

DL05/06 I/O Option Modules

FO-04TRS <--->

4-point relay output module

FO-04TRS Output Specifications	
Number of Outputs	4
Output Voltage Range	5-30VDC/5-125VAC
Output Type	2 - form C (SPDT) 2 - form A (SPST normally open)
Output Points Consumed	8
Peak Voltage	60VDC/220VAC
AC Frequency	47-63Hz
Maximum Current (resist.)	3A/point with no derating*
Minimum Load Current	10mA @ 5V
Maximum Leakage Current	N/A
ON Voltage Drop	N/A
Maximum Inrush Current	5A
Off to On Response	≤ 5mS (typical)
On to Off Response	≤ 5mS (typical)
Status Indicators	None
Commons	4 isolated
Fuses	4, IEC 3.15A, replaceable, D2-FUSE-1
Terminal Type (Included)	Removable: D0-ACC-4
Base Power Required (5V)	250mA Max. (all points ON)

* Using the ZIPLink wiring system will derate this module to 2 Amps per point.

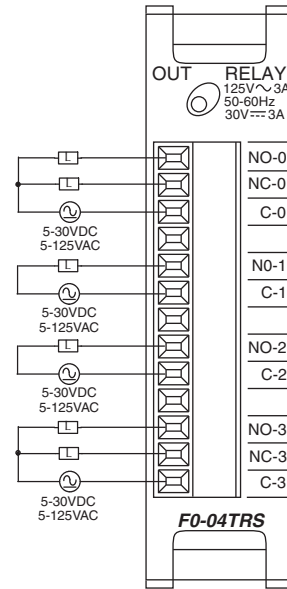
FO-04TRS Typical Relay Life at 30 Operations per Minute			
Load Type	Rated Voltage	Rated Current	Number of Operations
Resistive	120VAC	3A	120,000
Resistive	120VAC	1A	550,000
Resistive	24VDC	1A	>2M
Inductive: SC-E5 Motor Starter	24VDC	0.2A	>2M (see Note)
Inductive: SC-E5 Motor Starter	120VAC	0.1A operating 1.7A fault	>2M (see Note)

Note: Transient suppression must be installed with inductive loads.

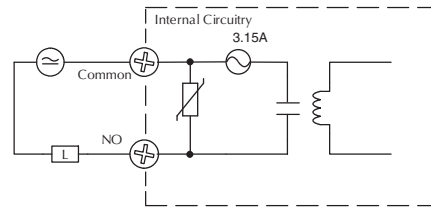
CPU	Firmware Required	DirectSOFT Required
DL05	Version 4.70 or later	Version 3.0c or later
DL06	Version 1.50 or later	Version 4.0, Build 16 or later



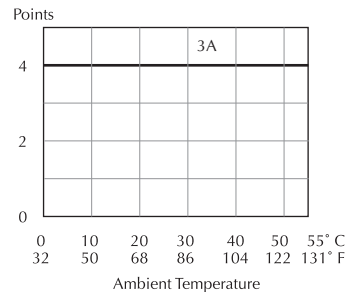
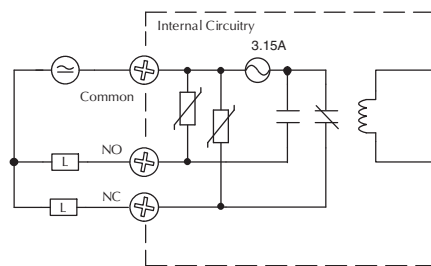
See page 2-68 for part numbers of ZIPLink cables and connection modules compatible with this I/O module.



Typical Circuit



Typical Circuit



Cut PLC wiring time to minutes instead of hours

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

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

For complete information see ZIPLinks in the Terminal Blocks and Wiring Solutions section.



Specify your ZIPLink 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	Step 3: Cables				
Inputs						
DO-10ND3	13	ZL-D0-CBL13#				
DO-10ND3F	13	ZL-D0-CBL13#				
DO-16ND3	24	ZL-D0-CBL24#L			ZL-D0-CBL24#L	ZL-D0-CBL24#P
FO-08NA-1	10	ZL-D0-CBL10#				
Outputs						
DO-10TD1	13	ZL-D0-CBL13#				
DO-16TD1	24	ZL-D0-CBL24#	ZL-D0-CBL24#	ZL-D0-CBL24#		ZL-D0-CBL24#P
DO-10TD2	13	ZL-D0-CBL13#				
DO-16TD2	24	ZL-D0-CBL24#	ZL-D0-CBL24#			ZL-D0-CBL24#P
DO-08TR	10	ZL-D0-CBL10#				
FO-04TRS*	13	ZL-D0-CBL13#				
Combo In/Out						
DO-07CDR	10	ZL-D0-CBL10#				
DO-08CDD1	13	ZL-D0-CBL13#				
Analog						
FO-04AD-1	8	ZL-D0-CBL8#				
FO-04AD-2	8	ZL-D0-CBL8#				
FO-08ADH-1	13	ZL-D0-CBL13#				
FO-08ADH-2	13	ZL-D0-CBL13#				
FO-04DAH-1	13	ZL-D0-CBL13#				
FO-08DAH-1	13	ZL-D0-CBL13#				
FO-04DAH-2	13	ZL-D0-CBL13#				
FO-08DAH-2	13	ZL-D0-CBL13#				
FO-2AD2DA-2	8	ZL-D0-CBL8#				
FO-4AD2DA-1	8	ZL-D0-CBL8#				
FO-4AD2DA-2	8	ZL-D0-CBL8#				
FO-04RTD**						
FO-04THM**						

* Caution: The FO-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