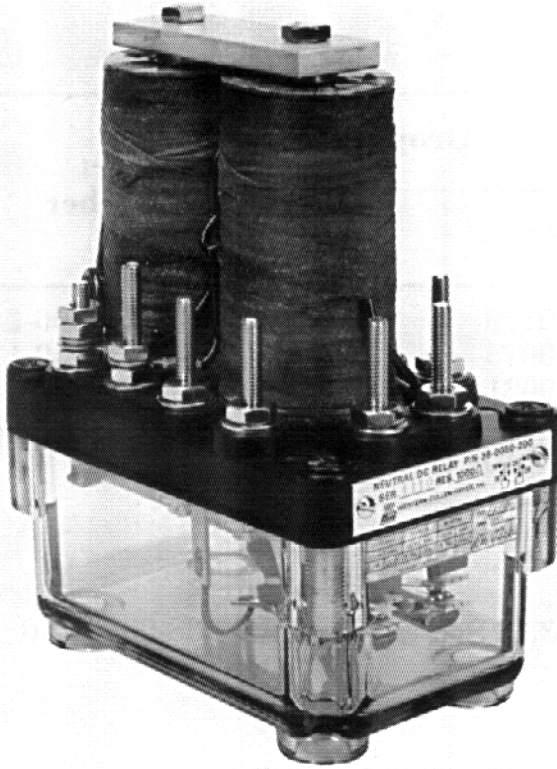


**Series 50
Shelf-Type Relays
For
Railroad Signal
Applications**



Western-Cullen-Hayes makes vital shelf relays for many railroad signal applications. Calibration and test procedures conducted at the factory help to insure proper operation over a wide range of environmental conditions. Individual relays are detailed on the following page.

Contacts

These relays are equipped with two sets of "Form C" contacts. All are heavy-duty (30 VDC, 15 Ampere, retained) with silver to silver-impregnated-carbon fronts and silver to silver backs. Standard minimum opening is 0.05 inches. Wiping action of the contacts causes them to be self-cleaning.

Mountings

Spring shock absorber bases are provided with all relays. A bracket for wall-mounting is available as an optional item.



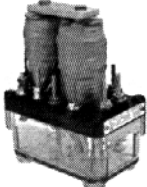
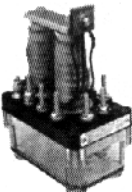
Housing

The cover is transparent, cast, poly-carbonate plastic. Frame and cover are sealed to one another by a pressure gasket. Binding posts are retained in cast-in grooves to prevent turning. All binding post and coil core ports are sealed to guard against the ingress of moisture and other contaminants. An identification plate is mounted to the cover of each relay and includes a contact diagram which will aid installation and testing of the relay.

Over-All Size

Maximum over-all size of the Series 50 Relays, including spring base, coils and appertances is 8-1/2" H x 4-1/4" W x 6-1/2" D.

Series 50 Relays

Neutral DC Line Relays 	Coil Resistance Ohms	Energi- zation Voltage	Full Drop-Away		Part Number
			Amps	Volts	
	160	5.32	.0179	2.89	38-0050-300-1
	280	4.99	.0078	2.17	38-0050-400-1
	1000	5.96	.0021	2.14	38-0050-200-1
Neutral Slow Dropaway Relays 	134	4.8	Min. D.A. Time		38-0050-450
			3.15 Sec. @ 12VDC		
Neutral DC Track Relays 	4.0	.32	.034	.136	38-0050-600-1
Power Transfer Relays 	140/140	9.0 (Volts RMS)		7.0 (Volts RMS)	38-0050-425-1
		AC input not to exceed 26 volts			
Wall Mount Bracket	For mounting any of above relays to wall.				38-0052-10

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