I/O Modules

H4-CTRIO high-speed counter module

Select the H4-CTRIO if your application requires:

- More than one quadrature encoder
- More than one single up counter
- Pulse outputs
- Output operations on the module based on counts, without interaction with the CPU scan

The CTRIO is configured using a Windows-based "Wizard" utility, eliminating the need for ladder logic programming to configure the module. Multiple CTRIO modules can be used in a base to support additional input/output pulse trains.

Analog module selection tips

If you're going to control the speed of an AC inverter or drive with a DL405 analog module, make sure you select the current sourcing F4-04DAS-1 isolated analog output module. Complete module specifications are listed later in this section.

*ZIP*Link connection systems

*ZIP*Links consist of PLC interface cables and connector modules that offer "plug and play" capability by plugging one end of the *ZIP*Link cable into an I/O module and the other end into the *ZIP*Link connector module. This eliminates the tedious process of wiring PLC I/O to terminal blocks. For more information, refer to Wiring System for DL405 PLCs later in this chapter or the Wiring Solutions section in this catalog.

DIN*nectors* terminal blocks

DIN*nectors* are DIN rail mounted connectors or terminal blocks. All DIN*nectors* are UL, CSA, VDE, SEV, RINA and IEC approved. Refer to the Terminal Blocks section of this catalog for details.

Need spare parts?

Sometimes it is helpful to have extra I/O module connectors or spare fuses. The DL405 spare parts and accessories are listed below:

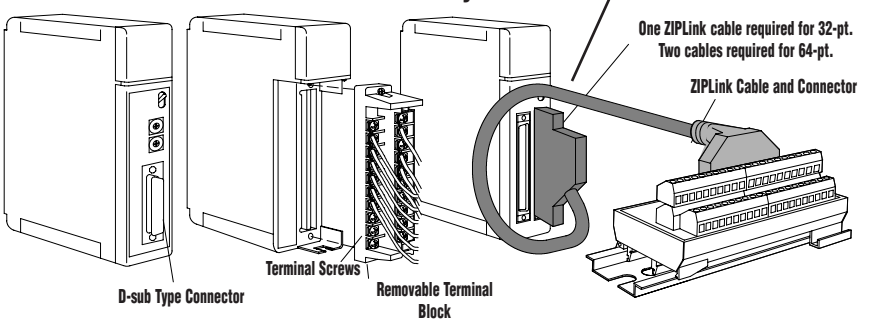
D4-FUSE-2 ()	Fuses for F4-08TRS-2
D4-FILL ()	Filler module to cover empty I/O slots
(retired)	16-pt. module terminal blocks
D4-IOCVR ()	Replacement terminal block covers
ZL-D24-CON-R ()	32/64-pt. ribbon-style connectors
ZL-D24-CON-X ()	32/64-pt. solder-style connectors

Next steps?

Now that you understand the factors affecting your choice of I/O modules, it's time to choose the ones that best fulfill your needs. Review the module specifications later in this section. If you have any questions, give us a call. When you have selected the modules you need, proceed to the next section to choose an I/O configuration scheme that best suits your application.

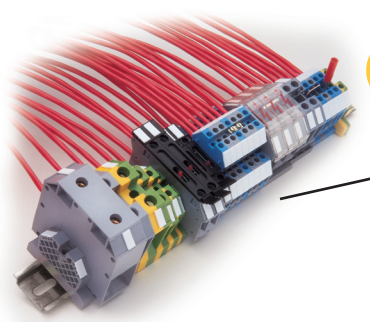
*ZIP*Links eliminate the tedious process of wiring the PLC I/O to terminal blocks. See the Wiring Solutions section for details.

ZIPLink connection system



This logo is placed by each I/O module that supports *ZIP*Link connection systems. (The I/O modules are listed at the end of this section). See the Wiring Solutions section of this catalog for complete information on *ZIP*Links.

DIN*nectors* terminal blocks



DIN*nectors* provide a means of connecting and identifying two or more wires within the demands of an industrial environment. See the Terminal Blocks section for details.