div>V150LA10AP</div> <div>LA Varistor</div> <div></div>			<div>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.</div>				<div>Any of our products that operate below 150 V ac or 200 V dc.</div>		
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 <sub>C</sub> (V)	1 <sub>PK</sub> (A)		
V150LA10AP	150	200	4500	216	264	395	50	800	14










# GR MODULES, HIGH-TENSION COUPLERS, & RELAY TESTERS
















GROUND-REFERENCE MODULES		
Product	Features	Accessory For
<b>SE-GRM024</b> Ground Reference Module 	Connects the SE-601 relay to an ungrounded 24 V dc bus.	<b>SE-601</b>
<b>SE-GRM048</b> Ground Reference Module 	Connects the SE-601 relay to an ungrounded 48 V dc bus.	<b>SE-601</b>
<b>SE-GRM125</b> Ground Reference Module 	Connects the SE-601 relay to an ungrounded 125 V dc bus.	<b>SE-601</b>
<b>SE-GRM250</b> Ground Reference Module 	Connects the SE-601 relay to an ungrounded 250 V dc bus.	<b>SE-601</b>
<b>SE-GRM500</b> Ground Reference Module 	Connects the SE-601 relay to an ungrounded 500 V dc bus.	<b>SE-601</b>
<b>SE-GRM780</b> Ground Reference Module 	Connects the SE-601 relay to an ungrounded 780 V dc bus.	<b>SE-601</b>
<b>SE-GRM1000</b> Ground Reference Module 	Connects the SE-601 relay to an ungrounded 1000 V dc bus.	<b>SE-601</b>

HIGH-TENSION COUPLERS		
Product	Features	Accessory For
<b>PGH-5000</b> High Tension Couplers 	Allows 5 kV systems to be connected to relay.	<b>PGR-6100</b> <b>PGR-3200</b>
<b>PGH-6000</b> High Tension Couplers 	Allows 6 kV systems to be connected to relay.	<b>PGR-6100</b> <b>PGR-3200</b>

PROTECTION RELAY TESTERS		
Product	Features	Accessory For
<b>SE-100T</b>  Ground-Fault Relay Tester 	Tests the current pickup level ground-fault protection. Tests the entire ground-fault circuit.	<b>Any Relay on Substations, MCCs, Central Distribution Panels, Switchboards, and Test Benches</b>
<b>SE-400</b> Ground-Fault-Relay Test Unit 	Tests the current pickup level, time delay and coordination of ground-fault protection. Tests the entire ground-fault circuit.	<b>Any Relay on Substations, MCCs, Central Distribution Panels, Switchboards, and Test Benches</b>


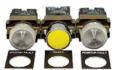



## INPUT MODULES & METERS









INPUT MODULES		
Product	Features	Accessory For
<b>MPS-RTD</b> Temperature Input Module 	Provides 8 programmable inputs to connect Pt100, Ni100, Ni120, and Cu10 RTDs.	<b>MPU-32 MPS</b>
<b>MPS-DIF</b> Differential Current Module 	Adds motor differential protection, compatible with core balance and summation current transformer connections.	<b>MPU-32 MPS</b>
<b>MPU-CIM</b> Current Input Module 	Interface between current transformers and MPU-32 or FPU-32 series relays. Reduces potential for open CT hazard.	<b>MPU-32 FPU-32</b>
<b>PGA-LS10</b> Point Sensor 	Line-of-sight light sensor detects an arc as small as 3 kA within a 2 m half-sphere. Local LED continually displays sensor health or trip state.	<b>PGR-8800 AF0500 AF0100</b>
<b>PGA-LS20</b> Fiber-Optic Sensor 	Used to detect light and coordinate with current detection to eliminate nuisance tripping. 8 m (26.2 ft) active; 10 m (32.8 ft) total.	<b>PGR-8800 AF0500 AF0100</b>
<b>PGA-LS30</b> Fiber-Optic Sensor 	Used to detect light and coordinate with current detection to eliminate nuisance tripping. 18 m (59 ft) active; 20 m (66 ft) total	<b>PGR-8800 AF0500 AF0100</b>
<b>A0200/A0300</b> Light Sensor 	Line-of-sight light sensor detects an arc as small as 3 kA within a 2 m half-sphere. Available in both 180° and 360°.	<b>D0920</b>
<b>A0220</b> Arc Detecting Point Sensor 	Line-of-sight light sensor detects an arc as small as 3 kA within a 2 m half-sphere. Available with 10 or 15 m cable. <b>For full datasheet and ordering information, see pg. 80</b>	<b>PGR-8800 AF0500 AF0100 D0920 D1000</b>
<b>LCSC10T12</b> Toroidal Current Sensor 	Remote monitoring of currents up to 50 A. Inner diameter 9.14 mm (0.36")	<b>DCSA Series</b>

REMOTE INDICATION & METERS		
Product	Features	Accessory For
<b>RK-105</b> Remote Indication and Reset Assembly   	Panel-mounted remote indication and reset with NEMA 1 rating.	<b>SE-105 SE-107</b>
<b>RK-105I</b> Remote Indication Assembly   	Panel-mounted remote indication with NEMA 1 rating.	<b>SE-105 SE-107</b>
<b>RK-102</b> Industrial Remote Indication and Reset Kit   	Panel-mounted remote indication and reset, standard 22 mm mounting, with NEMA 4 and NEMA 13 rating.	<b>SE-105 SE-107</b>
<b>RK-132</b> Industrial Remote Indication and Reset Kit   	Panel-mounted remote indication and reset, standard 22 mm mounting, with NEMA 4 and NEMA 13 rating.	<b>SE-134C SE-135 SE-145</b>
<b>RK-325</b> Remote Indication and Reset Assembly   	Panel-mounted remote indication and reset with NEMA 1 rating.	<b>SE-325</b>











# METERS & SENSING RESISTORS

REMOTE INDICATION & METERS		
Product	Features	Accessory For
<b>RK-325I</b> Remote Indication Assembly 	Panel-mounted remote indication with NEMA 1 rating.	<b>SE-325</b>
<b>RK-302</b> Remote Indication and Reset Kit 	Panel-mounted remote indication and reset, standard 22 mm mounting with NEMA 4 and NEMA 13 rating.	<b>SE-325</b>
<b>RK-332</b> Remote Indication and Reset Kit 	Panel-mounted remote indication and reset, standard 22 mm mounting with NEMA 4 and NEMA 13 rating.	<b>SE-330</b> <b>SE-330HV</b> <b>SE-330AU</b>
<b>PGA-0500</b> Analog % Current Meter 	Panel-mounted analog meter displays ground-fault current as a percentage of the set point.	<b>SE-601</b> <b>PGR-4300</b> <b>PGR-6100</b> <b>SE-701</b> <b>SE-703</b> <b>SE-704</b>
<b>PGA-0510</b> Analog Ohm Meter 	Panel-mounted analog ohmmeter displays insulation resistance from 0 $\Omega$ to infinity.	<b>PGR-3200</b> <b>PGR-6101-120</b> <b>PGR-6100</b>











SENSING RESISTORS		
Product	Features	Accessory For
<b>ER-600VC (PGE-600V)</b> Sensing Resistor 	Used on systems up to 1 kV. (Continuous duty)	<b>SE-330</b> <b>SE-330AU</b> <b>SE-325</b>
<b>SE-MRE-600</b> Enclosure 	Used in outdoor enclosures. (ER-600 VC ordered separately)	<b>ER-600VC</b>
<b>ER-5KV (PGE-05KV)</b> Sensing Resistor 	Used on systems up to 5 kV. (Continuous duty)	<b>SE-330</b> <b>SE-330AU</b> <b>SE-325</b>
<b>ER-5WP (PGE-05WV)</b> Sensing Resistor 	Used on systems up to 5 kV, includes weather-protected terminals for use in outdoor enclosures. (Continuous duty)	<b>SE-330</b> <b>SE-330AU</b> <b>SE-325</b>
<b>ER-15KV (PGE-15KV)</b> Sensing Resistor 	Used on systems up to 15 kV. (Non-continuous duty)	<b>SE-330</b> <b>SE-330AU</b> <b>SE-325</b> <b>SE-330HV</b>
<b>ER-25KV (PGE-25KV)</b> Sensing Resistor 	Used on systems up to 25 kV. (Non-continuous duty)	<b>SE-330</b> <b>SE-330AU</b> <b>SE-325</b> <b>SE-330HV</b>
<b>ER-35KV (PGE-35KV)</b> Sensing Resistor 	Used on systems up to 35 kV. (Non-continuous duty)	<b>SE-330</b> <b>SE-330HV</b> <b>SE-330AU</b>
<b>ER-72KV (PGE-72KV)</b> Sensing Resistor 	Used on systems up to 72 kV. (Non-continuous duty)	<b>SE-330HV</b>














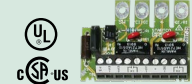




## REMOTE INDICATION & MONITORING

REMOTE INDICATORS & MONITORS		
Product	Features	Accessory For
<b>RM1000</b> <b>RM1000-3R</b> <b>RM1000 NEMA 4</b> Motor-monitoring Device 	Motor-monitoring device to be used in conjunction with the 777 family of products (excluding the P1 Series), 77C family of products, and the 601 voltage monitors, via Modbus protocol with a communications module. The RM1000/777 motor management system combines unsurpassed electronic motor protection and critical, user-friendly, motor monitoring. <b>For full datasheet, see pg. 246</b>	<b>777 series</b> <b>77C series</b> <b>601 series</b>
<b>RM2000</b> <b>RM2000CBM+</b> <b>RM2000-RTDW</b> Motor-monitoring Device 	Motor-monitoring device to be used in conjunction with the 777 family of products (excluding the P1 Series), 77C family of products and the Model 601 voltage monitors, via Modbus protocol with a communications module. The RM2000/777 motor management system combines unsurpassed electronic motor protection and critical, user-friendly, motor monitoring. <b>For full datasheet, see pg. 248</b>	<b>777 series</b> <b>77C series</b> <b>601 series</b>
<b>INFORMER</b> Remote diagnostic tool 	Hand-held diagnostic tool designed for use with single-phase pump relays. The Informer uses an infrared receiver to access information sent from the relay which can be helpful for troubleshooting the system. Comes with IR Kit-12 (12" long). <b>For full datasheet, see pg. 250</b>	<b>111P</b> <b>111P-ENCL</b> <b>232-Insider</b> <b>233P-ENCL</b> <b>234-P</b> <b>235P-ENCL</b> <b>111-Insider-P</b> <b>231-Insider-P</b> <b>233P-1.5</b> <b>233P-1.5-ENCL</b> <b>235P</b>
<b>IR Kit-36 (36" long)</b> Informer Fiber Optic Kit 	Use with the Informer. Simply attaches to the face of the unit to provide remote diagnostics without opening the panel.	<b>LSRX1</b> <b>LSRX-C</b> <b>111-Insider-P</b> <b>231-Insider-P</b> <b>455</b>
<b>INFORMER-MS</b> Remote diagnostic tool 	Hand-held diagnostic tool designed for use with the Littelfuse 455 series. The Informer-MS uses an infrared receiver to read valuable information transmitted from the 455, which can be helpful for troubleshooting the system <b>For full datasheet, see pg. 252</b>	<b>455 series</b>
<b>OL-RESET</b> Remote Reset Module 	Allows the 777 line of motor and pump relay products to be manually reset without opening the panel door. Simply connect the module to the 777 communication port, connect a wire to each of the two applicable pins on the OL-RESET and to a normally-open push-button switch (sold separately). Mount the push-button switch in a convenient location.	<b>777 series</b>
<b>777-MRSW</b> Manual Remote Reset Kit (24" long) 	Allows the 777 line of motor and pump relay products to be manually reset without opening the panel door. Simply connect the 9-pin adapter to the 777 communication port and mount the push-button switch in a convenient location.	<b>777 series</b>
<b>M500</b> Electronic Megohmmeter 	Automatic, portable, battery-powered insulation tester. This unit is specifically designed as an inexpensive alternative to costly swing needle megohmmeters. The M500 measures insulation resistance values of motors, generators and transformers up to 1000 megohms at 500 V ac, indicating the condition of insulation on the zone scale. Its compact design and ease of use makes the M500 a great diagnostic tool for motor rewind shops, electrical maintenance personnel and pump installers.	



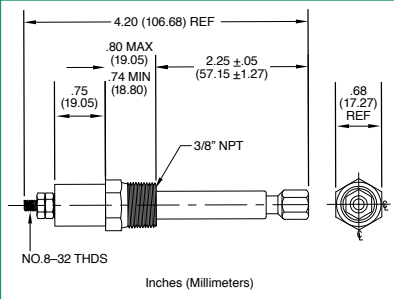
# COMMUNICATION ADAPTERS & MODULES

COMMUNICATION ADAPTERS		
Product	Features	Accessory For
<b>RS485-RS232</b> Converter with cable & plug 	Allows RS485 devices to be connected to a PC via the RS232 (serial) port. The converter provides convenient terminal blocks for making signal and dc power supply connections. An optional power supply may be required for laptops or other computers with low power serial ports, or for very large networks. Pre-wired for easy installation on the RS485MS-2W module.	<b>RS485MS-2W</b>
<b>RS485-USB</b> Converter with cable & plug/RS232:USB 	Allows RS485 devices to be connected to a PC via the USB port. The converter provides convenient terminal blocks for making signal and dc power supply connections. An optional power supply may be required for laptops or other computers with low power serial ports, or for very large networks. Pre-wired for easy installation on the RS485MS-2W module.	<b>RS485MS-2W</b>
<b>AC700-CUA</b> Communications Adapter 	Optical network-interface and firmware-upgrade communication adapter. Field-installed.	<b>EL731</b>
COMMUNICATION MODULES		
Product	Features	Accessory For
<b>RS485MS-2W</b> Communication Module 	This module is required when the RM1000, RM2000 or other Modbus capable device is used with 77X-type products. <a href="#">For full datasheet, see pg. 254</a>	<b>Series:</b> <b>RM1000</b> <b>77X</b> <b>RM2000</b>
<b>CIO-DN-P</b> <b>CIO-120-DN-P</b> Communication link to PLC/SCADA/monitoring systems 	Convenient and cost-effective Devicenet™ interfaces capable of providing discrete control and monitoring of motor starters, drives and other devices over a Devicenet network. <a href="#">For full datasheet, see pg. 257</a>	<b>777 series</b>
<b>CIO-EN</b> Communication link to PLC/SCADA/monitoring systems 	The CIO-EN Module (non-POE) is a convenient and cost-effective Modbus-TCP and Modbus-RTU interface capable of providing discrete control and monitoring of an overload relay over a Modbus network. <a href="#">For full datasheet, see pg. 260</a>	<b>777 series</b>
<b>CIO-MB</b> <b>CIO-120-MB</b> Communication link to PLC/SCADA/monitoring systems 	Convenient and cost-effective Modbus-RTU interfaces capable of providing discrete control and monitoring of an overload relay over a Modbus network. <a href="#">For full datasheet, see pg. 255</a>	<b>777 series</b>
<b>CIO-777-PR</b> Communication link to PLC/SCADA/monitoring systems 	Convenient and cost-effective Profibus interface capable of providing discrete control and monitoring of motor starters, drives and other devices over a Profibus network. <a href="#">For full datasheet, see pg. 259</a>	<b>777 series ending in P, -P, or -P2</b>
<b>CIO-601CS-DN-P1</b> 	Convenient and cost-effective DeviceNet device capable of providing discrete control and monitoring of motor starters, drives and other devices over a DeviceNet network.	<b>601-CS-D-P1</b>
<b>COM 4-20</b> Communication link to PLC/SCADA/monitoring systems 	Send a 4-20 mA signal proportional to the output power. It can also be used to send the input power by setting the efficiency setting on the 777-AccuPower monitor to one. This module allows communication to a PLC with an analog input and no Modbus input. <a href="#">For full datasheet, see pg. 261</a>	<b>777-AccuPower</b>

# TERMINATIONS & ADAPTERS

TERMINATIONS & ADAPTERS			
Product		Features	Accessory For
<b>1N5339B</b> Termination Device		5 W axial-lead ground-check termination. Included with SE-105 and SE-107.	<b>SE-105</b> <b>SE-107</b>
<b>SE-TA6-SM</b> Stud-Mount Termination Assembly		50 W ground-check termination that is robust and compact for submersible pumps. Wire lead simplifies installation. (Replacement for 1N4553B)	<b>SE-105</b> <b>SE-107</b>
<b>SE-TA6</b> Termination Assembly		50 W ground-check termination with convenient mounting holes and screw terminals.	<b>SE-105</b> <b>SE-107</b>
<b>SE-TA6A (PGA-0T6A)</b> Termination Assembly		Temperature compensated 50 W ground-check termination with convenient mounting holes and screw terminals.	<b>SE-105</b> <b>SE-107</b> <b>SE-134C</b>
<b>SE-TA6A-WL</b> Termination Assembly		Temperature compensated 50 W ground-check termination with convenient mounting holes and screw terminals.	<b>SE-105</b> <b>SE-107</b> <b>SE-134C</b>
<b>SE-TA6ASF-WL</b> Small-Format Termination Assembly with Wire Leads		Temperature compensated 12 W ground-check termination, ideal for use in cable-coupler end caps and submersible pumps. Mounting holes and wire leads.	<b>SE-105</b> <b>SE-107</b> <b>SE-134C</b>
<b>SE-TA12A</b> Termination Assembly		Temperature compensated 50 W ground-check termination with convenient mounting holes and screw terminals.	<b>SE-135</b> <b>SE-145</b>
<b>SE-TA12ASF-WL</b> Small-Format Termination Assembly with Wire Leads		Temperature compensated 12 W ground-check termination, ideal for use in cable-coupler end caps and submersible pumps. Mounting holes and wire leads.	<b>SE-135</b> <b>SE-145</b>
<b>SE-TA12A-WL</b> Termination Assembly		Temperature compensated 50 W ground-check termination with convenient mounting holes and screw terminals.	<b>SE-135</b> <b>SE-145</b>
<b>SE-TA12A SE-TA12B</b> Termination Assemblies		Used together to allow an SE-134C to monitor a splitter box and two cables.	<b>SE-134C</b>
<b>PPI-600V</b> Parallel Path Isolator		Parallel ground-path rejection for ground-check monitors. Eliminates intermachine arcing and prevents stray dc currents from flowing in a monitored ground wire.	<b>SE-105</b> <b>SE-134C</b> <b>SE-107</b> <b>SE-135</b>
<b>RK-13</b> Relay Interface Module		Separate ground-fault and ground-check indication contacts for the SE-105, and separate ground-fault and resistor-fault contacts for the SE-325. Used to provide output to a PLC and operate standard pilot lights. Complete with conformally coated circuit boards.	<b>SE-105</b> <b>SE-107</b> <b>SE-325</b>
<b>SE-485-DIN</b> Industrial RS-485 to RS-232 Converter		Industrial network quality RS-485 to RS-232 serial converter. DIN-rail mounted, 24 V dc required.	<b>MPS</b> <b>FPS</b>
<b>SE-485-PP</b> Port-Powered Serial Converter		Converts an RS-485 signal to an RS-232 signal. Used for set-point programming and updating flash memory. 115.2 kbit/s maximum transfer rate.	<b>MPU-32</b> <b>FPU-32</b> <b>MPS</b> <b>FPS</b>
<b>CA-945</b> Serial Connector Adapter Kit		Connects an RJ45 to a 9-pin serial connector. Includes 1.5 m cable and plug-in adapter.	<b>MPU-32</b> <b>FPU-32</b>
<b>SE-ICUSB232</b> USB to RS-232 Converter		Connects a 9-pin serial cable to a USB port.	<b>SE-330</b> <b>SE-330AU</b> <b>SE-485-PP</b> <b>CA-945</b> <b>SE-330HV</b> <b>SE-485-DIN</b>

# LIQUID LEVEL PROBES & PROBE HOLDERS

LIQUID LEVEL CONTROL ELECTRODES																	
Product	Features	Accessory For															
<b>LLP-24</b> Liquid Level Probe 	Threaded stainless steel probe measuring 24 in (61 cm) long. Designed for use with PHST-38QTN liquid level control electrodes.	<b>PHST-38QTN</b>															
<b>PHST-38QTN</b> Probe Holder <b>P0700-409</b> Protective Boot 	 <p>Designed for use with all conductive liquid level controls. Composed of insulators and metal parts made of number 300 series stainless steel. These internally conductive probe holders are designed for a maximum steam pressure of 240 PSI; 400 °F maximum. Maximum voltage from electrode to ground. PHST-38QTN is UL 353 Recognized.</p>	<b>Series:</b> <table> <tr> <td>LLC1</td> <td>LLC2</td> <td>LLC4</td> </tr> <tr> <td>LLC5</td> <td>LLC6</td> <td>LLC8</td> </tr> <tr> <td colspan="3">PC-XXX-LLC-CZ</td> </tr> <tr> <td colspan="3">PC-XXX-LLC-GM</td> </tr> <tr> <td colspan="3">460-15-100-LLS</td> </tr> </table>	LLC1	LLC2	LLC4	LLC5	LLC6	LLC8	PC-XXX-LLC-CZ			PC-XXX-LLC-GM			460-15-100-LLS		
LLC1	LLC2	LLC4															
LLC5	LLC6	LLC8															
PC-XXX-LLC-CZ																	
PC-XXX-LLC-GM																	
460-15-100-LLS																	

# CT SELECTION GUIDE

	PRODUCT	GROUND-FAULT CT	GROUND-FAULT TRIP LEVEL (or insulation level)	PHASE CTS	PAGE #
GROUND-FAULT PROTECTION	SE-601	No CTs required	1–20 mA	N/A	—
	PGR-3100	No CTs required	Indication only	N/A	—
	PGR-3200	No CTs required	Warnings at 30 kΩ & 50 kΩ Alarm at 10 kΩ	N/A	—
	SE-701/SE-703	CT200 series	10–198 A	N/A	480
		EFCT series	50 mA–4.95 A		480
SE-CS30 series		300 mA–29.7 A	480		
GROUND- CONDUCTOR MONITORING	SE-704	SE-CS30 series	10 mA–5 A	N/A	480
	EL731	EFCT series	30–5,000 mA ac and dc	N/A	480
	SE-105/SE-107	CT200 series	0.5–4 A	N/A	480
	SE-134C/SE-135	SE-CS10 series	0.5–12.5 A	N/A	480
	RESISTANCE GROUNDING	SE-330	CT200 series	12–200 A	N/A
EFCT series			100 mA–5 A	480	
SE-CS30 series			600 mA–30 A	480	
SE-325		CT200 series	0.5–4 A	N/A	480
MOTOR & PUMP PROTECTION		MPU-32*	CT200 series	10–200 A	N/A
	EFCT series		50 mA–5 A	480	
	SE-CS30 series		300 mA–30 A	480	
	MPS*	CT200	10–200 A	1-A, 5-A Secondary CTs	480
		EFCT series (5-A Primary)	50 mA–5 A		480
SE-CS30 series (30-A Primary)		300 mA–30 A	480		
FEEDER PROTECTION	MPU-32-X69X-PMA16	Existing CTs can be used or same as MPU-32.			480
	MPS-469X-PMA24	Existing CTs can be used or same as MPS.			480
	FPU-32*	CT200 series	10–200 A	1-A, 5-A Secondary CTs	480
		EFCT series	50 mA–5 A		480
		SE-CS30 series	300 mA–30 A		480
ARC-FLASH PROTECTION	FPS*	CT200	10–200 A	1-A, 5-A Secondary CTs	480
		EFCT series (5-A Primary)	50 mA–5 A		480
		SE-CS30 series (30-A Primary)	300 mA–30 A		480
	PGR-8800*	N/A	N/A	5-A Secondary CTs (optional)	480

Note: See page 502 for additional information on CT selection. See page 482 for CT sizing chart.

\*Phase CTs should be selected with a primary rating of 100–300 % of rated current to maintain specified accuracy.

†Select a CT with a primary rating approximately equal to the system's rated current.

# CURRENT TRANSFORMERS

CURRENT TRANSFORMERS						
Product		Features	Inner Diameter	Accessory For		
<b>CT200 (PGC-2056)</b> Current Transformer		Detects phase current or ground-fault current (200-A primary)	56 mm (2.20")	<b>FPS MPU-32 SE-330</b>	<b>FPU-32 PGR-8800 SE-325</b>	<b>MPS SE-105/107 SE-701</b>
<b>CT200L (PGC-2089)</b> Current Transformer		Detects phase current or ground-fault current (200-A primary)	89 mm (3.50")	<b>FPS MPU-32 SE-107</b>	<b>FPU-32 PGR-8800 SE-701</b>	<b>MPS SE-105</b>
<b>EFCT-26 (PGC-3026)</b> Ground-Fault Current Transformer		Sensitive current transformer used to detect ground-fault current (5-A primary)	26 mm (1.02")	<b>EL731 MPS SE-701</b>	<b>FPS MPU-32</b>	<b>FPU-32 SE-330</b>
<b>EFCT-1 (PGC-3082)</b> Ground-Fault Current Transformer		Sensitive current transformer used to detect ground-fault current (5-A primary)	82 mm (3.23")	<b>EL731 MPS SE-701</b>	<b>FPS MPU-32</b>	<b>FPU-32 SE-330</b>
<b>EFCT-2 (PGC-3140)</b> Ground-Fault Current Transformer		Sensitive current transformer used to detect ground-fault current (5-A primary)	140 mm (5.50")	<b>EL731 MPS</b>	<b>FPS MPU-32</b>	<b>FPU-32 SE-701</b>
<b>EFCT-1FC (PGC-31FC)</b> Flux Conditioner		Fits in the EFCT-1 window to reduce saturation and prevent false operation due to large surge currents	70 mm (2.75")	<b>EFCT-1</b>		
<b>SE-CS10-2.5 (PGC-4064)</b> Current Sensor		Detects ground-fault current	64 mm (2.50")	<b>SE-134C</b>	<b>SE-135</b>	<b>SE-145</b>
<b>SE-CS10-4 (PGC-4108)</b> Current Sensor		Detects ground-fault current	108 mm (4.25")	<b>SE-134C</b>	<b>SE-135</b>	<b>SE-145</b>
<b>SE-CS10-6 (PGC-4160)</b> Current Sensor		Detects ground-fault current	160 mm (6.31")	<b>SE-134C</b>	<b>SE-135</b>	<b>SE-145</b>
<b>SE-CS10-8 (PGC-4210)</b> Current Sensor		Detects ground-fault current	210 mm (8.25")	<b>SE-134C</b>	<b>SE-135</b>	<b>SE-145</b>
<b>SE-CS30-26 (PGC-5025)</b> Ground-Fault Current Transformer		Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	25 mm (0.98")	<b>FPS MPU-32 SE-330</b>	<b>FPU-32 PGR-6100 SE-701</b>	<b>MPS PGR-6101 SE-704</b>
<b>SE-CS30-70 (PGC-5060)</b> Ground-Fault Current Transformer		Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	60 mm (2.36")	<b>FPS MPU-32 SE-330</b>	<b>FPU-32 PGR-6100 SE-701</b>	<b>MPS PGR-6101 SE-704</b>
<b>SE-CS30-4 (PGC-5095)</b> Ground-Fault Current Transformer		Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	95 mm (3.74")	<b>FPS MPU-32 SE-330</b>	<b>FPU-32 PGR-6100 SE-701</b>	<b>MPS PGR-6101 SE-704</b>
<b>SE-CS30-5 (PGC-5130)</b> Ground-Fault Current Transformer		Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	130 mm (5.12")	<b>FPS MPU-32 SE-330</b>	<b>FPU-32 PGR-6100 SE-701</b>	<b>MPS PGR-6101 SE-704</b>
<b>SE-CS30-8 (PGC-5200)</b> Ground-Fault Current Transformer		Current Transformer for low-level ground faults, flux conditioner is standard (30-A primary)	200 mm (7.87")	<b>FPS MPU-32 SE-330</b>	<b>FPU-32 PGR-6100 SE-701</b>	<b>MPS PGR-6101 SE-704</b>
<b>SE-CS40-6</b> Current Sensor		Detects ground-fault current	160 mm (6.31")	<b>SE-135</b>	<b>SE-145</b>	

**NOTE:** Contact factory for additional CT offerings.



# INSTRUMENTATION & METERING TRANSFORMERS



**Donut Style**

**Foot Mounted**

## Ordering Information

DONUT MODEL	WINDOW	CURRENT RATIO
CT-0050-D10	1.0"	50:5
CT-0075-D10	1.0"	75:5
CT-0100-D10	1.0"	100:5
CT-0150-D10	1.0"	150:5
CT-0200-D10	1.0"	200:5
CT-0300-D10	1.0"	300:5
CT-0200-D20	2.0"	200:5
CT-0300-D20	2.0"	300:5
CT-0400-D20	2.0"	400:5
CT-0500-D20	2.0"	500:5

FOOTED MODEL	WINDOW	CURRENT RATIO
CT-0050-F10	1.0"	50:5
CT-0100-F10	1.0"	100:5
CT-0150-F10	1.0"	150:5
CT-0200-F10	1.0"	200:5
CT-0300-F10	1.0"	300:5
CT-1200-F15	1.5"	1200:5
CT-0150-F20	2.0"	150:5
CT-0200-F20	2.0"	200:5
CT-0300-F20	2.0"	300:5
CT-0400-F20	2.0"	400:5
CT-0600-F20	2.0"	600:5
CT-0400-F30	3.0"	400:5
CT-0800-F30	3.0"	800:5

## Description

Littelfuse offers a wide array of instrument rated current transformers in 1–3 inch diameter opening.

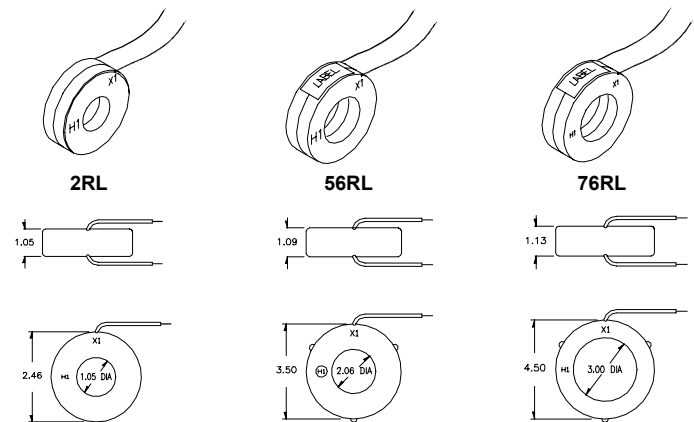
Voltage class: 600 V

BIL rating: 10 kV

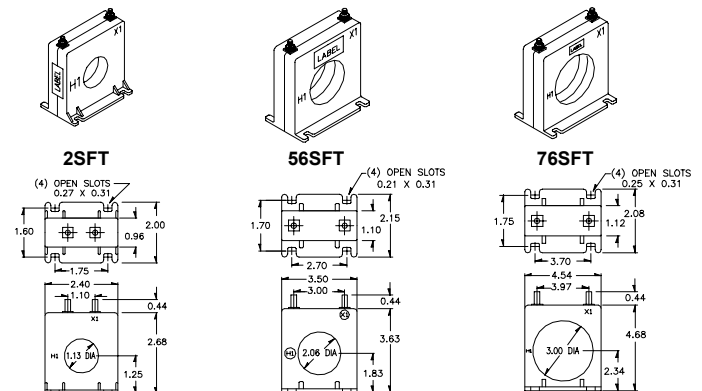
Certification: cRUus (WICC File E100575)

## Dimensional Drawing

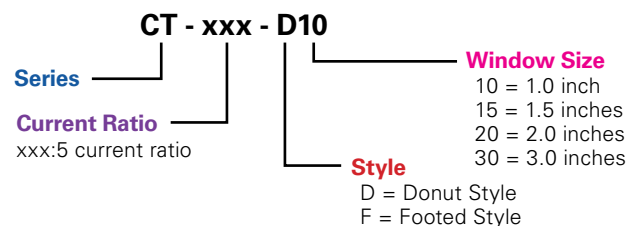
### DONUT STYLE



### FOOT MOUNTED WITH BRASS TERMINALS





## Part Numbering System





# INSTRUMENTATION & METERING TRANSFORMERS

INSTRUMENTATION AND METERING TRANSFORMERS			
Product	Features	Inner Diameter	Accessory For
<b>CT-XXXX-DXX Series</b> Donut Style Transformer 	Littelfuse offers a wide array of instrument rated current transformers in 1–3 inch diameter opening. <b>For full datasheet and ordering information, see page 481.</b>	25.4 - 76.2 mm (1 - 3")	<b>Series:</b> <b>777</b> <b>DCSA</b> <b>ECS</b> <b>ECSW</b> <b>LSR-0</b> <b>LSR-XX</b> <b>LSRU</b> <b>LSRX</b> <b>TCS</b> <b>TCSA</b> <b>LCSC10T12</b>
<b>CT-XXXX-FXX Series</b> Footed Style Transformer 	Littelfuse offers a wide array of instrument rated current transformers in 1–3 inch diameter opening. <b>For full datasheet and ordering information, see page 481.</b>	25.4 - 76.2 mm (1 - 3")	<b>Series:</b> <b>777</b> <b>DCSA</b> <b>ECS</b> <b>ECSW</b> <b>LSR-0</b> <b>LSR-XX</b> <b>LSRU</b> <b>LSRX</b> <b>TCS</b> <b>TCSA</b> <b>LCSC10T12</b>

## Current Transformer Sizing Chart

Conductor Size (AWG/kcmil)	Minimum CT Window Size (Inner Diameter in mm)					
	Number of Conductors					
	1	3	4	6	8	12
12	4	8	9	11	13	15
10	6	10	11	14	16	19
8	7	12	14	17	20	24
6	9	15	18	22	25	31
4	11	19	22	28	32	39
3	13	22	25	31	36	44
2	14	25	28	35	40	49
1	16	28	32	39	45	55
1/0	18	31	36	44	51	62
2/0	20	35	40	49	57	69
3/0	23	39	45	55	64	78
4/0	25	44	51	62	72	88
250	28	48	55	67	78	95
350	33	56	65	80	92	113
500	39	67	78	95	110	135
750	48	82	95	117	135	165
1000	55	95	110	135	156	191

### Installation Instructions:

When installing the Zero-Sequence CTs, ensure the following:

1. Only the load carrying conductors pass through the center of the CT. This means L1 + N for 1-phase and L1 + L2 + L3 for 3-phase.
2. The power conductors pass through the center of the CT and are preferably bound together to keep the conductors uniformly spaced.
3. The power conductors pass perpendicular to the CT and, where practical, continue perpendicular to the CT on both sides of the CT for 3”.
4. The power conductors should not be installed in a way that allows them to run along the side edges of the CT.
5. Where practical, locate the CT away from noise-generating devices such as transformers, frequency converters, etc.

# ELCT SERIES

## Current Transformer



### Description

The ELCT series is a sensitive current transformer with integrated flux conditioner used with Littelfuse relays to detect low levels of earth-leakage current.

### Accessories



#### CBLTP

Twisted-pair wire for connection to CT.  
Order in desired length in meters.

### Specifications

#### Current Rating

**ELCT5:** 5:0.05 A

**ELCT30:** 30:0.05 A

#### Accuracy

**ELCT5:** 3 % @ 0.01 VA

**ELCT30:** 3 % @ 0.06 VA

#### Frequency

50 to 400 Hz

#### Insulation Level

600 V

#### Operating Temperature

-40 °C to 55 °C (-40 °F to 131 °F)

#### Application

SE-701

#### Wire Gauge

0.05-3.3 mm<sup>2</sup> (12-30 AWG)

#### Tightening Torque

0.5 N-m

#### Certification

UL, cUL, CE

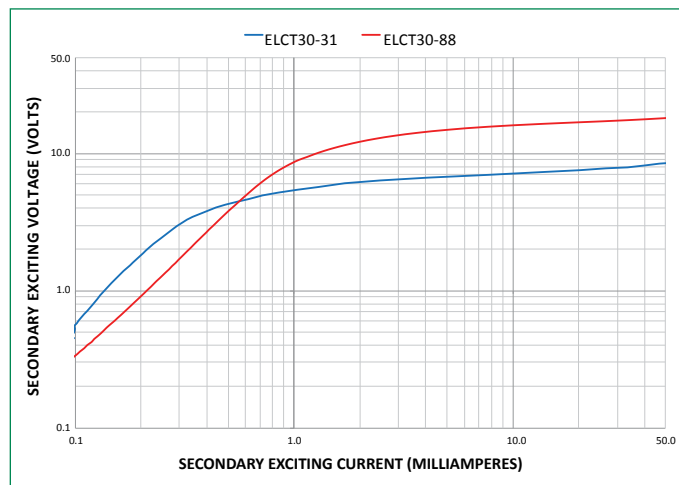
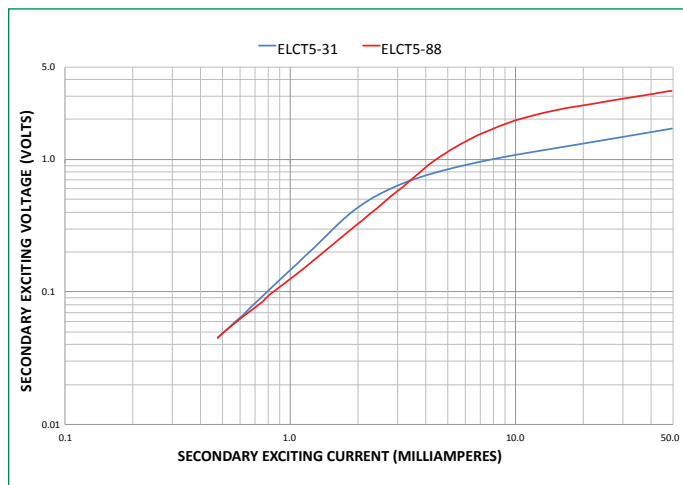
#### Compliance

RoHS, IEC 61869-2, ANSI/IEEE C57.13

### Ordering Information

ORDERING NUMBER	TURNS RATIO	WINDOW SIZE, ID	WEIGHT
ELCT5-31	100:1	31 mm (1.22 in)	127.0 g (0.28 lbs)
ELCT5-88	100:1	88 mm (3.46 in)	635.0 g (1.40 lbs)
ELCT30-31	600:1	31 mm (1.22 in)	131.5 g (0.29 lbs)
ELCT30-88	600:1	88 mm (3.46 in)	680.4 g (1.50 lbs)

Note: One frequency response may be extended for specific product families

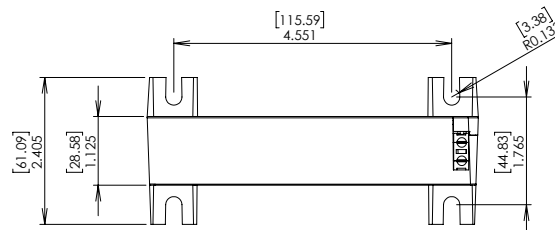
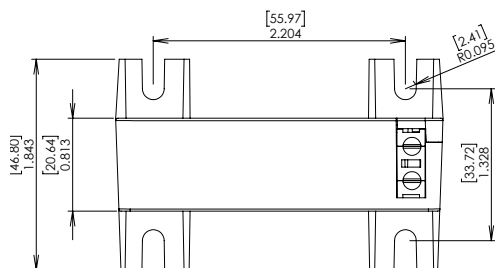


## ELCT SERIES

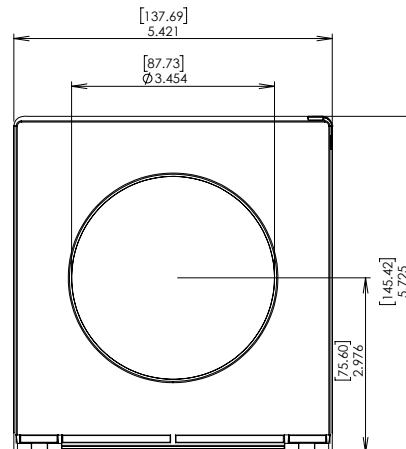
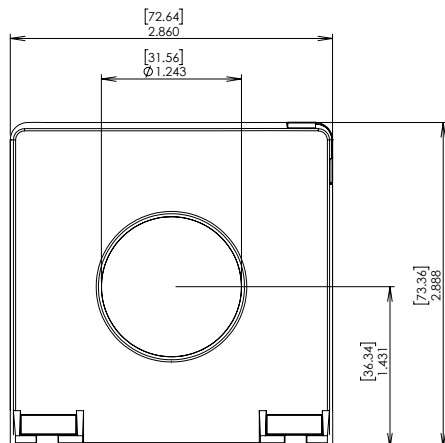
### Dimensions and Mounting Diagram Inches [millimeters]

Mount the ELCT5-31 and ELCT30-31 using M5 or #10 screws.

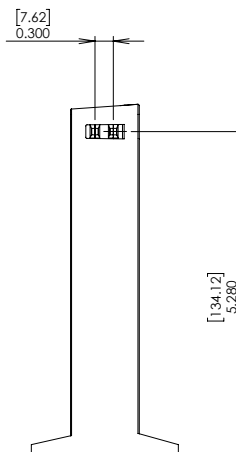
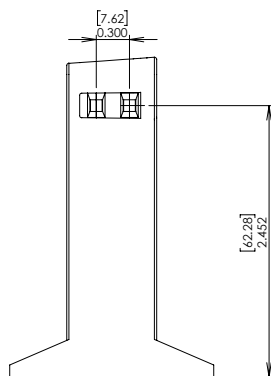
Mount the ELCT5-88 and ELCT30-88 using M6 or ¼" screws.



### TOP VIEW AND MOUNTING DETAIL



### FRONT VIEW



**ELCT5-31 and ELCT30-31**

**SIDE VIEW**

**ELCT5-88 and ELCT30-88**

## ZSCT SERIES

### Current Transformer



### Description

The ZSCT series is a current transformer used with Littelfuse relays to detect low levels of earth-leakage current.

### Accessories



#### CBLTP

Twisted-pair wire for connection to CT.  
Order in desired length in meters.

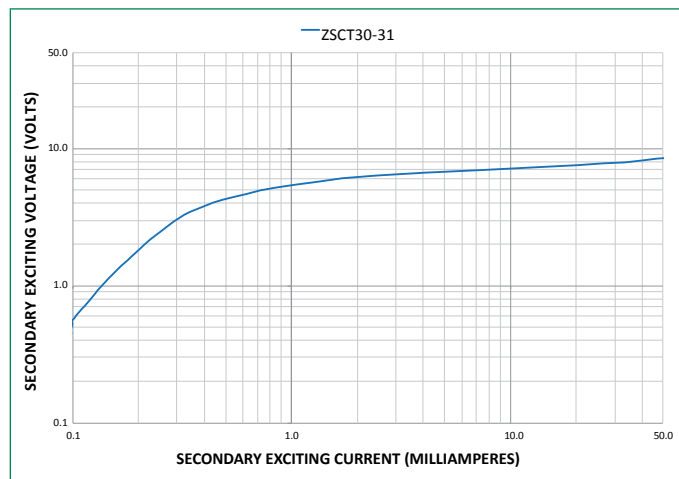
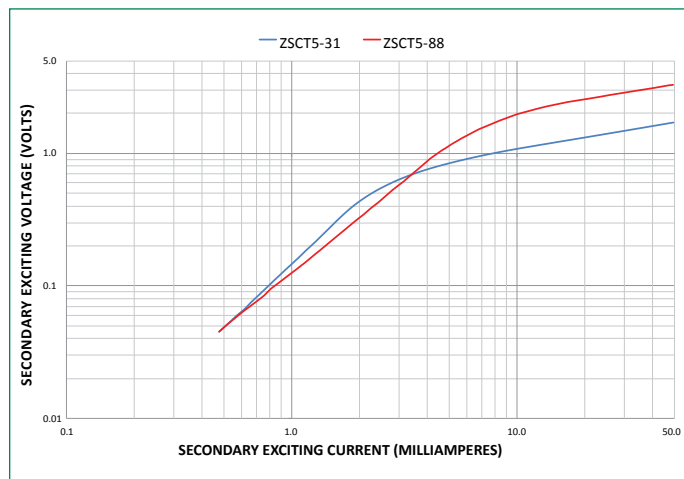
### Specifications

<b>Current Rating</b>	<b>ZSCT5:</b> 5:0.05 A <b>ZSCT30:</b> 30:0.05 A
<b>Accuracy</b>	<b>ZSCT5:</b> 3 % @ 0.01 VA <b>ZSCT30:</b> 3 % @ 0.06 VA
<b>Frequency</b>	50 to 400 Hz
<b>Insulation Level</b>	600 V
<b>Operating Temperature</b>	-40 °C to 55 °C (-40 °F to 131 °F)
<b>Application</b>	MP8000
<b>Wire Gauge</b>	0.05-3.3 mm <sup>2</sup> (12-30 AWG)
<b>Tightening Torque</b>	0.5 N-m
<b>Certification</b>	UL, cUL, CE
<b>Compliance</b>	RoHS, IEC 61869-2, ANSI/IEEE C57.13

### Ordering Information

ORDERING NUMBER	TURNS RATIO	WINDOW SIZE, ID	WEIGHT
ZSCT5-31	100:1	31 mm (1.22 in)	117.9 g (0.26 lbs)
ZSCT5-88	100:1	88 mm (3.46 in)	499.0 g (1.10 lbs)
ZSCT30-31	600:1	31 mm (1.22 in)	113.4 g (0.25 lbs)

Note: One frequency response may be extended for specific product families

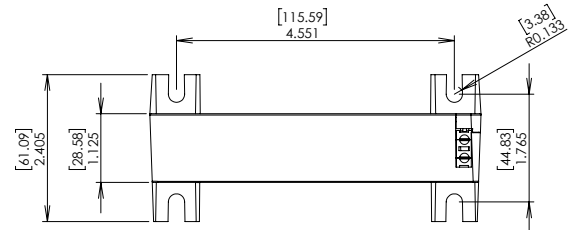
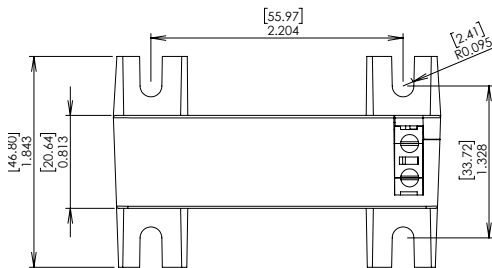


## ZSCT SERIES

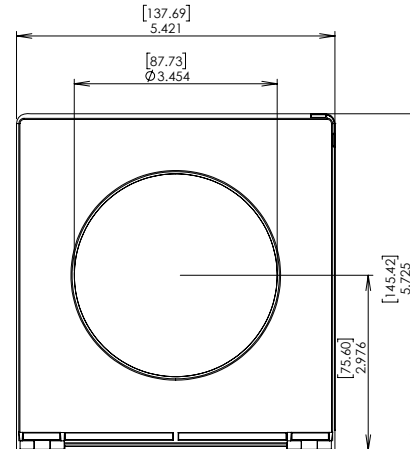
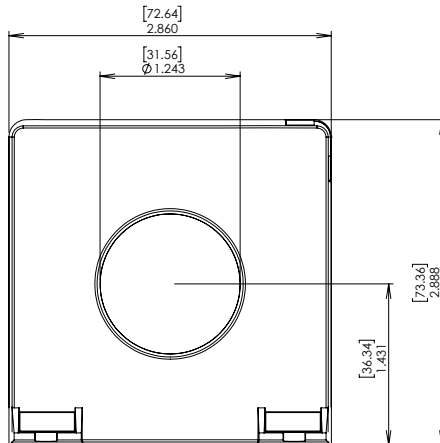
### Dimensions and Mounting Diagram Inches [millimeters]

Mount the ZSCT5-31 and ZSCT30-31 using M5 or #10 screws.

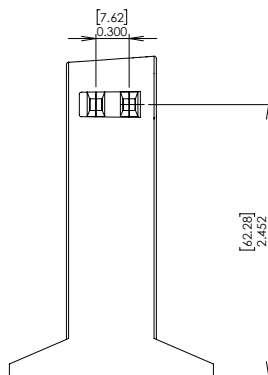
Mount the ZSCT5-88 using M6 or ¼" screws.



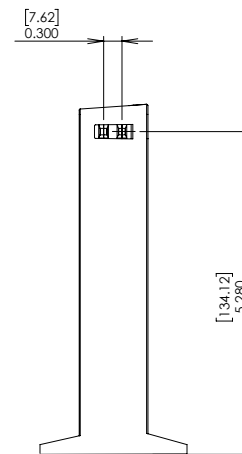
### TOP VIEW AND MOUNTING DETAIL



### FRONT VIEW



**ZSCT5-31 and ZSCT30-31**



**ZSCT5-88**

### SIDE VIEW

# PMA SERIES

## Panel Mount Adapters — Retrofits

Example Shown: PMA-3



Example of a panel mount adapter (PMA-3). Relay is for illustrative purposes only and must be purchased separately from adapter plate. For more information on our complete offering of panel mount adapters see the following page.

### Description

A variety of protection relay retrofit adapter plates are available for the products listed below. These adapter plates simplify the process of updating electromechanical or poorly functioning existing relays. Consult factory if you have a specific product to replace that is not featured. Adapters are available in either plate style for panel mounting or drawout style depending on the relay being replaced.

Motor, feeder and ground-fault protection upgrades are available for electromechanical or solid state relays that are nearing the end of their life.

### Features & Benefits

FEATURES	BENEFITS
<b>Mounting</b>	Fits in existing mounting holes and panel openings
<b>Multiple adapter sizes</b>	Plate style or drawout style adapters are available to fit various outdated relays

### Adapter Plates

RELAY TO REPLACE	PANEL MOUNT	NEW RELAY
AB BULLETIN 1406	PMA-14	MPS
FPL-GFRM	PMA-6	SE-701/SE-704
GE S1	PMA-9	MPU-32/FPU-32
GE LODTRAK III	PMA-10	MPU-32
GE MULTILIN 169, 269, or 369	PMA-13	MPS
	PMA-16	MPU-32
	PMA-16	FPU-32
GE MULTILIN 469	PMA-24	MPS
GE MULTILIN P4A	PMA-15	MPU-32/FPU-32
GEC/MCGG	PMA-3	SE-701/SE-704
GE & WESTINGHOUSE FT-11	PMA-12	MPU-32
P & B GOLDS	Contact Factory	FPU-32
WESTINGHOUSE C09 & C011	Contact Factory	FPU-32

For a complete list of the Littelfuse Panel Mount Adapter Plates please see next page.




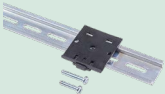

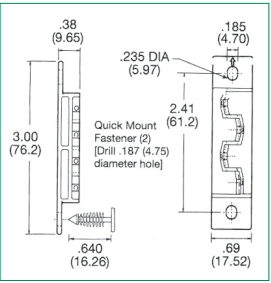

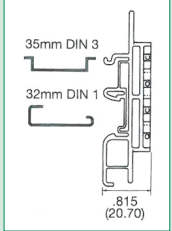
# PANEL-MOUNT ADAPTERS

PANEL MOUNT ADAPTERS		
Product	Features	Accessory For
<b>PMA-2</b> Adapter Plate	Used when replacing the AB Bulletin 1406.	<b>MPU-32</b>
<b>PMA-3</b> Adapter Plate	Used when replacing GEC/MCGG ground-fault relays. Requires PMA-55 or PMA-60.	<b>SE-704</b> <b>SE-701</b>
<b>PMA-4</b> Adapter Plate	Used when replacing the Multilin 139/239.	<b>MPU-32</b>
<b>PMA-6</b> Adapter Plate	Used when replacing FPL - GFRM ground-fault relays. Requires PMA-55 or PMA-60.	<b>SE-701</b>
<b>PMA-7</b> Adapter Plate	Used when replacing the GE Lodtrak II.	<b>MPU-32</b>
<b>PMA-8</b> Adapter Plate	Used when replacing an Atkinson Omser II with an SE-130-Series Monitor.	<b>SE-134C</b> <b>SE-135</b>
<b>PMA-9</b> Adapter Plate	Used when replacing relays in the GE S1 Case. Requires PMA-55 or PMA-60.	<b>MPU-32</b> <b>FPU-32</b>
<b>PMA-10</b> Adapter Plate	Used when replacing the GE Lodtrak III.	<b>MPU-32</b>
<b>PMA-12</b> Adapter Plate	Used when replacing GE and Westinghouse FT-11 relays.	<b>MPU-32</b>
<b>PMA-13</b> Adapter Plate	Used when replacing the GE Multilin 169, 269, or 369.	<b>MPS</b>
<b>PMA-14</b> Adapter Plate	Used for rough cutouts and when replacing the AB Bulletin 1406.	<b>MPS</b>
<b>PMA-15</b> Adapter Plate	Used for rough cutouts and when replacing the GE Multilin P4A.	<b>MPU-32</b> <b>FPU-32</b>
<b>PMA-16</b> Adapter Plate <b>PMA-16-RTDB</b> Mounting Bracket	The PMA-16 mounting plate is used when replacing the GE Multilin 169, 269, and 369 relays. The PMA-16-RTDB is a mounting bracket for the optional MPS-RTD Temperature Input Module.	<b>MPU-32</b> <b>FPU-32</b>
<b>PMA-17</b> Adapter Plate	Used when replacing Sprecher & Schuh Cet 4.	<b>MPU-32</b>
<b>PMA-18</b> Adapter Plate	Used when replacing Sprecher & Schuh Cet 3.	<b>MPU-32</b>
<b>PMA-21</b> Adapter Plate	Used when replacing an ABB RACIF.	<b>FPU-32</b>
<b>PMA-23</b> Adapter Plate	Custom mounting plate for FPU-32 to replace 3 Westinghouse C0 relays.	<b>FPU-32</b>
<b>PMA-24</b> Adapter Plate	Used when replacing the GE Multilin 469.	<b>MPS</b>
<b>PMA-55</b> Adapter Plate	Used to panel mount the SE-601 and SE-701.	<b>SE-601</b> <b>SE-701</b> <b>PGR-4300</b> <b>SE-704</b>
<b>PMA-60</b> Adapter Plate	Used to panel mount the relay; IP 53 and NEMA 3 rating, tamper resistant.	<b>SE-601</b> <b>SE-701</b> <b>PGR-4300</b> <b>SE-704</b>
<b>MPU-32-SMK</b> Surface-Mount Kit	Used to surface mount the MPU-32 or FPU-32.	<b>MPU-32</b> <b>FPU-32</b>

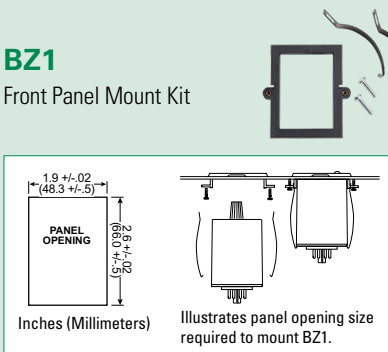
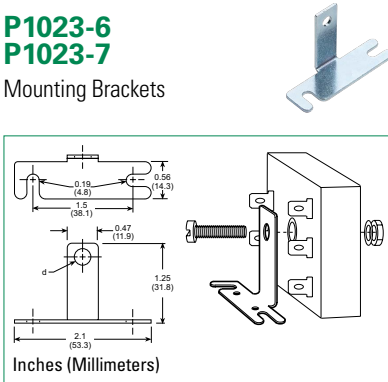



Note: Relays are not included with the PMA-Series Panel Mount Adapters.






## DIN RAIL & MOUNTING ADAPTERS





DIN RAIL & MOUNTING ADAPTERS		
Product	Features	Accessory For
<b>C103PM (AI)</b> DIN Rail 	Industry standard 35 mm aluminum or steel DIN rail. C103PM aluminum rail is available in a 36 in. (91.4 cm) length.	<b>Can be used with all DIN-rail compatible units.</b>
<b>AC700-SMK</b> Mount Adapter 	DIN-rail and Surface-mount adapter for back-plane mounting.	<b>EL731</b>
<b>D0050</b> DIN-Rail Adapter Clip 	Plastic clip allowing DIN-rail mounting of the PGR-8800 and AF0500 Arc-Flash Relay.	<b>AF0500 PGR-8800</b>
<b>P1023-20</b> DIN Rail Mount Adaptor 	Allows any 2 x 2 in (50.8 x 50.8 mm) or 2 x 3 in (50.8 x 76.2 mm) module to be mounted on a 35 mm DIN type rail. Comes complete with mounting hardware (one #10 - 24 x 1.00 screw and one #10 - 24 x 1.25 screw) for 0.75 in (19 mm) and 1 in (25.4 mm) thick modules.	<b>Consult the individual datasheet to determine part compatibility.</b>
<b>P0500-178</b> Surface Mount Adapter   <p>Inches (Millimeters)</p>	P0500-178 is surface mountable with 2 Quick Mount Fasteners.	<b>ASXX/DSXX Series Timers</b>
<b>P0500-179</b> DIN Rail Mount Adapter   <p>Inches (Millimeters)</p>	P0500-179 snaps onto DIN rail.	<b>ASXX/DSXX Series Timers</b>

# BRACKETS & CLIPS







BRACKETS & CLIPS																																			
Product		Features		Accessory For																															
<div><b>BZ1</b> Front Panel Mount Kit</div> <div></div> <div>Illustrates panel opening size required to mount BZ1.</div>		<p>Provides an easy method of through-the-panel mounting of 8-pin or 11-pin plug-in timers, flashers, and other controls. May be mounted in panels up to 0.125 in (3.2 mm) thick. Includes two clamps and two screws.</p>		<div>Series:</div> <table><tr><td>ARP</td><td>FS500</td><td>LLC4</td><td>LLC5</td><td>LLC6</td></tr><tr><td>PLM</td><td>PLMU</td><td>PLR</td><td>PLS</td><td>PRLM</td></tr><tr><td>TDB</td><td>TDBH</td><td>TDBL</td><td>TDI</td><td>TDIH</td></tr><tr><td>TDIL</td><td>TDM</td><td>TDMB</td><td>TDMH</td><td>TDML</td></tr><tr><td>TDR</td><td>TDS</td><td>TDSH</td><td>TDSL</td><td>TRB</td></tr><tr><td>TRDU</td><td>TRM</td><td>TRS</td><td>TRU</td><td></td></tr></table>		ARP	FS500	LLC4	LLC5	LLC6	PLM	PLMU	PLR	PLS	PRLM	TDB	TDBH	TDBL	TDI	TDIH	TDIL	TDM	TDMB	TDMH	TDML	TDR	TDS	TDSH	TDSL	TRB	TRDU	TRM	TRS	TRU	
ARP	FS500	LLC4	LLC5	LLC6																															
PLM	PLMU	PLR	PLS	PRLM																															
TDB	TDBH	TDBL	TDI	TDIH																															
TDIL	TDM	TDMB	TDMH	TDML																															
TDR	TDS	TDSH	TDSL	TRB																															
TRDU	TRM	TRS	TRU																																
<div><b>P1023-6</b> <b>P1023-7</b> Mounting Brackets</div> <div></div> <div>Inches (Millimeters)</div>		<p>Provides a convenient method of mounting modules. The 90 ° orientation of mounting slots makes installation/removal of modules quick and easy. Made from steel with a cadmium surface finish.</p> <table><tr><th>PART NUMBER</th><th>MOUNTING HOLE SIZE</th><th>MOUNTING METHOD</th></tr><tr><td>P1023-6</td><td>0.19 in (4.8 mm)</td><td>#8 (M4 x 0.7) screw</td></tr><tr><td>P1023-7</td><td>0.25 in (6.35 mm)</td><td>Mini-Pot</td></tr></table>		PART NUMBER	MOUNTING HOLE SIZE	MOUNTING METHOD	P1023-6	0.19 in (4.8 mm)	#8 (M4 x 0.7) screw	P1023-7	0.25 in (6.35 mm)	Mini-Pot	<p>Used on many 2" x 2" timers. Refer to individual series datasheet to determine if this accessory is compatible.</p>																						
PART NUMBER	MOUNTING HOLE SIZE	MOUNTING METHOD																																	
P1023-6	0.19 in (4.8 mm)	#8 (M4 x 0.7) screw																																	
P1023-7	0.25 in (6.35 mm)	Mini-Pot																																	
<div><b>PSCRB8</b> Hold-down Brackets</div> <div></div>		<p>Designed for use with P1011-6 socket. Securely mounts 8-pin plug-in controls in any position, and provides protection against vibration. Sold in pairs.</p>		<p>P1011-6</p>																															
<div><b>PSC8</b> <b>PSC11</b> Hold-down Clips</div> <div></div>		<p>Securely mounts plug in controls in any position. Also provides protection against vibration. Select the PSC8 for use with NDS-8, or the PSC11 for use with NDS-11 sockets. Sold in pairs.</p>		<p>NDS-8 Socket    NDS-11 Socket</p>																															
<div><b>P1023-2</b> P Clamp</div> <div></div>		<p>Removable P clamp bracket for mounting MSM series timers and FS100 and FS400 series flashers.</p>		<p>Timers series:    MSM Flasher series:    FS100    FS400</p>																															

## ENCLOSURES & WATERTIGHT COVERS

ENCLOSURES		
Product	Features	Accessory For
<b>NGRM-ENC</b> NGR Monitor Control Panel 	NEMA 4 painted steel control panel, complete with the SE-325 or SE-330, and a fused 600/480:120 V PT for relay control power. Suitable for indoor or outdoor mounting, CSA certified. When NGR Monitor is back-plane mounted, 22 mm NEMA 4 indicators and reset button are included. Please contact factory for additional information. <b>For full datasheet and ordering information, see pg. 67</b>	<b>SE-325</b> <b>SE-330</b>
<b>NEMA-3R-L A</b> Enclosure 	Metal NEMA-3R electrical box with lenses for viewing the single-phase PumpSaver® status lights. <b>H 6.0" x W 6.0" x D 4.0"</b>	<b>Single-Phase PumpSaver</b>
<b>RM-1000-ENCL</b> Enclosure 	Steel enclosure for protecting the RM1000 from weather and vandalism. Protects from UV, hail, and it seals to keep rain from contacting the RM1000 connections. The enclosure also features a built-in padlock tab (padlock not included). <b>H 6.4" x W 6.3" x D 1.7"</b>	<b>RM1000</b>

WATERTIGHT COVERS		
Product	Features	Accessory For
<b>MPU-16A-Y92A-96N</b> Watertight Cover 	Watertight cover for outdoor applications.	<b>MPU-32</b> <b>FPU-32</b>
<b>SE-IP65CVR-G</b> Watertight Cover 	Watertight cover. Tamper-resistant. IP65 protection.	<b>SE-134C</b> <b>SE-135</b> <b>SE-330</b> <b>SE-330AU</b> <b>SE-330HV</b> <b>SE-400</b>
<b>SE-IP65CVR-M</b> Watertight Cover 	Watertight cover. Tamper-resistant. IP65 protection.	<b>MPS</b> <b>FPS</b>
<b>SE-MRE-600</b> Moisture-Resistant Enclosure Kit 	Protects the connection terminals from snow and rain in outdoor applications.	<b>ER-600VC</b> <b>ER-1000HV</b>

# SOCKETS

SOCKETS																												
Product		Features	Accessory For																									
<b>OT08PC</b> Octal Socket 8-Pin		8-pin 35 mm DIN-rail or surface mount octal socket. Rated at 10 A @ 600 V ac and has pressure clamp terminals.	<b>AWG 12 to 22 (3.2 to 0.33 mm²) wire sizes. Consult individual datasheet for compatibility</b>																									
<b>NDS-8</b> Octal Socket 8-Pin Screw terminals with captive wire clamps		8-pin 35 mm DIN-rail or surface mount octal socket. Rated at 10 A @ 300 V ac. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. A spring mechanism allows easy removal. Uses PSC8 hold-down clips.	<b>Up to two #14 AWG (2.45 mm²) wire size</b> <b>Series:</b> <table><tr><td><b>ARP</b></td><td><b>FS500</b></td><td><b>LLC4</b></td><td><b>LLC5</b></td></tr><tr><td><b>PRLM</b></td><td><b>TDB</b></td><td><b>TDBH</b></td><td><b>TDBL</b></td></tr><tr><td><b>TDI</b></td><td><b>TDIH</b></td><td><b>TDIL</b></td><td><b>TDM</b></td></tr><tr><td><b>TDMB</b></td><td><b>TDMH</b></td><td><b>TDSL</b></td><td><b>TDR</b></td></tr><tr><td><b>TDS</b></td><td><b>TDSH</b></td><td><b>TRDU</b></td><td><b>TRM</b></td></tr><tr><td><b>TRM</b></td><td><b>TRS</b></td><td><b>TRU</b></td><td></td></tr></table>		<b>ARP</b>	<b>FS500</b>	<b>LLC4</b>	<b>LLC5</b>	<b>PRLM</b>	<b>TDB</b>	<b>TDBH</b>	<b>TDBL</b>	<b>TDI</b>	<b>TDIH</b>	<b>TDIL</b>	<b>TDM</b>	<b>TDMB</b>	<b>TDMH</b>	<b>TDSL</b>	<b>TDR</b>	<b>TDS</b>	<b>TDSH</b>	<b>TRDU</b>	<b>TRM</b>	<b>TRM</b>	<b>TRS</b>	<b>TRU</b>	
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<b>P1011-6</b> Octal Socket 8-Pin		8-pin surface mount socket with binder head screw terminals. Rated at 10 A @ 600 V ac. UL Listed combination when used with TDM, TDB, TDS series timers. Uses PSCRB8 hold-down brackets.	<b>Series:</b> <table><tr><td><b>ARP</b></td><td><b>FS500</b></td><td><b>LLC4</b></td><td><b>LLC5</b></td></tr><tr><td><b>PRLM</b></td><td><b>TDB</b></td><td><b>TDM</b></td><td><b>TDMB</b></td></tr><tr><td><b>TDR</b></td><td><b>TDS</b></td><td><b>TRB</b></td><td><b>TRDU</b></td></tr><tr><td><b>TRM</b></td><td><b>TRS</b></td><td><b>TRU</b></td><td></td></tr></table>		<b>ARP</b>	<b>FS500</b>	<b>LLC4</b>	<b>LLC5</b>	<b>PRLM</b>	<b>TDB</b>	<b>TDM</b>	<b>TDMB</b>	<b>TDR</b>	<b>TDS</b>	<b>TRB</b>	<b>TRDU</b>	<b>TRM</b>	<b>TRS</b>	<b>TRU</b>									
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<b>OT11PC</b> Magna Socket 11-Pin		Magna Sockets are for plug-in units	<b>11-pin Plug-in units</b> <b>Series:</b> <table><tr><td><b>ARP</b></td><td><b>LLC6</b></td><td><b>TDB</b></td><td><b>TDBH</b></td></tr><tr><td><b>TDBL</b></td><td><b>TDMB</b></td><td><b>TDS</b></td><td><b>TDSH</b></td></tr><tr><td><b>TDSL</b></td><td><b>TRB</b></td><td><b>TRDU</b></td><td><b>TRM</b></td></tr><tr><td><b>TRS</b></td><td><b>TRU</b></td><td></td><td></td></tr></table>		<b>ARP</b>	<b>LLC6</b>	<b>TDB</b>	<b>TDBH</b>	<b>TDBL</b>	<b>TDMB</b>	<b>TDS</b>	<b>TDSH</b>	<b>TDSL</b>	<b>TRB</b>	<b>TRDU</b>	<b>TRM</b>	<b>TRS</b>	<b>TRU</b>										
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<b>SD12-PC</b> Rectangle Socket 12-pin		12-pin surface Rectangle Socket.	<b>ACBC-120</b>																									
<b>NDS-11</b> 11-pin Magnal Socket Screw terminals with captive wire clamps		11 pin 35 mm DIN-rail or surface mount socket. Rated at 10 A @ 300 V ac. Surface mounted with two #6 (M 3.5 x 0.6) screws or snaps onto a 35 mm DIN rail. A spring mechanism allows easy removal. Uses PSC11 hold-down clips.	<b>AWG 12 to 22 (3.2 to 0.33 mm²) wire sizes</b> <b>Series:</b> <table><tr><td><b>ARP</b></td><td><b>LLC6</b></td><td><b>TDB</b></td><td><b>TDBH</b></td></tr><tr><td><b>TDBL</b></td><td><b>TDMB</b></td><td><b>TDS</b></td><td><b>TDSH</b></td></tr><tr><td><b>TDSL</b></td><td><b>TRB</b></td><td><b>TRDU</b></td><td><b>TRM</b></td></tr><tr><td><b>TRS</b></td><td><b>TRU</b></td><td></td><td></td></tr></table>		<b>ARP</b>	<b>LLC6</b>	<b>TDB</b>	<b>TDBH</b>	<b>TDBL</b>	<b>TDMB</b>	<b>TDS</b>	<b>TDSH</b>	<b>TDSL</b>	<b>TRB</b>	<b>TRDU</b>	<b>TRM</b>	<b>TRS</b>	<b>TRU</b>										
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