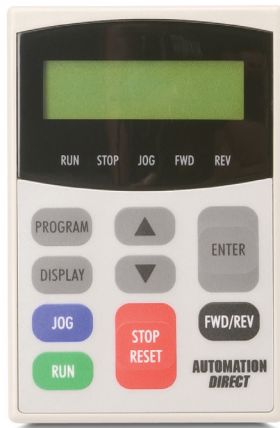
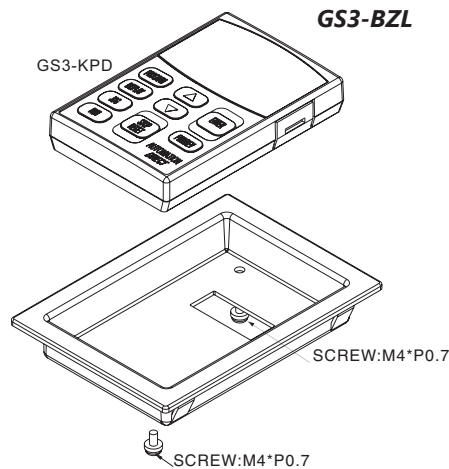
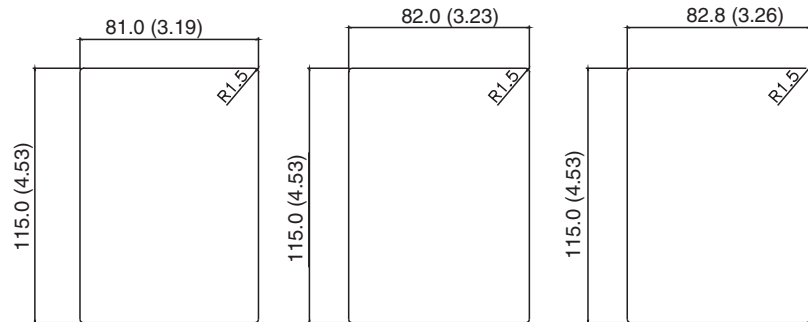


# GS1,GS2,GS3/DURApulse Accessories – Miscellaneous

**GS3-KPD****ZL-CDM-RJ12x4****ZL-CDM-RJ12x10****GS3-BZL**

The GS3-BZL Flush Mount Bezel Kit allows remote mounting of the DURApulse removable keypad. The Bezel Kit has a Protected Chassis, IP20 enclosure rating. The thickness of the panel will determine required hole dimensions:

$t = 1.0 (.0393) - 1.4 (.0551)$      $t = 1.6 (.629) - 2.0 (.0787)$      $t = 2.2 (.0866) - 3.0 (.1181)$

**GS-CBL2-1L****GS-CBL2-5L**

| GS1, GS2, GS3/DURApulse Drives Miscellaneous Accessories  |                         |  |          |
|---|-------------------------|--|----------|
| Part Number   | Drive Model             | Description  | Price    |
| <b>GS-CBL2-1L</b>   | GS2, GS3/DURApulse      | One meter keypad cable (installation screws included)  | \$04yo:  |
| <b>GS-CBL2-3L</b>   | GS2, GS3/DURApulse      | Three meter keypad cable (installation screws included)  | \$04yp:  |
| <b>GS-CBL2-5L</b>   | GS2, GS3/DURApulse      | Five meter keypad cable (installation screws included)   | \$04yq:  |
| <b>GS3-KPD</b>  | GS3/DURApulse           | Spare or replacement keypad for DURApulse AC drives; great for maintenance or back-up programs | Retired  |
| <b>GS3-BZL</b>  | GS3/DURApulse           | Flush Mount Bezel Kit for remote mounting of the DURApulse removable keypad                    | \$;06fh: |
| <b>ZL-CDM-RJ12X4</b>  | GS1, GS2, GS3/DURApulse | ZIPLink 4-port communication distribution module, 4 RJ12 ports, and 1 screw terminal port      | \$;08f8: |
| <b>ZL-CDM-RJ12X10</b>   | GS1, GS2, GS3/DURApulse | ZIPLink 10-port communication distribution module, 10 RJ12 ports, and 1 screw terminal port    | \$;08f7: |
| Optional ZipLink serial communication cables available for plug and play connectivity to AutomationDirect PLCs. See the comm cable selection matrix on page <a href="#">pg.tGSX-171</a> . |                         |  |          |

# GS3/DURAPULSE Accessories – Replacement Parts

GS3/DURAPULSE AC drives 3 hp and larger have built-in cooling fans, and replacement fans are also available. These fans are direct replacements for the internal factory-installed fans.



**WARNING: FAN REPLACEMENT SHOULD ONLY BE PERFORMED BY PERSONNEL SKILLED IN THE DISASSEMBLY AND REPAIR OF VARIABLE FREQUENCY AC DRIVES.**



Note: Installation instructions are included with the fans.

| Replacement Fans for DURApulse (GS3 Series) AC Drives   |          |                               |                             |  |   |
|---|----------|-------------------------------|-----------------------------|--|---|
| Part Number <sup>(1)</sup>  | Price    | Specifications <sup>(2)</sup> | Fans / Drive <sup>(3)</sup> | GS3 Drive Model <sup>(4)</sup>                           | Drive V / HP  |
| <b><u>GS-FAN-1</u></b>  | \$0907:  | 50 mm, 12 VDC, 0.25A          | 1                           | GS3-43P0   | 460 / 3   |
| <b><u>GS-FAN-2</u></b>  | \$0908:  | 60 mm, 12 VDC, 0.25A          | 1                           | GS3-23P0   | 230 / 3   |
| <b><u>GS-FAN-3</u></b>  | Retired  | 80 mm, 12 VDC, 0.42A          | 2                           | GS3-4010   | 460 / 10  |
| <b><u>GS-FAN-4</u></b>  | Retired  | 92 mm, 24 VDC, 0.30A          | 2                           | GS3-2020<br>GS3-2030<br>GS3-4020                         | 230 / 20<br>230 / 30<br>460 / 20                          |
| <b><u>GS-FAN-5</u></b>  | \$0090b: | 120 mm, 24 VDC, 1.2A          | 2                           | GS3-2040<br>GS3-2050<br>GS3-4040<br>GS3-4060<br>GS3-4100 | 230 / 40<br>230 / 50<br>460 / 40<br>460 / 60<br>460 / 100 |
| <p>1) One fan per part number. Includes connectorized electrical cable and installation instructions.</p> <p>2) Fans are replacements for the internal fans in GS3 drives, are dimensionally and electrically equivalent to the originals, and are not intended for other use. Fan electrical loading is included in the input amperage ratings of the drives, and DC voltage is internally provided by the drives.</p> <p>3) Some drives require multiple fans.</p> <p>4) Can be used only with applicable DURAPULSE AC drive.</p> |          |                               |                             |  |   |



# Wiring Solutions

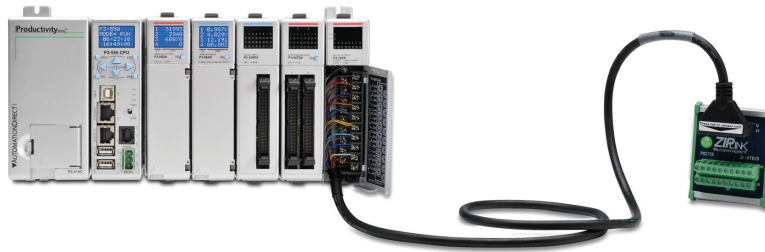
## Wiring Solutions using the ZIPLink Wiring System

**ZIPLinks** eliminate the normally tedious process of wiring between devices by utilizing prewired cables and DIN rail mount connector modules. It's as simple as plugging in a cable connector at either end or terminating wires at only one end. Prewired cables keep installation clean and efficient, using half the space at a fraction of the cost of standard terminal blocks. There are several wiring solutions available when using the **ZIPLink** System ranging from PLC I/O-to-**ZIPLink** Connector Modules that are ready for field

termination, options for connecting to third party devices, GS, DuraPulse and SureServo Drives, and specialty relay, transorb and communications modules. Pre-printed I/O-specific adhesive label strips for quick marking of **ZIPLink** modules are provided with **ZIPLink** cables. See the following solutions to help determine the best **ZIPLink** system for your application.

### **Solution 1: DirectLOGIC, CLICK and Productivity I/O Modules to ZIPLink Connector Modules**

When looking for quick and easy I/O-to-field termination, a **ZIPLink** connector module used in conjunction with a prewired **ZIPLink** cable, consisting of an I/O terminal block at one end and a multi-pin connector at the other end, is the best solution.



Using the PLC I/O Modules to **ZIPLink** Connector Modules selector tables located in this section,

- 1. Locate your I/O module/PLC.
- 2. Select a **ZIPLink** Module.
- 3. Select a corresponding **ZIPLink** Cable.

### **Solution 2: DirectLOGIC, CLICK and Productivity I/O Modules to 3rd Party Devices**

When wanting to connect I/O to another device within close proximity of the I/O modules, no extra terminal blocks are necessary when using the **ZIPLink** Pigtail Cables. **ZIPLink** Pigtail Cables are prewired to an I/O terminal block with color-coded pigtail with soldered-tip wires on the other end.



Using the I/O Modules to 3rd Party Devices selector tables located in this section,

- 1. Locate your PLC I/O module.
- 2. Select a **ZIPLink** Pigtail Cable that is compatible with your 3rd party device.

### **Solution 3: GS Series and DURAPULSE Drives Communication Cables**

Need to communicate via Modbus RTU to a drive or a network of drives?

**ZIPLink** cables are available in a wide range of configurations for connecting to PLCs and *SureServo*, *SureStep*, *Stellar Soft Starter* and AC drives. Add a **ZIPLink** communications module to quickly and easily set up a multi-device network.

Using the Drives Communication selector tables located in this section,

- 1. Locate your Drive and type of communications.
- 2. Select a **ZIPLink** cable and other associated hardware.





# Wiring Solutions

## **Solution 4: Serial Communications Cables**

ZIPLink offers communications cables for use with *DirectLOGIC*, *CLICK*, and *Productivity* CPUs, that can also be used with other communications devices. Connections include a 6-pin RJ12 or 9-pin, 15-pin and 25-pin D-sub connectors which can be used in conjunction with the RJ12 or D-Sub Feedthrough modules.

Using the **Serial Communications Cables** selector table located in this section,

- 1. Locate your connector type
- 2. Select a cable.



## **Solution 5: Specialty ZIPLink Modules**

For additional application solutions, ZIPLink modules are available in a variety of configurations including stand-alone relays, 24VDC and 120VAC transorb modules, D-sub and RJ12 feedthrough modules, communication port adapter and distribution modules, and SureServo 50-pin I/O interface connection.

Using the **ZIPLink Specialty Modules** selector table located in this section,

- 1. Locate the type of application.
- 2. Select a ZIPLink module.



## **Solution 6: ZIPLink Connector Modules to 3rd Party Devices**

If you need a way to connect your device to terminal blocks without all that wiring time, then our pigtail cables with color-coded soldered-tip wires are a good solution. Used in conjunction with any compatible ZIPLink Connector Modules, a pigtail cable keeps wiring clean and easy and reduces troubleshooting time.

Using the **Universal Connector Modules and Pigtail Cables** table located in this section,

- 1. Select module type.
- 2. Select the number of pins.
- 3. Select cable.





# Motor Controller Communication

| AC Drive / Motor Controller (GS/DuraPulse) ZIPLink Selector   |                 |                    |                    |                   |                           |                     |                              |
|---|-----------------|--------------------|--------------------|-------------------|---------------------------|---------------------|------------------------------|
| AC Drive / Controller   |                 | Communications     |                    |                   | ZIPLink Cable             |                     |                              |
| Controller  | Comm Port Type  | Network/Protocol   | Connects to        | Comm Port Type    | Cable<br>(2 meter length) | Cable<br>Connectors | Other Hard-<br>ware Required |
| GS1   | RJ12            | RS-485 Modbus RTU  | BRX MPUs           | RS-485, 3-Pin     | ZL-RJ12-CBL-2P            | RJ12 to pigtail     | N/A                          |
|   |                 |                    | P1 CPUs            | RS-485            |                           |                     |                              |
|   |                 |                    | P2 CPUs            |                   |                           |                     |                              |
|   |                 |                    | P3 CPUs            |                   |                           |                     |                              |
|   |                 |                    | P2-SCM             | RS-485, 4-Pin     | GS-485HD15-CBL-2          | RJ12 to HD15        |                              |
|   |                 |                    | P3-SCM             |                   |                           |                     |                              |
|   |                 |                    | DL06 PLCs          | Port 2 (HD15)     | GS-EDRV-CBL-2             | RJ12 to RJ12        |                              |
|   |                 |                    | D2-260, D2-262 CPU | RJ12              | GS-485RJ12-CBL-2          |                     |                              |
|   |                 |                    | GS-EDRV100         | RJ12              | GS-ISOCON-CBL-2           | RJ12 to 5-pin plug  |                              |
| ZL-CDM-RJ12Xxx *  | RJ12            |                    |                    |                   |                           |                     |                              |
| FA-ISOCON   | 5-pin connector |                    |                    |                   |                           |                     |                              |
| GS2   | RJ12            | RS-232 Modbus RTU  | BRX MPUs           | RS-232/485, 3-Pin | ZL-RJ12-CBL-2P            | RJ12 to pigtail     | N/A                          |
|   |                 |                    | P1 CPUs            | RS-485            |                           |                     |                              |
|   |                 |                    | P2 CPUs            |                   |                           |                     |                              |
|   |                 |                    | P3 CPUs            |                   |                           |                     |                              |
|   |                 |                    | P2-SCM             | Ports 1, 2 & 3    | GS-RJ12-CBL-2             | RJ12 to RJ12        | FA-15HD                      |
|   |                 |                    | P3-SCM             | Ports 1 to 4      |                           |                     |                              |
|   |                 |                    | CLICK PLCs         | Port 2 (RJ12)     |                           |                     |                              |
|   |                 |                    | DL05 PLCs          | Port 2 (HD15)     |                           |                     | FA-CABKIT                    |
|   |                 |                    | DL06 PLCs          |                   |                           |                     |                              |
|   |                 |                    | D2-250-1 CPU       |                   |                           |                     |                              |
|   |                 | D2-260, D2-262 CPU | Port 3 (25-pin)    |                   |                           |                     |                              |
|   |                 | D4-450, D4-454 CPU |                    |                   |                           |                     |                              |
|   |                 | RS-485 Modbus RTU  | BRX MPUs           | RS-232/485, 3-Pin | ZL-RJ12-CBL-2P            | RJ12 to pigtail     | N/A                          |
|   |                 |                    | P1 CPUs            | RS-485            |                           |                     |                              |
|   |                 |                    | P2 CPUs            |                   |                           |                     |                              |
|   |                 |                    | P3 CPUs            |                   |                           |                     |                              |
|   |                 |                    | P2-SCM             | RS-485, 4-Pin     | GS-485HD15-CBL-2          | RJ12 to HD15        |                              |
|   |                 |                    | P3-SCM             |                   |                           |                     |                              |
|   |                 |                    | DL06 PLCs          | Port 2 (HD15)     | GS-EDRV-CBL-2             | RJ12 to RJ12        |                              |
|   |                 |                    | D2-260, D2-262 CPU | RJ12              | GS-ISOCON-CBL-2           |                     |                              |
| GS-EDRV100  | RJ12            |                    |                    |                   |                           |                     |                              |
| ZL-CDM-RJ12Xxx *  | RJ12            |                    |                    |                   |                           |                     |                              |
| FA-ISOCON   | 5-pin connector |                    |                    |                   |                           |                     |                              |
| DuraPulse<br>(GS3)  | RJ12            | RS-485 Modbus RTU  | BRX MPUs           | RS-485, 3-Pin     | ZL-RJ12-CBL-2P            | RJ12 to pigtail     | N/A                          |
|   |                 |                    | P1 CPUs            | RS-485            |                           |                     |                              |
|   |                 |                    | P2 CPUs            |                   |                           |                     |                              |
|   |                 |                    | P3 CPUs            |                   |                           |                     |                              |
|   |                 |                    | P2-SCM             | RS-485, 4-Pin     | GS-485HD15-CBL-2          | RJ12 to HD15        |                              |
|   |                 |                    | P3-SCM             |                   |                           |                     |                              |
|   |                 |                    | DL06 PLCs          | Port 2 (HD15)     | GS-EDRV-CBL-2             | RJ12 to RJ12        |                              |
|   |                 |                    | D2-260, D2-262 CPU | RJ12              | GS-ISOCON-CBL-2           |                     |                              |
|   |                 |                    | GS-EDRV100         | RJ12              |                           |                     |                              |
|   |                 |                    | ZL-CDM-RJ12Xxx *   | RJ12              |                           |                     |                              |
| FA-ISOCON   | 5-pin Connector |                    |                    |                   |                           |                     |                              |
| * When using the ZL-CDM-RJ12Xxx ZIPLink Communication Distribution Module, replace the lowercase xx with the number of RJ12 ports, i.e. 4 for four ports or 10 for ten ports. (ex: ZL-CDM-RJ12X4 or ZL-CDM-RJ12X10) |                 |                    |                    |                   |                           |                     |                              |

\* When using the ZL-CDM-RJ12Xxx ZIPLink Communication Distribution Module, replace the lowercase xx with the number of RJ12 ports, i.e. 4 for four ports or 10 for ten ports. (ex: ZL-CDM-RJ12X4 or ZL-CDM-RJ12X10)