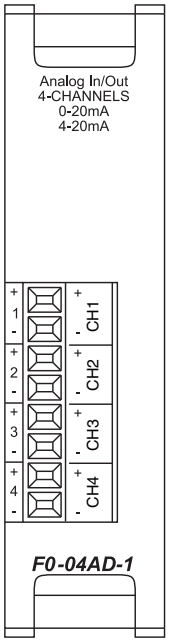
F0-04AD-1 <--->

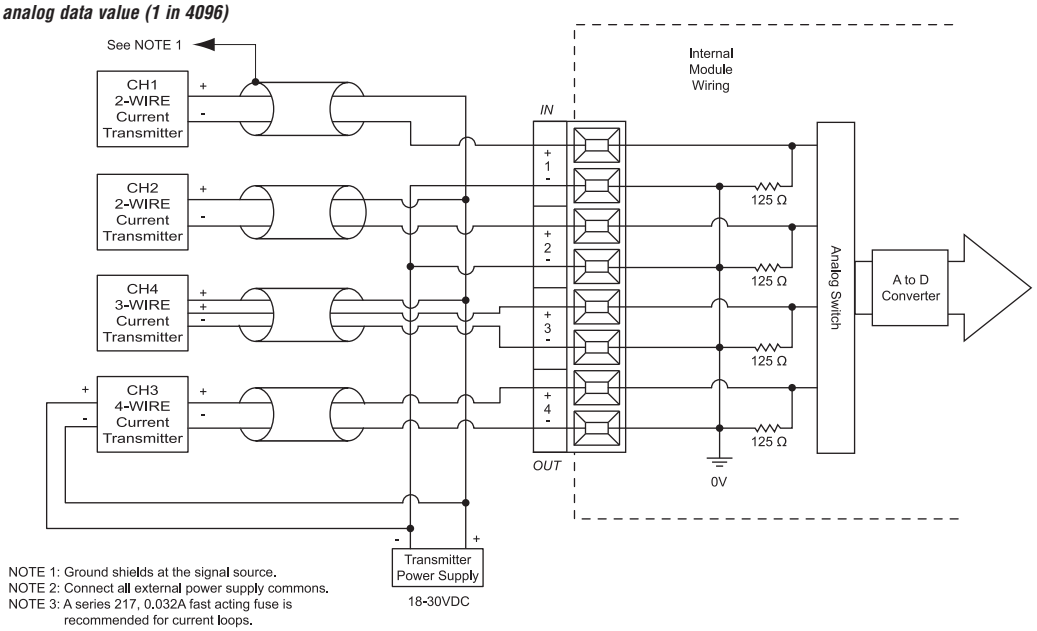
4-channel analog current input module

F0-04AD-1 Input Specifications	
Number of Channels	4, single ended (one common)
Input Range	0 to20mA or 4 to 20mA (jumper selectable)
Resolution	12 bit (1 in 4096)
Step Response	25.0mS (typ.) to 95% of full step change
Crosstalk	1/2 count max (-80db)*
Active Low-pass Filtering	-3dB at 40Hz (-12dB per octave)
Input Impedance	125Ω ±0.1%, 1/8 watt
Absolute Max Ratings	-30mA to +30mA, current input
Converter Type	Successive approximation
Linearity Error (end to end)	±2 counts
Input Stability	±1 count*
Full-scale Calibration Error	±10 counts max. @ 20mA*
Offset Calibration Error	±5 counts max. @ 4mA*
Max Inaccuracy	±0.4% at 25°C (77°F) ±0.85% at 0 to 60°C (32 to 140°F)
Accuracy vs. Temperature	±100 ppm/°C typical
Terminal Type (Included)	Removable: F0-IOCON
Recommended Fuse	0.032A, series 217 fast-acting, current inputs

**** One count in the specification table is equal to one least significant bit of the analog data value (1 in 4096)***



See page 2-68 for part numbers of *ZIP*Link cables and connection modules compatible with this I/O module.



NOTE 1: Ground shields at the signal source.
NOTE 2: Connect all external power supply commons.
NOTE 3: A series 217, 0.032A fast acting fuse is recommended for current loops.

Wiring System for DL05/06 PLCs

Cut PLC wiring time to minutes instead of hours

The *ZIP*Link wiring system eliminates the normally tedious process of wiring PLC I/O to terminal blocks. Simply plug one end of a *ZIP*Link pre-wired terminal block cable into your I/O module and the other end into a ZIPLink connector module. It's that easy. *ZIP*Links use half the space, at a fraction of the total cost of terminal blocks.

*ZIP*Links are available in a variety of styles to suit your needs, including fused, relay and sensor/LED connector modules. *ZIP*Links are available for all DL05/06 Series PLC discrete and analog input and output modules.

For complete information see *ZIP*Links in the Terminal Blocks and Wiring Solutions section.

Specify your *ZIP*Link system

Use the Compatibility Matrix table below:

Step 1	Locate the I/O Module part number.
Step 2	Locate Connector Module Type. (Feedthrough Module, Fuse Module, etc...)
Step 3	Select the cable length by replacing the # symbol with: Blank = 0.5m, -1 = 1m, -2 = 2m[1]

[1] ***Note: Cable part number denotes compatibility between Connector Module and I/O Modules.***

ZIPLink Wiring System Compatibility Matrix for DL05/06 PLCs

Step 2: Connector Module Type		***Feedthrough Modules***	***Fuse Modules***	***Relay Modules***	***Sensor Input Modules***	***Pigtail Cable***
Step 1: I/O Module	***Number of Terminals***	ZL-RTB20	ZL-RFU20	ZL-RRL16-24	ZL-LTB16-24	
		Step 3: Cables				
Inputs						
D0-10ND3	13	ZL-D0-CBL13#				
D0-10ND3F	13	ZL-D0-CBL13#				
D0-16ND3	24	ZL-D0-CBL24#L			ZL-D0-CBL24#L	ZL-D0-CBL24#P
F0-08NA-1	10	ZL-D0-CBL10#				
Outputs						
D0-10TD1	13	ZL-D0-CBL13#				
D0-16TD1	24	ZL-D0-CBL24#	ZL-D0-CBL24#	ZL-D0-CBL24#		ZL-D0-CBL24#P
D0-10TD2	13	ZL-D0-CBL13#				
D0-16TD2	24	ZL-D0-CBL24#	ZL-D0-CBL24#			ZL-D0-CBL24#P
D0-08TR	10	ZL-D0-CBL10#				
F0-04TRS*	13	ZL-D0-CBL13#				
Combo In/Out						
D0-07CDR	10	ZL-D0-CBL10#				
D0-08CDD1	13	ZL-D0-CBL13#				
Analog						
F0-04AD-1	8	ZL-D0-CBL8#				
F0-04AD-2	8	ZL-D0-CBL8#				
F0-08ADH-1	13	ZL-D0-CBL13#				
F0-08ADH-2	13	ZL-D0-CBL13#				
F0-04DAH-1	13	ZL-D0-CBL13#				
F0-08DAH-1	13	ZL-D0-CBL13#				
F0-04DAH-2	13	ZL-D0-CBL13#				
F0-08DAH-2	13	ZL-D0-CBL13#				
F0-2AD2DA-2	8	ZL-D0-CBL8#				
F0-4AD2DA-1	8	ZL-D0-CBL8#				
F0-4AD2DA-2	8	ZL-D0-CBL8#				
F0-04RTD*						
F0-04THM*						

I/O Module

**** Caution: The F0-04TRS relay outputs are derated not to exceed 2 Amps per point when used with the ZIPLink wiring system.***

***** The F2-04RTD and F2-04THM modules are not supported by the ZIPLink wiring system. These modules require wire specific to the signal type.***

ZIPLink Connector Modules specifications begin on page 26-56

ZIPLink Cables specifications begin on page 26-74