

# DC-Powered Relay Modules

Our DC-powered relay modules provide isolation, switch high current (10A) loads, are offered in 8 or 16 points, and include diode protection to prevent voltage spikes at the relay coil from damaging connected PLC I/O modules.

Modules mount on 35 mm DIN rail part #DN-R35S1 (see Accessories below).

**Note: Relays included.**



**ZL-CM08RL24**

**ZL-CM16RL24A**

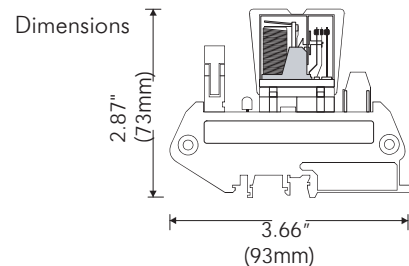
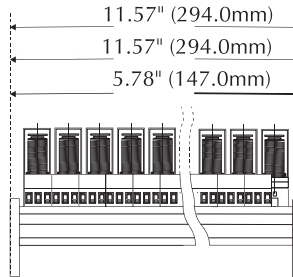
**ZL-CM16RL24B**

Specifications									
DC Relay Modules	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg
		ZL-CM08RL24	1	<--->	ZL-CM16RL24A	1	<--->	ZL-CM16RL24B	1
<b>Description</b>	8-channel relay module w/LEDs			16-channel relay module w/LEDs, 20 pin IDC			16-channel relay module w/LEDs, 24 pin IDC		
<b>Approvals</b>	UL/CUL/CE			UL/CUL/CE			UL/CUL/CE		
<b>Operating Range, Coil</b>	19.4-26.4 VDC			19.4-26.4 VDC			19.4-26.4 VDC		
<b>Input Current per Channel</b>	25mA ±5%			25mA ±5%			25mA ±5%		
<b>Coil Supply Voltage</b>	24VDC±5%			24VDC±5%			24VDC±5%		
<b>Coil Supply Current Max</b>	200mA (total 8 modules)			400mA (total 16 modules)			400mA (total 16 modules)		
<b>Pickup Current</b>	16.7mA			16.7mA			16.7mA		
<b>OFF to ON/ON to OFF Response</b>	15ms/5ms			15ms/5ms			15ms/5ms		
<b>Switching Speed</b>	60Hz			60Hz			60Hz		
<b>Terminal Block Contact</b>	Copper alloy, tin-lead plating								
<b>Contact Type</b>	1 Form C (SPDT)			1 Form C (SPDT)			1 Form C (SPDT)		
<b>Contact Voltage (per point)</b>	250VAC/30VDC			250VAC/30VDC			250VAC/30VDC		
<b>Contact Current (per point)</b>	10A			10A			10A		
<b>Life Mechanical Contact</b>	2x10 <sup>6</sup>			2x10 <sup>6</sup>			2x10 <sup>6</sup>		
<b>Maximum Switching Voltage</b>	400VAC 125VDC			400VAC 125VDC			400VAC 125VDC		
<b>Maximum Current for Relay</b>	10A			10A			10A		
<b>Maximum Power, Inductive</b>	AC 1500VA, DC 150W			AC 1500VA, DC 150W			AC 1500VA, DC 150W		
<b>Maximum Power, Resistive</b>	AC 2500VA, DC 300W			AC 2500VA, DC 300W			AC 2500VA, DC 300W		
<b>Minimum Load</b>	100mA 5VDC			100mA 5VDC			100mA 5VDC		
<b>Channel to Channel/Contact Isolation</b>	1000VAC (up to 1 min.)			1000VAC (up to 1 min.)			1000VAC (up to 1 min.)		
<b>Coil/Contact Isolation</b>	2500VAC (up to 1min.)			2500VAC (up to 1min.)			2500VAC (up to 1min.)		
<b>Operating Temperature</b>	-10°C to +45°C			-10°C to +45°C			-10°C to +45°C		
<b>Dimensions (L x W x H)</b>	5.78"x3.66"x 2.87"			11.574 x3.66"x 2.87"			11.57"x3.66"x2.87"		

Accessories									
	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg	Part #	Pcs/Pkg	Price/Pkg
<b>DIN Rail</b>	DN-R35S1	10	<--->	DN-R35S1	10	<--->	DN-R35S1	10	<--->
<b>Angled Support Bracket</b>	DN-ASB1	50	<--->	DN-ASB1	50	<--->	DN-ASB1	50	<--->
<b>End Bracket</b>	DN-EB35	50	<--->	DN-EB35	50	<--->	DN-EB35	50	<--->
<b>Slotted Screwdriver</b>	DN-SS1	1	<--->	DN-SS1	1	<--->	DN-SS1	1	<--->
<b>DC Relays (24VDC)</b>	ZL-RELAY-24	10	<--->	ZL-RELAY-24	10	<--->	ZL-RELAY-24	10	<--->
<b>Relay Kit</b>	ZL-RELAY-KIT	10	<--->	ZL-RELAY-KIT	10	<--->	ZL-RELAY-KIT	10	<--->

ZL-CM16RL24A  
ZL-CM16RL24B  
ZL-CM08RL24



**Note: See wiring details on our Web site at:**  
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>

# Connection Cables

ZIPLink Connection Cables				
Part Number	Description	Insulation Rating	Conductor Size	Price
<b>Standard DL205 8 Channel</b>				
ZL-2CBL1	DL205-8 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-2CBL1-1	DL205-8 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-2CBL1-2	DL205-8 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL205 16 Channel</b>				
ZL-2CBL2	DL205-16 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-2CBL2-1	DL205-16 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-2CBL2-2	DL205-16 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>LED/Sensor DL205 16 Channel</b>				
ZL-2CBL2L	DL205-16, ZIPLink LED/sensor module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-2CBL2L-1	DL205-16, ZIPLink LED/sensor module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-2CBL2L-2	DL205-16, ZIPLink LED/sensor module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL305 16 Channel</b>				
ZL-3CBL2	DL305-16 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2-1	DL305-16 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2-2	DL305-16 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>LED/Sensor DL305 16 Channel</b>				
ZL-3CBL2L	DL305-16, ZIPLink LED/sensor module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2L-1	DL305-16, ZIPLink LED/sensor module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2L-2	DL305-16, ZIPLink LED/sensor module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Fuse/Relay DL305 8 Channel</b>				
ZL-3CBL1FR8	DL305-8, ZIPLink fuse/relay module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL1FR8-1	DL305-8, ZIPLink fuse/relay module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL1FR8-2	DL305-8, ZIPLink fuse/relay module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Fuse/Relay DL305 16 Channel</b>				
ZL-3CBL2FR16	DL305-16, ZIPLink fuse/relay module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2FR16-1	DL305-16, ZIPLink fuse/relay module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL2FR16-2	DL305-16, ZIPLink fuse/relay module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL305 16 Channel</b>				
ZL-3CBL3	DL305-16 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3-1	DL305-16 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3-2	DL305-16 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Fuse/Relay DL305 16 Channel</b>				
ZL-3CBL3FRD16	DL305-16, ZIPLink fuse/relay module cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3FRD16-1	DL305-16, ZIPLink fuse/relay module cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3FRD16-2	DL305-16, ZIPLink fuse/relay module cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL405 16 Channel</b>				
ZL-4CBL2	DL405-16 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-4CBL2-1	DL405-16 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-4CBL2-2	DL405-16 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->
<b>Standard DL205 or DL405 32 Channel</b>				
ZL-4CBL4	DL205 or DL405-32 ZIPLink cable, 1.6 ft. (0.5M)	300V 80°C	#24 AWG	<--->
ZL-4CBL4-1	DL205 or DL405-32 ZIPLink cable, 3.3 ft. (1.0M)	300V 80°C	#24 AWG	<--->
ZL-4CBL4-2	DL205 or DL405-32 ZIPLink cable, 6.5 ft. (2.0M)	300V 80°C	#24 AWG	<--->

ZL-2CBL1xx



ZL-2CBL2xx



ZL-3CBL2xx



ZL-3CBL3xx



ZL-4CBL2xx



ZL-4CBL4xx



PLC Overview

DL05/06 PLC

DL105 PLC

DL205 PLC

DL305 PLC

DL405 PLC

Field I/O

Software

C-more HMIs

Other HMI

AC Drives

Motors

Steppers/Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pushbuttons/Lights

Process

Relays/Timers

Comm.

TB's & Wiring

Power

Circuit Protection

Enclosures

Appendix

Part Index

# Connection Cables (cont.)

ZiPLink Connection Cables				
Part Number	Description	Insulation Rating	Conductor Size	Price
<b>Communication Adapter</b>				
ZL-DN15TB-CBL	15 pin shielded cable for DN-15TB module 6.5 ft (2M)	300V 80°C	#28 AWG	<--->
ZL-DN25TB-CBL	25 pin shielded cable for DN-25TB module 6.5 ft (2M)	300V 80°C	#28 AWG	<--->
<b>Ready to Wire w/Pigtail End</b>				
ZL-2CBL2-2P	DL-205-16 Ready-to-wire 20 conductor cable, 2A max/conductor 6.5 ft (2M)	300V 80°C	#24 AWG	<--->
ZL-3CBL3-2P	DL-305-16 Ready-to-wire 24 conductor cable, 2A max/conductor 6.5 ft (2M)	300V 80°C	#24 AWG	<--->
<b>Standard DL05/06</b>				
ZL-CBL056	Ziplink cable for DL05 and 06 16 point I/O modules to Ziplink feedthrough modules (0.5M)	300V 80°C	#24 AWG	<--->
ZL-CBL056L	Ziplink cable for DL05 and 06 16 point I/O LED modules (0.5M)	300V 80°C	#24 AWG	<--->
ZL-CBL056FR	Ziplink cable for DL05 and 06 16 point I/O fuse/relay modules (0.5M)	300V 80°C	#24 AWG	<--->
<b>Standard</b>				
ZL-DB9-CBL	Cable with 9-pin Dsub connectors on both ends, black. male/female, (2M)	300V 80°C	#28 AWG	<--->
ZL-DB15-CBL	Cable with 15-pin Dsub connectors on both ends, black. male/female, (2M)	300V 80°C	#28 AWG	<--->
ZL-DB25-CBL	Cable with 25-pin Dsub connectors on both ends, black. male/female, (2M)	300V 80°C	#28AWG	<--->
ZL-RJ12-CBL	Reverse-wired cable with two RJ12 connectors, black. (2M)	300V 80°C	#28 AWG	<--->

Note: Use ZL-DN15TB-CBL cable only for Communication Module DN-15TB; Super VGA cables will not function correctly.

ZL-2CBL2-2P\*



\* Can be used with any brand PLC.

ZL-CBL056L



ZL-DN15TB-CBL



ZL-DN25TB-CBL

