



stay connected

# Modlink Panel Interface Connectors

## Overview

Murrelektronik Modlink Panel Interface Connectors (PIC) allows you the ability to connect to controls such as a PLC or other control devices from outside a closed control cabinet without having to open the cabinet and potentially exposing live voltages. This can eliminate an unsafe environment or having to add additional arc flash protection requirements while working inside a control cabinet. The Modlink Panel Interface Connection system is a modular system that allows you to pick the frame, inserts and other options like the touch protection guard to create a custom data and power interface connection that meets your application needs.

## Features

- Available in transparent, metallic, or gray for different machine designs
- Large variety of inserts allowing many possible combinations
- Covers have an integrated spring which makes it easy to tell if it has been left open
- Locking mechanism
- Identification tag on each insert

## Agency Approvals

- UL Type Rating 1, 4, 4x, 12, 13
- IP65 protection outside
- IP20 inside with touch protection guard
- cULus, cURus
- CE



# Modlink Panel Interface Connectors

## Putting Modlink Panel Interface Connectors Together

### STEP 1

Select the insert(s) to fit your application needs



### STEP 2

Select the frame to fit one or two inserts

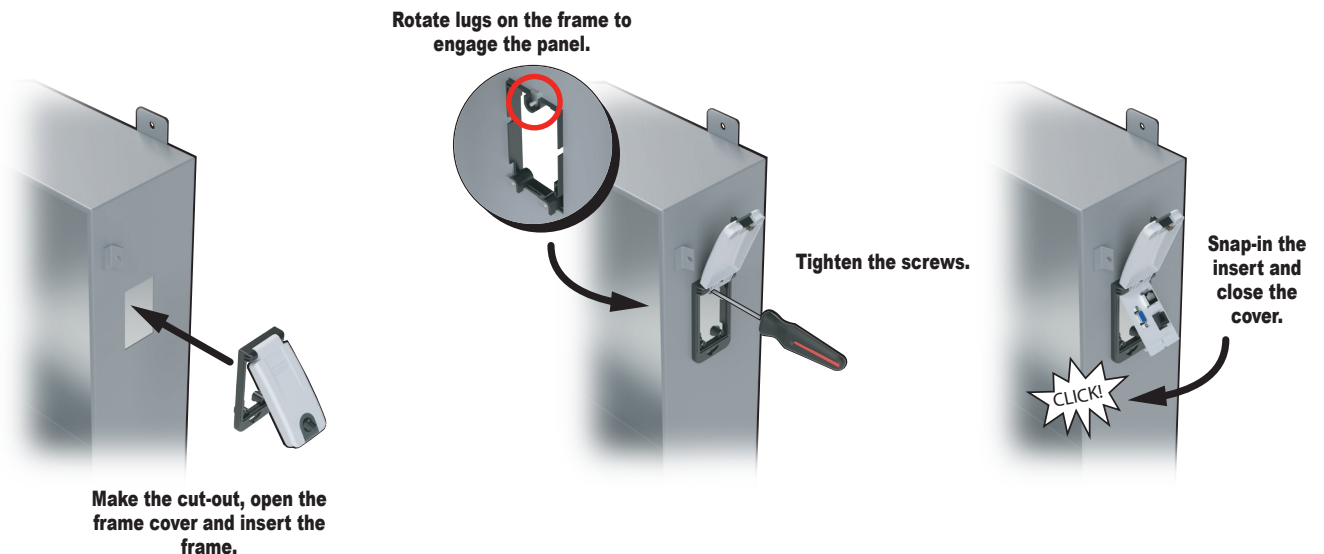


### STEP 3

Add touch protection cover (optional)

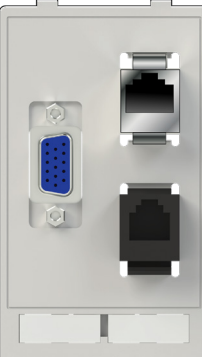
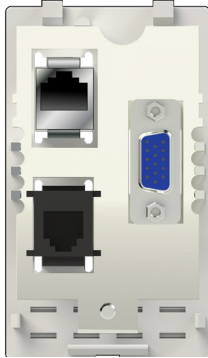
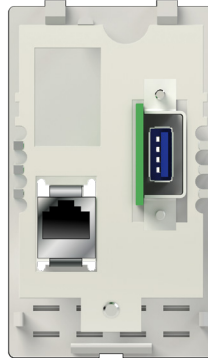


## Installing Modlink Panel Interface Connectors is Easy



# Modlink Panel Interface Connectors

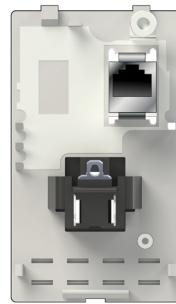
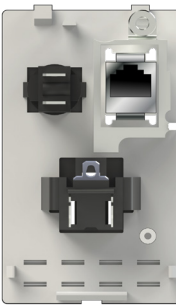
## Modlink Panel Interface Connectors - Inserts

| Modlink Panel Interface Connectors Inserts Selection Table |          |                                                                    |                                                                                     |                                                                  |                                                                                       |                  |                            |
|------------------------------------------------------------|----------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------|----------------------------|
| Inserts                                                    |          |                                                                    |                                                                                     |                                                                  |                                                                                       |                  |                            |
| Part Number                                                | Price    | Exterior Connections                                               | Exterior Photo                                                                      | Interior Connections                                             | Interior Photo                                                                        | Weight           | Drawing Link               |
| <a href="#"><u>4000-68000-1040000</u></a>                  | \$206.00 | (1) RJ45 Cat5e<br>(1) Female 15-pin D-sub HD15<br>(2) Female USB-A |    | (1) RJ45 Cat5e<br>(1) Male 15-pin D-sub HD15<br>(2) Female USB-A |    | 75g<br>[0.16 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-1120000</u></a>                  | \$98.00  | (1) RJ45 Cat5e<br>(1) Female 9-pin D-sub<br>(1) RJ12               |   | (1) RJ45 Cat5e<br>(1) Female 9-pin D-sub<br>(1) RJ12             |   | 37g<br>[0.08 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-1210000</u></a>                  | \$45.00  | (1) RJ45 Cat5e                                                     |  | (1) RJ45 Cat5e                                                   |  | 26g<br>[0.05 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-1310000</u></a>                  | \$112.00 | (1) RJ45 Cat5e<br>(1) Female USB-A                                 |  | (1) RJ45 Cat5e<br>(1) Female USB-A                               |  | 50g<br>[0.11 lb] | <a href="#"><u>PDF</u></a> |

Continued on following page.

# Modlink Panel Interface Connectors

**Modlink Panel Interface Connectors Inserts Selection Table (continued)**

| Inserts                                   |          |                                                                  |                                                                                     |                                          |                                                                                       |                  |                            |
|-------------------------------------------|----------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------|------------------|----------------------------|
| Part Number                               | Price    | Exterior Connections                                             | Exterior Photo                                                                      | Interior Connections                     | Interior Photo                                                                        | Weight           | Drawing Link               |
| <a href="#"><u>4000-68000-3240000</u></a> | \$67.00  | Single 120VAC outlet                                             |    | -                                        |    | 50g<br>[0.11 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-4030000</u></a> | \$153.00 | Single 120VAC outlet<br>(1) RJ45 Cat5e<br>(1) Female USB-A       |   | (1) RJ45 Cat5e<br>(1) Female USB-A       |   | 46g<br>[0.10 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-4040000</u></a> | \$108.00 | Single 120VAC outlet<br>(1) RJ45 Cat5e                           |  | (1) RJ45 Cat5e                           |  | 36g<br>[0.07 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-4070000</u></a> | \$132.00 | Single 120VAC outlet<br>(1) RJ45 Cat5e<br>(1) 3A circuit breaker |  | (1) RJ45 Cat5e<br>(1) 3A circuit breaker |  | 47g<br>[0.10 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-8900000</u></a> | \$9.00   | Blank plate                                                      |  | Blank plate                              |  | 18g<br>[0.03 lb] | <a href="#"><u>PDF</u></a> |

# Modlink Panel Interface Connectors

Use this checklist to quickly identify the connections in each insert.

| Modlink Panel Interface Connectors - Inserts |      |        |     |      |      |                    |
|----------------------------------------------|------|--------|-----|------|------|--------------------|
| Part Number                                  | RJ45 | USB-AA | DB9 | HD15 | RJ12 | 3A Circuit Breaker |
| <b>No Power</b>                              |      |        |     |      |      |                    |
| <a href="#">4000-68000-1040000</a>           | ✓    | ✓✓     | —   | ✓    | —    | —                  |
| <a href="#">4000-68000-1120000</a>           | ✓    | —      | ✓   | —    | ✓    | —                  |
| <a href="#">4000-68000-1210000</a>           | ✓    | —      | ✓*  | —    | —    | —                  |
| <a href="#">4000-68000-1310000</a>           | ✓    | ✓      | —   | —    | —    | —                  |
| <b>115VAC Simplex Outlet (Single)</b>        |      |        |     |      |      |                    |
| <a href="#">4000-68000-3240000</a>           | —    | —      | —   | —    | —    | —                  |
| <a href="#">4000-68000-4030000</a>           | ✓    | ✓      | —   | —    | —    | —                  |
| <a href="#">4000-68000-4040000</a>           | ✓    | —      | —   | —    | —    | —                  |
| <a href="#">4000-68000-4070000</a>           | ✓    | —      | —   | —    | —    | ✓                  |
| <b>Blank Plate</b>                           |      |        |     |      |      |                    |
| <a href="#">4000-68000-8900000</a>           | —    | —      | —   | —    | —    | —                  |

\* Note: This is a blind cover for a DB9 connector.



[4000-68000-1040000](#)



[4000-68000-1120000](#)



[4000-68000-1210000](#)



[4000-68000-1310000](#)



[4000-68000-4040000](#)



[4000-68000-4070000](#)



[4000-68000-8900000](#)

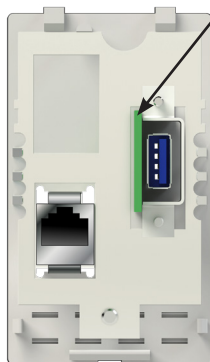


[4000-68000-3240000](#)

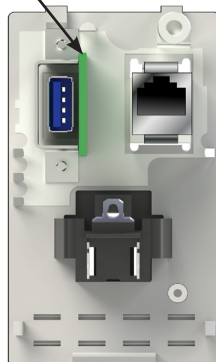


[4000-68000-4030000](#)

USB  
Cable Tie Strain Relief  
(cable tie included)



[4000-68000-1310000](#)

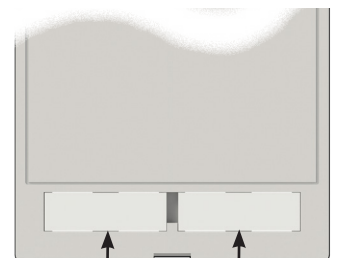


[4000-68000-4030000](#)



[4000-68000-1210000](#)

Strain Relief



Identification Tags  
(2) 6 x 19mm [1/4 x 3/4in]  
(included on each insert)



# Modlink Panel Interface Connectors

## Modlink Panel Interface Connectors - Frames



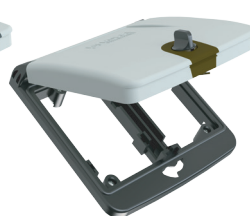
Transparent



Metallic



Gray



| Modlink Panel Interface Connectors Frames Selection Table |         |             |                                                                                     |                                                        |                            |           |                |                            |
|-----------------------------------------------------------|---------|-------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|-----------|----------------|----------------------------|
| Single Frames                                             |         |             |                                                                                     |                                                        |                            |           |                |                            |
| Part Number                                               | Price   | Cover Color | Cover Front View                                                                    | Cover Closure                                          | Wall Thickness             | Requires  | Weight         | Drawing Link               |
| <a href="#"><u>4000-68512-0000001</u></a>                 | \$38.50 | Transparent |    | 3mm double bit closure including plug-in rotation knob | 0.04 to 0.20 in [1 to 5mm] | 1 Insert  | 85g [0.18 lb]  | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68513-0000001</u></a>                 | \$42.00 | Metallic    |   |                                                        |                            |           | 87g [0.19 lb]  | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68514-0000001</u></a>                 | \$43.00 | Gray        |  |                                                        |                            |           | 96g [0.21 lb]  | <a href="#"><u>PDF</u></a> |
| Double Frames                                             |         |             |                                                                                     |                                                        |                            |           |                |                            |
| <a href="#"><u>4000-68522-0000001</u></a>                 | \$61.50 | Transparent |  | 3mm double bit closure including plug-in rotation knob | 0.04 to 0.20 in [1 to 5mm] | 2 Inserts | 148g [0.32 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68523-0000001</u></a>                 | \$68.00 | Metallic    |  |                                                        |                            |           | 152g [0.33 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68524-0000001</u></a>                 | \$69.50 | Gray        |  |                                                        |                            |           | 169g [0.37 lb] | <a href="#"><u>PDF</u></a> |

# Modlink Panel Interface Connectors

## Touch Protection Covers

### Overview

The touch protection cover mounts on the back of a frame (single or double) to increase safety inside the cabinet.

The hardware needed to secure the cover to the frame is included.

| Modlink Panel Interface Connectors Touch Protection Covers Selection Table |         |                                                                                                                        |                  |                            |
|----------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------|
| Part Number                                                                | Price   | Description                                                                                                            | Weight           | Drawing Link               |
| <a href="#"><u>4000-68000-9140000</u></a>                                  | \$44.00 | Murrelektronik Modlink touch protection cover, ABS plastic, black.<br>For use with Modlink series double frames sizes. | 91g<br>[0.20 lb] | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>4000-68000-9180000</u></a>                                  | \$24.00 | Murrelektronik Modlink touch protection cover, ABS plastic, black.<br>For use with Modlink series single frames sizes. | 36g<br>[0.07 lb] | <a href="#"><u>PDF</u></a> |



[4000-68000-9140000](#)



[4000-68000-9180000](#)



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# Modlink Panel Interface Connectors

## Modlink Panel Interface Connectors - Specifications

| Modlink Panel Interface Connectors Specifications |                                                                                                                                                               |                                                                                                                                      |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Receptacle Electrical Specifications              |                                                                                                                                                               |                                                                                                                                      |
| Voltage Rating                                    |                                                                                                                                                               | 125 VAC                                                                                                                              |
| Current Rating                                    |                                                                                                                                                               | Receptacle 15A, Resettable Circuit Breaker 3A                                                                                        |
| SCCR                                              |                                                                                                                                                               | Receptacle 10kA, Resettable Circuit Breaker 0.2 kA                                                                                   |
| Termination Type<br>* see table below             | <a href="#">4000-68000-3240000</a>                                                                                                                            | Screw connections                                                                                                                    |
|                                                   | <a href="#">4000-68000-4030000</a> , <a href="#">4000-68000-4040000</a>                                                                                       | 4.8 mm disconnect terminal or can be soldered                                                                                        |
|                                                   | <a href="#">4000-68000-4070000</a>                                                                                                                            | Receptacle 4.8 mm disconnect terminal or can be soldered<br>Resettable Circuit Breaker 6.3 mm disconnect terminal or can be soldered |
| Technical Specifications                          |                                                                                                                                                               |                                                                                                                                      |
| Agency Approvals                                  |                                                                                                                                                               | cULus, cURus, CE                                                                                                                     |
| Degree of Protection                              |                                                                                                                                                               | UL Type Rating 1, 4, 4x, 12, 13 IP65 outside<br>With touch protection cover IP20 inside                                              |
| Operating Temperature                             | Frames                                                                                                                                                        | -22 to 158°F [-30 to 70°C]                                                                                                           |
|                                                   | Inserts ( <a href="#">4000-68000-1040000</a> , <a href="#">4000-68000-1210000</a> , <a href="#">4000-68000-8900000</a> )                                      | -4 to 140°F [-20 to 60°C]                                                                                                            |
|                                                   | Inserts ( <a href="#">4000-68000-1310000</a> , <a href="#">4000-68000-3240000</a> , <a href="#">4000-68000-4030000</a> , <a href="#">4000-68000-4070000</a> ) | 41 to 104°F [5 to 40°C]                                                                                                              |
|                                                   | Touch Protection Cover                                                                                                                                        | 32 to 122°F [0 to 50°C]                                                                                                              |
| Shock According to EN 60068-2-6                   |                                                                                                                                                               | 10 to 500 Hz, 2g                                                                                                                     |
| Vibration According to EN 60068-2-27              |                                                                                                                                                               | 1/2 sin 15g, 11ms                                                                                                                    |
| Suggested Screw Torque                            | Secure Frame to Cabinet                                                                                                                                       | 5.3 +/- 0.9 lb•in [0.6 +/- 0.1 N•m]                                                                                                  |
|                                                   | Secure Insert to Frame                                                                                                                                        |                                                                                                                                      |
| Material and Color Specifications                 |                                                                                                                                                               |                                                                                                                                      |
| Frame                                             | Material                                                                                                                                                      | Polyamide (PA)                                                                                                                       |
| Frame                                             | Color                                                                                                                                                         | Black                                                                                                                                |
| Frame Cover Material                              | Transparent Models <a href="#">4000-68512-0000001</a> , <a href="#">4000-68522-0000001</a>                                                                    | Polycarbonate (PC)                                                                                                                   |
|                                                   | Metallic Models <a href="#">4000-68513-0000001</a> , <a href="#">4000-68523-0000001</a>                                                                       | Acrylonitrile butadiene styrene (ABS)                                                                                                |
|                                                   | Gray Models <a href="#">4000-68514-0000001</a> , <a href="#">4000-68524-0000001</a>                                                                           | Polybutylene terephthalate (PBT)                                                                                                     |
| Frame Separator                                   | Material                                                                                                                                                      | Polyamide (PA)                                                                                                                       |
|                                                   | Color                                                                                                                                                         | Black                                                                                                                                |
| Plug-in Rotation Knob                             | Material                                                                                                                                                      | Polybutylene terephthalate (PBT)                                                                                                     |
|                                                   | Color                                                                                                                                                         | Black                                                                                                                                |
| Insert                                            |                                                                                                                                                               | Polybutylene terephthalate (PBT)                                                                                                     |
| Touch Protection Cover                            | Material                                                                                                                                                      | Polycarbonate (PC) and Acrylonitrile butadiene styrene (ABS)                                                                         |
|                                                   | Color                                                                                                                                                         | Black                                                                                                                                |

| Recommended Disconnect Terminals |                             |           |         |               |
|----------------------------------|-----------------------------|-----------|---------|---------------|
| Item                             | Disconnect Terminal         | Wire Size |         | Terminal Size |
|                                  |                             | AWG       | mm²     |               |
| Receptacle                       | <a href="#">V70FH004003</a> | 20-18     | 0.5-1   | 4.8 x 0.5     |
|                                  | <a href="#">V70FH004004</a> |           |         | 4.8 x 0.8     |
|                                  | <a href="#">V70FH004008</a> | 16-14     | 1.5-2.5 | 4.8 x 0.5     |
|                                  | <a href="#">V70FH004009</a> |           |         | 4.8 x 0.8     |
| Resettable Breaker               | <a href="#">V70FH004005</a> | 20-18     | 0.5-1   | 6.3 x 0.9     |
|                                  | <a href="#">V70FH004010</a> | 16-14     | 1.5-2.5 |               |
|                                  | <a href="#">V70FH004011</a> | 12-10     | 4-6     |               |





# Panel Interface Connectors



## Overview

### What is a Panel Interface Connector?

A panel interface connector (PIC) is a pass-through unit that mounts to the outside of a control panel containing a PLC or other programmable device. Using the pass-through connections, the operator is able to interface with the PLC or other units within the control box without opening the enclosure door. PICs usually contain a power outlet and various connectors necessary for the PLC or other programmable units in the control box. ZipPort PICs are available with single, duplex or GFCI power outlets, as well as a no-power option. Connectors available include D-Sub, RJ45, RJ12, USB, Ethernet, and Data Highway; units are available in various combinations needed for the typical control panel.

### Why should I use a Panel Interface Connector?

Installing a PIC on an enclosure allows the operator to access the components inside the enclosure without opening the door. This is an important safety feature which removes many of the risks of working with an open electrical panel. Using a PIC may also eliminate the need for operators to wear fire-resistant suits, hoods and gloves, and use non-conductive tools, prior to accessing electrical enclosures capable of producing Arc Flash\*, per NFPA 70E requirements.

*\*Note: An Arc Flash is a voltage breakdown of resistance of air, resulting in an arc which can occur where there is sufficient voltage in an electrical system and a path to ground or lower voltage.*



## Features

- Aluminum housing with gasket
- All connections are normally straight through, pin 1 to pin 1, etc.
- All D-Sub connectors are FEMALE EXTERIOR and MALE INTERIOR referenced to the cabinet.
- The 9-pin D-Sub pin configuration is available as a break out configuration in some units. These connectors allow for the D-Sub to be separated into individual lines. This allows the user to connect to the D-Sub using screw terminal connections.
- Some units are configured for Allen Bradley's® Data Highway system. In this case, the 9-pin D-Sub and/or 8-pin "mini-DIN" are connected to a 3-pin pluggable terminal block commonly used with "BLUE HOSE" applications.
- The internal power connection for frame sizes 32 and 48 is made via a covered terminal block with spring-type connections.
- The internal power connection for frame sizes 16 and 24 is made via female push-on terminals for Line-in and Neutral, plus a ring terminal for ground.
- The standard reset is a 3 Amp circuit breaker to limit the power output of the unit.
- \*Registered trademark of Allen Bradley Company, LLC

## Agency Approvals

- NEMA / UL Type 12, 4, & 4x
- IP65
- UL file number E495019
- CE



# Panel Interface Connectors Specifications

| ZIPport Panel Interface Connectors Specifications                                            |          |              |                                                      |                                |                                                    |                               |
|----------------------------------------------------------------------------------------------|----------|--------------|------------------------------------------------------|--------------------------------|----------------------------------------------------|-------------------------------|
| Part Number                                                                                  | Price    | Housing Size | Outside Connections<br>(excluding power outlet)      | Outside Cable(s)†<br>(Table 1) | Inside Connections<br>(excluding power outlet)     | Inside Cable(s)†<br>(Table 1) |
| <i>The port sequence is exactly the same for outside connections and inside connections.</i> |          |              |                                                      |                                |                                                    |                               |
| <b>No power</b>                                                                              |          |              |                                                      |                                |                                                    |                               |
| <a href="#"><u>ZP-PNA-06-100</u></a>                                                         | \$80.00  | 6            | Female DB9                                           | 1, 3                           | Male DB9                                           | 1, 2, 4, 5, 7                 |
| <a href="#"><u>ZP-PNA-06-101</u></a>                                                         | \$71.00  | 6            | RJ45 jack                                            |                                | RJ45 jack                                          | 8                             |
| <a href="#"><u>ZP-PNA-10-200</u></a>                                                         | \$84.00  | 10           | 2 - Female DB9                                       | 1, 3                           | 2 - Male DB9                                       | 1, 2, 4, 5, 7                 |
| <b>115VAC Simplex outlet (single)</b>                                                        |          |              |                                                      |                                |                                                    |                               |
| <a href="#"><u>ZP-PSA-16-100</u></a>                                                         | \$135.00 | 16           | Female DB9                                           | 1, 3                           | Male DB9                                           | 1, 2, 4, 5, 7                 |
| <a href="#"><u>ZP-PSA-16-101</u></a>                                                         | \$137.00 | 16           | RJ45 jack                                            |                                | RJ45 jack                                          | 8                             |
| <a href="#"><u>ZP-PSA-16-102</u></a>                                                         | \$137.00 | 16           | RJ12 jack                                            | 4, 5, 12                       | RJ12 jack                                          | 4, 5, 7                       |
| <a href="#"><u>ZP-PSA-16-103</u></a>                                                         | \$137.00 | 16           | Female HD15                                          |                                | Male HD15                                          |                               |
| <a href="#"><u>ZP-PSA-16-104</u></a>                                                         | \$137.00 | 16           | Female DB15                                          | 9                              | Male DB15                                          | 9                             |
| <a href="#"><u>ZP-PSA-16-200*</u></a>                                                        | \$143.00 | 16           | Female DB9                                           | 1, 3                           | Male DB9                                           | 1, 2, 4, 5, 7                 |
| <a href="#"><u>ZP-PSA-24-100*</u></a>                                                        | \$143.00 | 24           | Female DB25                                          |                                | Male DB25                                          | 10                            |
| <a href="#"><u>ZP-PSA-32-300*</u></a>                                                        | \$219.00 | 32           | Female DB9, Female USB Form B                        | 1, 3, 6                        | Male DB9, Female USB form A                        | 1, 2, 3, 4, 5, 6, 7           |
| <a href="#"><u>ZP-PSA-32-400*</u></a>                                                        | \$235.00 | 32           | 2 - Female DB9, RJ45 jack                            | 1, 3                           | 2 - Male DB9, RJ45 jack                            | 1, 2, 4, 5, 7, 8              |
| <b>115VAC Duplex outlet</b>                                                                  |          |              |                                                      |                                |                                                    |                               |
| <a href="#"><u>ZP-PDA-32-200*</u></a>                                                        | \$174.00 | 32           | Female DB9                                           | 1, 3                           | Male DB9                                           | 1, 2, 4, 5, 7                 |
| <a href="#"><u>ZP-PDA-32-201*</u></a>                                                        | \$178.00 | 32           | RJ45 jack                                            |                                | RJ45 jack                                          | 8                             |
| <a href="#"><u>ZP-PDA-32-202*</u></a>                                                        | \$184.00 | 32           | Female USB form A                                    | 3                              | Female USB form A                                  | 3, 6                          |
| <a href="#"><u>ZP-PDA-32-300*</u></a>                                                        | \$184.00 | 32           | Female DB9, RJ45 jack                                | 1, 3                           | Male DB9, RJ45 jack                                | 1, 2, 4, 5, 7, 8              |
| <a href="#"><u>ZP-PDA-32-301*</u></a>                                                        | \$229.00 | 32           | Female DB9, RJ45 jack                                | 1, 3                           | 9-Pin terminal block, RJ45 jack                    | 8                             |
| <a href="#"><u>ZP-PDA-32-302*</u></a>                                                        | \$179.00 | 32           | Female DB9, Female USB Form B                        | 1, 3, 6                        | Male DB9, Female USB Form A                        | 1, 2, 3, 4, 5, 6, 7           |
| <a href="#"><u>ZP-PDA-32-303*</u></a>                                                        | \$222.00 | 32           | Female DB9, Female 8-Pin Mini-Din                    | 1, 3                           | 3-pin terminal block, (Data Highway)               |                               |
| <a href="#"><u>ZP-PDA-32-304*</u></a>                                                        | \$224.00 | 32           | Female DB9, RJ45 jack                                | 1, 3                           | 3-pin terminal block, (Data Highway), RJ45 jack    | 8                             |
| <a href="#"><u>ZP-PDA-32-305*</u></a>                                                        | \$179.00 | 32           | Female DB9, Female USB form A                        | 1, 3, 6                        | Male DB9, Female USB form A                        | 1, 2, 3, 4, 5, 6, 7           |
| <a href="#"><u>ZP-PDA-32-400*</u></a>                                                        | \$201.00 | 32           | 2 - Female DB9, Female USB form B                    | 1, 3, 6                        | 2 - Male DB9, Female USB form A                    | 1, 2, 3, 4, 5, 6, 7           |
| <a href="#"><u>ZP-PDA-32-401*</u></a>                                                        | \$231.00 | 32           | Female DB9, Female USB form B, Female USB form A     | 1, 3, 6                        | Male DB9, Female USB form A, Female USB form B     | 1, 2, 3, 4, 5, 6, 7           |
| <a href="#"><u>ZP-PDA-32-402*</u></a>                                                        | \$232.00 | 32           | RJ45 jack, Female USB form B, Female USB form A      | 3, 6                           | RJ45 jack, Female USB form A, Female USB form B    | 3, 6, 8                       |
| <a href="#"><u>ZP-PDA-32-403*</u></a>                                                        | \$208.00 | 32           | Female DB9, RJ12 jack, Female USB form A             | 1, 3, 4, 5                     | Male DB9, RJ12 jack, Female USB form A             | 1, 2, 3, 4, 5, 6, 7           |
| <b>115VAC GFCI outlet</b>                                                                    |          |              |                                                      |                                |                                                    |                               |
| <a href="#"><u>ZP-PGA-32-200*</u></a>                                                        | \$221.00 | 32           | Female DB9                                           | 1, 3                           | Male DB9                                           | 1, 2, 4, 5, 7                 |
| <a href="#"><u>ZP-PGA-32-201*</u></a>                                                        | \$221.00 | 32           | RJ45 jack                                            |                                | RJ45 jack                                          | 8                             |
| <a href="#"><u>ZP-PGA-32-300*</u></a>                                                        | \$224.00 | 32           | Female DB9, RJ45 jack                                | 1, 3                           | Male DB9, RJ45 jack                                | 1, 2, 4, 5, 7, 8              |
| <a href="#"><u>ZP-PGA-32-301*</u></a>                                                        | \$290.00 | 32           | Female DB9, Female USB form B                        | 1, 3, 6                        | Male DB9, Female USB form A                        | 1, 2, 3, 4, 5, 6, 7           |
| <a href="#"><u>ZP-PGA-48-400*</u></a>                                                        | \$388.00 | 48           | Female DB9, Female USB form B, Female USB form A     | 1, 3, 6                        | Male DB9, Female USB form A, Female USB form B     | 1, 2, 3, 4, 5, 6, 7           |
| <a href="#"><u>ZP-PGA-48-500*</u></a>                                                        | \$360.00 | 48           | 2 - Female DB9, Female USB form B, Female USB form A | 1, 3, 6                        | 2 - Male DB9, Female USB form A, Female USB form B | 1, 2, 3, 4, 5, 6, 7           |

†Note: Based on application. \*Note: 3 Amp resettable circuit breaker. Note: Port sequence for inside connections mirrors port sequence for outside connections.



# Panel Interface Connectors Specifications

| ZIPport Panel Interface Connectors General Specifications      |                                                                                                                      |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <i>Electrical Specifications for PICs with Power Outlet(s)</i> |                                                                                                                      |
| <b>Voltage Rating</b>                                          | 115 VAC                                                                                                              |
| <b>Current Rating</b>                                          | 3A with resettable circuit breaker, 15A without resettable circuit breaker                                           |
| <b>SCCR</b>                                                    | 10kA<br>0.2 kA (for units with 3A resettable Circuit Breaker)                                                        |
| <i>Technical Specs</i>                                         |                                                                                                                      |
| <b>Agency Approvals *</b>                                      | UL Recognized, CE                                                                                                    |
| <b>Degree of Protection</b>                                    | IP65, NEMA/UL 4, 4x,12 (when mounted with supplied gasket)                                                           |
| <b>Operating Temperature</b>                                   | 14 to 176°F [-10 to 75°C]                                                                                            |
| <b>Suggested Mounting Screw</b>                                | #8 -32 x 3/4" for housing sizes 6 through 32. #10 - 32 x 3/4" for size 48 Mounting screws not included with product. |
| <b>Suggested Screw Torque</b>                                  | 10.62 lb/in for housing sizes 6 through 32. 17.7 lb/in for housing size 48                                           |
| <i>Material Specifications</i>                                 |                                                                                                                      |
| <b>Body</b>                                                    | Epoxy-coated Die-cast Aluminum                                                                                       |
| <b>Gasket</b>                                                  | Thermo-plastic (TPE)                                                                                                 |
| <b>Handle</b>                                                  | Polyamide                                                                                                            |
| <b>Levers</b>                                                  | Stainless Steel                                                                                                      |
| <i>Accessories</i>                                             |                                                                                                                      |

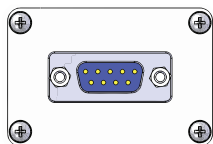
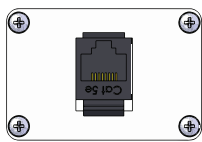
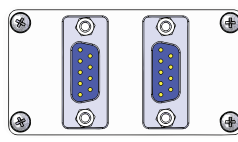
One gasket supplied and required during mounting to meet Degree of Protection standards.  
Insert with Panel Cutout dimensions for mounting.

| Table 1           |                                                           |                                                            |
|-------------------|-----------------------------------------------------------|------------------------------------------------------------|
| <i>Cable Code</i> | <i>Cable Part Number</i>                                  | <i>Cable Description</i>                                   |
| 1                 | <a href="#">ZL-DB9-CBL-2</a>                              | Male DB9 to Female DB9 adapter cable                       |
| 2                 | <a href="#">SVC-PCCFG-CBL</a>                             | Female DB9 to Female Firewire Servo adapter cable          |
| 3                 | <a href="#">USB-RS232-1</a>                               | USB A to RS-232 (9-pin D-sub male)                         |
| 4                 | <a href="#">D2-DSCBL</a> or <a href="#">GS-EDRV-CBL-2</a> | Programming cable for DL05/06, DL205, DL350, D4-454, Click |
| 5                 | <a href="#">GS-232CBL</a>                                 | RJ12 to Female DB9 for GS2 DRIVES ONLY                     |
| 6                 | USB-CBL-ABxx                                              | USB form A to USB form B cable series                      |
| 7                 | <a href="#">FA-ISOCOCON</a>                               | RS232 - RS422/485 converter                                |
| 8                 | <a href="#">ZL-DB15-CBL-2</a>                             | Male DB15 to Female DB15 adapter cable                     |
| 9                 | <a href="#">ZL-DB25-CBL-2</a>                             | Male DB25 to Female DB25 adapter cable                     |

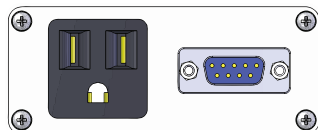
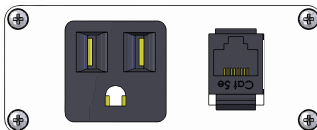
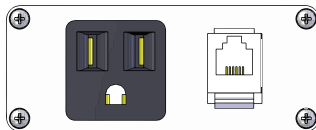
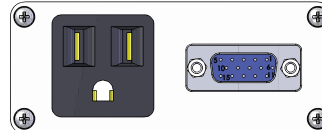
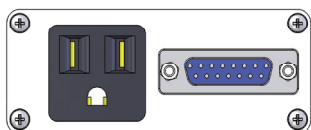
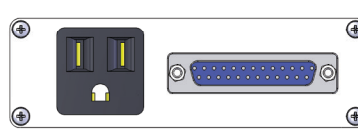
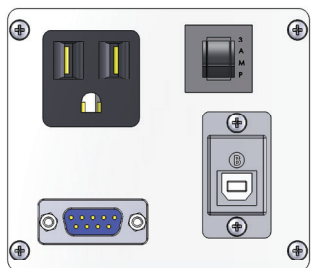
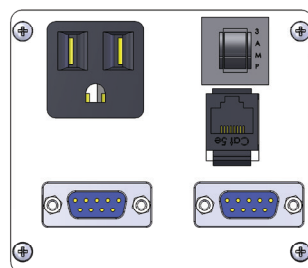
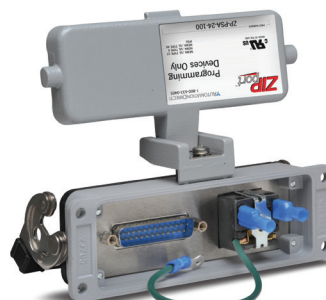


# Panel Interface Connectors Face View

## No Power

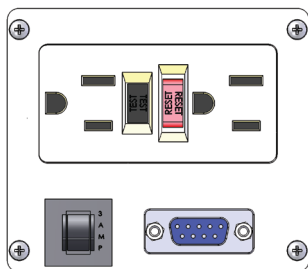
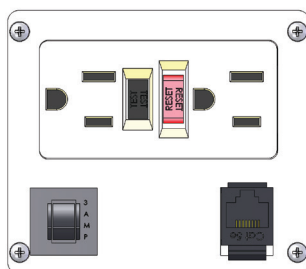
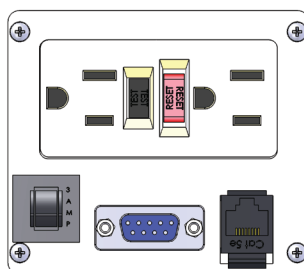
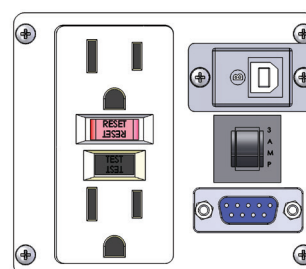
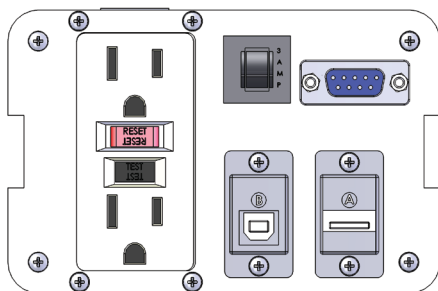
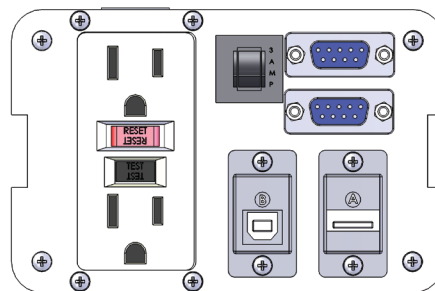
**ZP-PNA-06-100****ZP-PNA-06-101****ZP-PNA-10-200**

## Simplex Outlet, 115V AC

**ZP-PSA-16-100****ZP-PSA-16-101****ZP-PSA-16-102****ZP-PSA-16-103****ZP-PSA-16-104****ZP-PSA-16-200****ZP-PSA-24-100****ZP-PSA-32-300****ZP-PSA-32-400**

Back view of **ZP-PSA-24-100** Crimp terminals are supplied for hot and neutral connection for housing sizes 6 through 24. Ground wire supplied with an M3 ring terminal (recommended screw size #6).

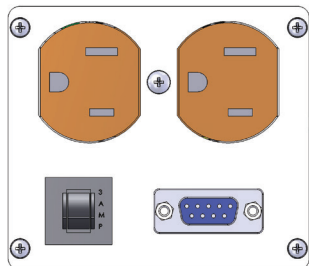
## GFCI Outlet, 115V AC

**ZP-PGA-32-200****ZP-PGA-32-201****ZP-PGA-32-300****ZP-PGA-32-301****ZP-PGA-48-400****ZP-PGA-48-500**

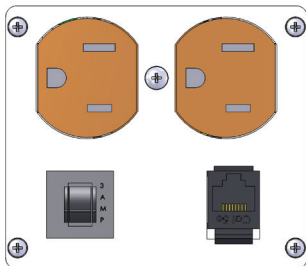


# Panel Interface Connectors Face View

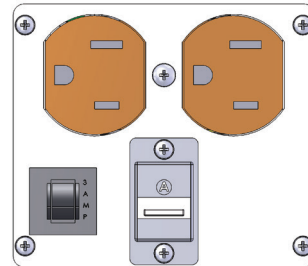
## Duplex Outlet, 115V AC



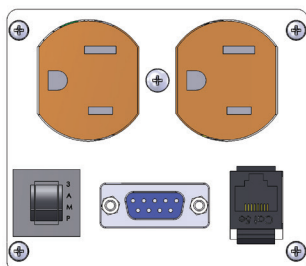
**ZP-PDA-32-200**



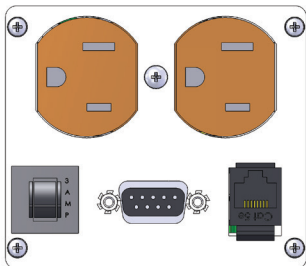
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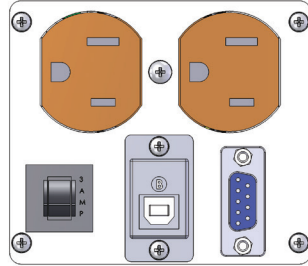
**ZP-PDA-32-202**



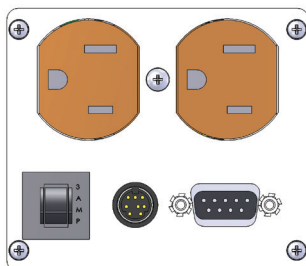
**ZP-PDA-32-300**



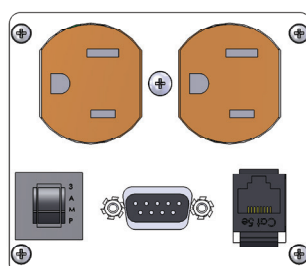
**ZP-PDA-32-301**



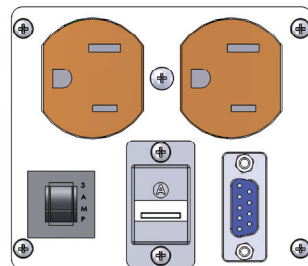
**ZP-PDA-32-302**



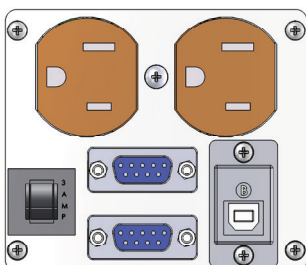
**ZP-PDA-32-303**



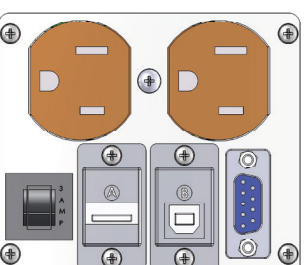
**ZP-PDA-32-304**



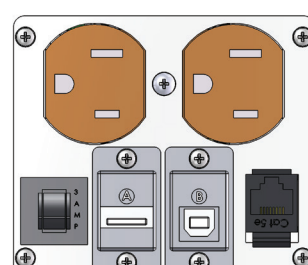
**ZP-PDA-32-305**



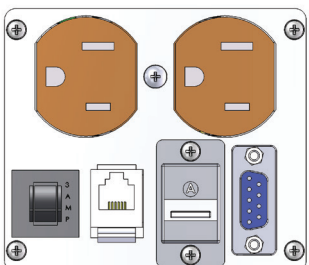
**ZP-PDA-32-400**



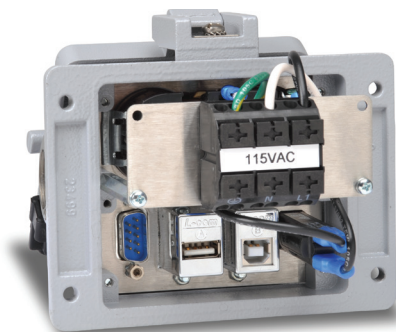
**ZP-PDA-32-401**



**ZP-PDA-32-402**



**ZP-PDA-32-403**

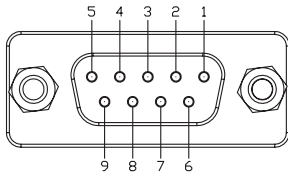




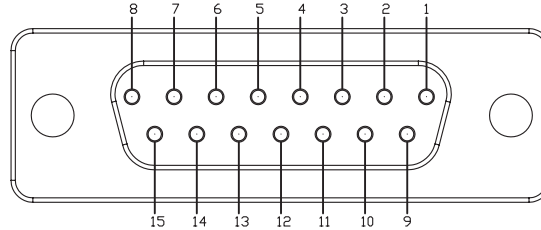


# Panel Interface Connectors Pin Outs

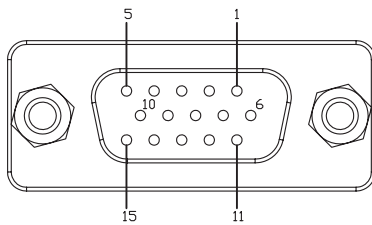
**DB9 Pin Configuration**  
View looking into Female connector



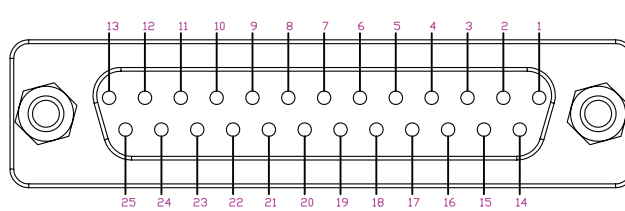
**DB15 Pin Configuration**  
View looking into Female connector



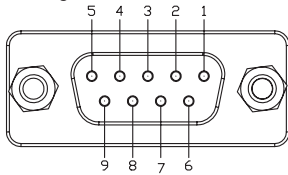
**HD15 Pin Configuration**  
View looking into Female connector



**DB25 Pin Configuration**  
View looking into Female connector



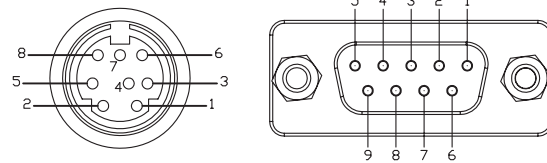
**DB9 Data Highway Plus Pin Configuration**  
View looking into Female connector



**DB9 to Phoenix 3-Pin connector**

|   |        |
|---|--------|
| 1 | Clear  |
| 5 | Blue   |
| 7 | Shield |

**DB9 + 8-Pin Mini-Din Data Highway Plus Pin Configuration**  
View looking into Female connector



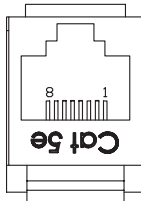
**DB9 to Phoenix 3-Pin connector**

|   |        |
|---|--------|
| 1 | Clear  |
| 5 | Blue   |
| 7 | Shield |

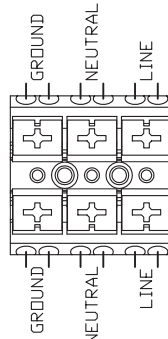
**8-Pin Mini to Phoenix 3-Pin connector**

|   |        |
|---|--------|
| 1 | Blue   |
| 3 | Shield |
| 6 | Clear  |

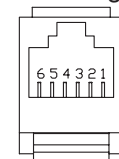
**RJ45 Pin Configuration**



**Terminal Block Pin Configuration for Power**



**RJ12 Pin Configuration**







# Panel Interface Connectors

## Quick Reference Chart

Use this checklist to quickly identify the connections in each panel interface connector.

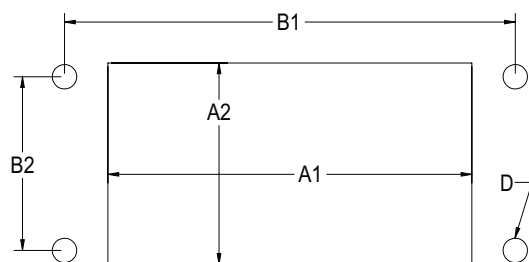
| ZIPport Panel Interface Connectors     |     |      |      |      |      |      |        |        |        |           |                     |                                  |
|----------------------------------------|-----|------|------|------|------|------|--------|--------|--------|-----------|---------------------|----------------------------------|
| Part Number                            | DB9 | DB15 | HD15 | DB25 | RJ12 | RJ45 | USB-AB | USB-BA | USB-AA | 8-Pin DIN | Data Hwy Connection | 3 Amp Resettable Circuit Breaker |
| <b>No power</b>                        |     |      |      |      |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PNA-06-100</a>          | √   |      |      |      |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PNA-06-101</a>          |     |      |      |      |      | √    |        |        |        |           |                     |                                  |
| <a href="#">ZP-PNA-10-200</a>          | √√  |      |      |      |      |      |        |        |        |           |                     |                                  |
| <b>115 VAC Simplex outlet (single)</b> |     |      |      |      |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PSA-16-100</a>          | √   |      |      |      |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PSA-16-101</a>          |     |      |      |      |      | √    |        |        |        |           |                     |                                  |
| <a href="#">ZP-PSA-16-102</a>          |     |      |      |      | √    |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PSA-16-103</a>          |     |      | √    |      |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PSA-16-104</a>          |     | √    |      |      |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PSA-16-200</a>          | √   |      |      |      |      |      |        |        |        |           |                     | √                                |
| <a href="#">ZP-PSA-24-100</a>          |     |      |      | √    |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PSA-32-300</a>          | √   |      |      |      |      |      |        | √      |        |           |                     | √                                |
| <a href="#">ZP-PSA-32-400</a>          | √√  |      |      |      |      | √    |        |        |        |           |                     | √                                |
| <b>115 VAC Duplex outlet</b>           |     |      |      |      |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PDA-32-200</a>          | √   |      |      |      |      |      |        |        |        |           |                     | √                                |
| <a href="#">ZP-PDA-32-201</a>          |     |      |      |      |      | √    |        |        |        |           |                     | √                                |
| <a href="#">ZP-PDA-32-202</a>          |     |      |      |      |      |      |        |        | √      |           |                     | √                                |
| <a href="#">ZP-PDA-32-300</a>          | √   |      |      |      |      | √    |        |        |        |           |                     | √                                |
| <a href="#">ZP-PDA-32-301*</a>         | √   |      |      |      |      | √    |        |        |        |           |                     | √                                |
| <a href="#">ZP-PDA-32-302</a>          | √   |      |      |      |      |      |        | √      |        |           |                     | √                                |
| <a href="#">ZP-PDA-32-303</a>          | √   |      |      |      |      |      |        |        |        | √         | √                   | √                                |
| <a href="#">ZP-PDA-32-304</a>          | √   |      |      |      |      | √    |        |        |        |           | √                   | √                                |
| <a href="#">ZP-PDA-32-305</a>          | √   |      |      |      |      |      |        |        | √      |           |                     | √                                |
| <a href="#">ZP-PDA-32-400</a>          | √√  |      |      |      |      |      |        | √      |        |           |                     | √                                |
| <a href="#">ZP-PDA-32-401</a>          | √   |      |      |      |      |      | √      | √      |        |           |                     | √                                |
| <a href="#">ZP-PDA-32-402</a>          |     |      |      |      |      | √    | √      | √      |        |           |                     | √                                |
| <a href="#">ZP-PDA-32-403</a>          | √   |      |      |      | √    |      |        |        | √      |           |                     | √                                |
| <b>115 VAC GFCI outlet</b>             |     |      |      |      |      |      |        |        |        |           |                     |                                  |
| <a href="#">ZP-PGA-32-200</a>          | √   |      |      |      |      |      |        |        |        |           |                     | √                                |
| <a href="#">ZP-PGA-32-201</a>          |     |      |      |      |      | √    |        |        |        |           |                     | √                                |
| <a href="#">ZP-PGA-32-300</a>          | √   |      |      |      |      | √    |        |        |        |           |                     | √                                |
| <a href="#">ZP-PGA-32-301</a>          | √   |      |      |      |      |      |        | √      |        |           |                     | √                                |
| <a href="#">ZP-PGA-48-400</a>          | √   |      |      |      |      |      | √      | √      |        |           |                     | √                                |
| <a href="#">ZP-PGA-48-500</a>          | √√  |      |      |      |      |      | √      | √      |        |           |                     | √                                |

\* Note: This DB9 becomes a 9-pin terminal block in the back.



# Panel Interface Connectors Dimensions

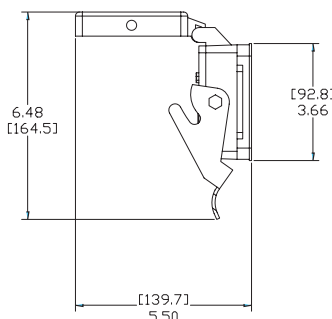
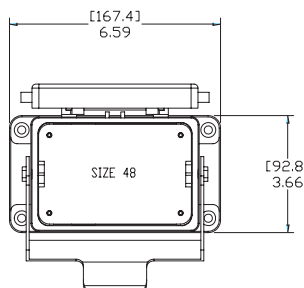
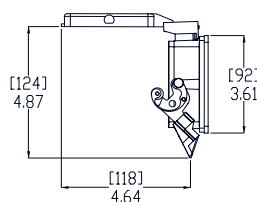
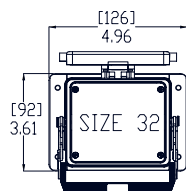
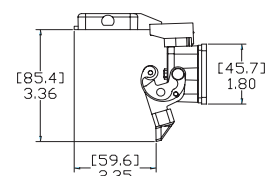
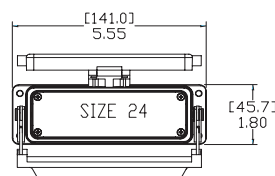
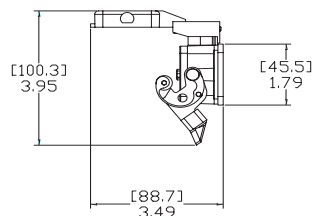
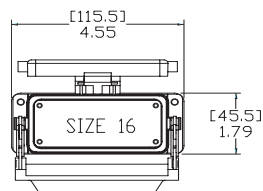
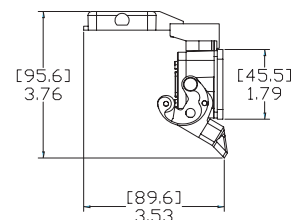
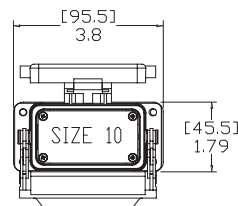
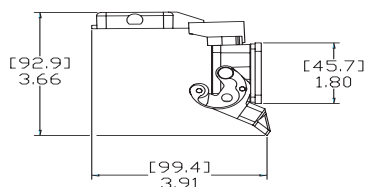
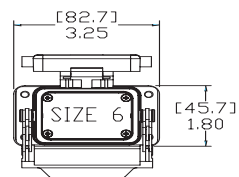
## Panel Cutout Dimensions



| Panel Cutout Dimensions                         |      |                 |                |                 |                 |                 |
|-------------------------------------------------|------|-----------------|----------------|-----------------|-----------------|-----------------|
| Part                                            | Size | A1              | A2             | B1              | B2              | D               |
| ZP-PNA-06-xxx                                   | 6    | 2.13<br>[54.1]  | 1.46<br>[37.1] | 2.76<br>[70.10] | 1.26<br>[32.00] | 0.177<br>[4.50] |
| ZP-PNA-10-xxx                                   | 10   | 2.64<br>[67.1]  | 1.46<br>[37.1] | 3.27<br>[83.1]  | 1.26<br>[32.00] | 0.177<br>[4.50] |
| ZP-PSA-16-xxx                                   | 16   | 3.46<br>[87.9]  | 1.46<br>[37.1] | 4.07<br>[103.4] | 1.26<br>[32.00] | 0.177<br>[4.50] |
| ZP-PSA-24-xxx                                   | 24   | 4.10<br>[104.1] | 1.46<br>[37.1] | 5.12<br>[130.0] | 1.26<br>[32.00] | 0.177<br>[4.50] |
| ZP-PSA-32-xxx<br>ZP-PDA-32-xxx<br>ZP-PGA-32-xxx | 32   | 3.46<br>[87.9]  | 2.99<br>[75.9] | 4.33<br>[110.0] | 2.56 [65.0]     | 0.177<br>[4.50] |
| ZP-PGA-48-xxx                                   | 48   | 4.92<br>[125.0] | 3.19<br>[81.0] | 5.83<br>[148.1] | 2.76<br>[70.10] | 0.256<br>[6.50] |

Note: All dimensions in inches [millimeters]

## Housing Dimensions



Note: See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering Drawings.