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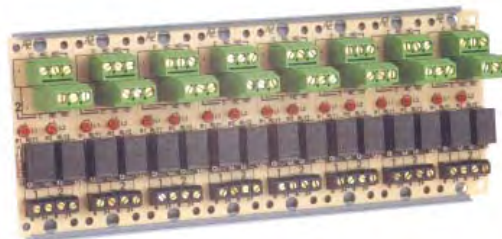
# MR-820 SERIES DUAL RELAYS

## PRODUCT DESCRIPTION

The MR-820 Series Relays provide SPDT contacts which are operated from a 24VDC control input. The input voltages are polarity sensitive and diode protected. Each relay position contains dual independent relays and dual independent red LED's which indicate when the associated relay coil is energized.

Relays may be "snapped apart" from a standard 8 module assembly and used independently. Relays are available with snap track and mounting hardware or swage type spacers. A single MR-821, MR-822, MR-824 or MR-828 is also available mounted in a sturdy NEMA I enclosure.

These devices are ideal for applications where high density relay switching is required. They are suitable for use with HVAC, Temperature Control, Fire Alarm, Security, Energy Management and Lighting Control Systems.

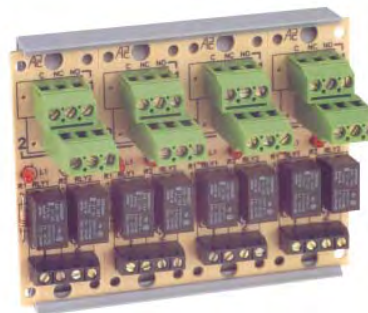


MR-828/T



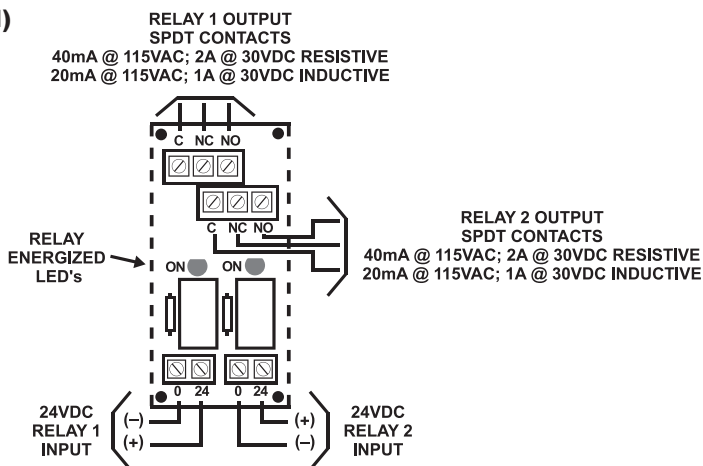
MR-821/T

 RECOGNIZED COMPONENTS



MR-824/T

## WIRING (TYPICAL FOR ONE MODULE POSITION)



Air Products and Controls Inc.  
1749 E. Highwood  
Pontiac, MI 48340  
(248) 332-3900 Phone  
(888) 332-2241 Toll free  
(248) 332-8807 Fax  
www.ap-c.com

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## PRODUCT SPECIFICATIONS

MODEL NUMBER	MODULE POSITIONS	CONTACT CONFIGURATION PER POSITION	SPACER MOUNTED H x W x D	TRACK MOUNTED H x W x D	ENCLOSURE MOUNTED H x W x D	COVER MATERIAL	
MR-821/S	1	SPDT	3.25" (83mm) 1.06" (27mm) 1.76" (45mm)				
MR-821/T				3.45" (88mm) 2.00" (51mm) 1.83" (46mm)			
MR-821/C						5.13" (130mm) 3.13" (79mm)	Grey ABS 94V-O Plastic
MR-821/C/R						2.50" (64mm)	Red ABS 94V-O Plastic
MR-822/S	2	SPDT	3.25" (83mm) 2.12" (54mm) 1.76" (45mm)				
MR-822/T				3.45" (88mm) 2.13" (54mm) 1.83" (46mm)			
MR-822/C						5.13" (130mm) 3.13" (79mm)	Grey ABS 94V-O Plastic
MR-822/C						2.50" (64mm)	Red ABS 94V-O Plastic
MR-824/S	4	SPDT	3.25" (83mm) 4.25" (108mm) 1.76" (45mm)				
MR-824/T				3.45" (88mm) 4.25" (108mm) 1.83" (46mm)			
MR-824/C						5.13" (130mm) 9.50" (241mm)	Plated 18ga CRS
MR-824/C/R						2.50" (64mm)	Red 18ga CRS
MR-828/S	8	SPDT	3.25" (83mm) 8.50" (215mm) 1.76" (45mm)				
MR-828/T				3.45" (88mm) 8.50" (215mm) 1.83" (46mm)			
MR-828/C						5.13" (130mm) 9.50" (241mm)	Plated 18ga CRS
MR-828/C/R						2.50" (64mm)	Red 18ga CRS
<b>POWER REQUIREMENTS:</b>		Per position: 24VDC @ 17mA					
<b>COIL DATA:</b>		24VDC nominal; Pick-up = 19.2VDC; Drop-out = 3.6VDC; Max. = 26.4VDC					
<b>COMPONENTS:</b>		Utilizes UL Recognized Components					
<b>POLARIZED:</b>		Yes					
<b>ENERGIZED LED INDICATOR:</b>		One per module position					
<b>CONTACT RATINGS:</b>		Resistive load: 40mA @ 115VAC / 2A @ 30VDC Inductive load: 20mA @ 115VAC / 1A @ 30VDC					
<b>ENVIRONMENTAL:</b>		32°F to 120°F (0°C to 49°C) @ 85% RH, Non-condensing, Non-freezing					
<b>WIRING:</b>		Solid or stranded; #14 to #22 AWG terminals					
<b>/S VERSIONS:</b>		Aluminum spacers provided with #8 X 7/8" screws					
<b>/T VERSIONS:</b>		3.5" wide, low profile plastic snap track provided with mounting screws					
<b>/C VERSIONS:</b>		Backbox: 18ga CRS, plated with 1/2" conduit knockouts top and bottom					

**NOTICE:** The information contained in this document is intended only as a summary and is subject to change without notice. The products described have specific instructional/installation documentation, which covers various technical, approval, code, limitation and liability information. Copies of this documentation along with any general product warning and limitation documents, which also contain important information, are provided with the product and are also available from Air Products and Controls Inc. The information contained in all of these documents should be considered before specifying or using the products. Any example applications shown are subject to the most current enforced local/national codes, standards, approvals, certifications, and/or the authority having jurisdiction. All of these resources, as well as the specific manufacturer of any shown or mentioned related equipment, should be consulted prior to any implementation. For further information or assistance concerning the products, contact Air Products and Controls Inc. Air Products and Controls Inc. reserves the right to change any and all documentation without notice.