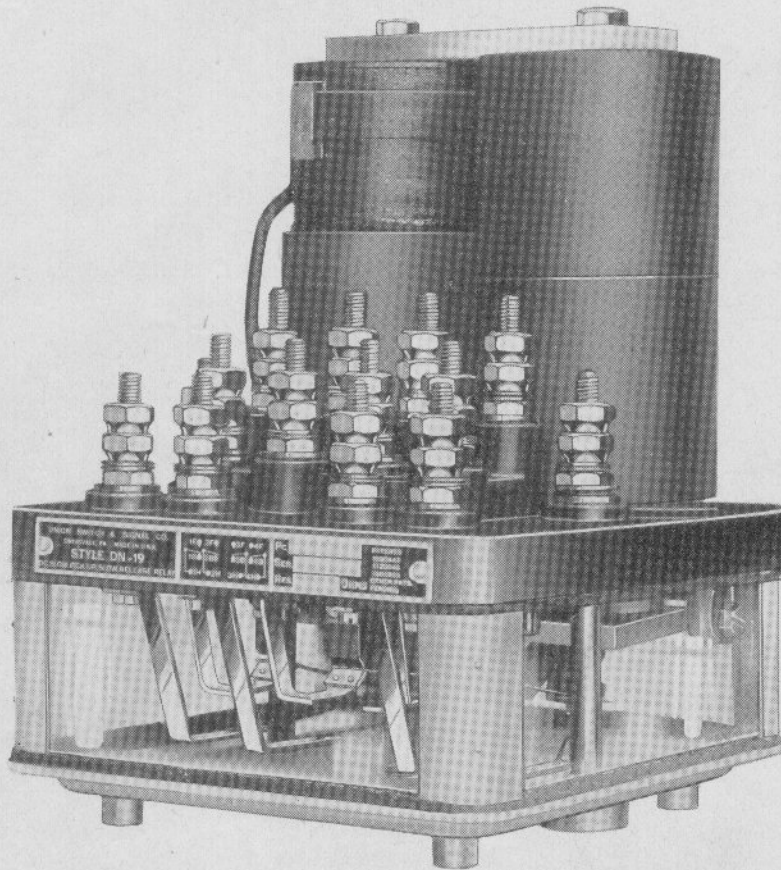


UNION SWITCH & SIGNAL CO.



REF. A—FOUR POINT RELAY—WIDTH $6\frac{1}{4}$ " , DEPTH $6\frac{1}{4}$ " , HEIGHT 9"

REF. B—SIX POINT RELAY—WIDTH $7\frac{5}{8}$ " , DEPTH $6\frac{1}{4}$ " , HEIGHT 9"

STYLE "DN-19" FOUR AND SIX POINT RELAYS

The Style "DN-19" Special Slow Release Relay has the same basic structure as the Style "DN-18" Relay, but eliminates the adjustable magnetic shunt and employs additional copper for retardation in the place thereof. The 225 ohm relay at 8 volts has a pick-up period of 1.4 seconds and a release time of 2.75 seconds. *for 4 points. Pick-up and release = 1.75 sec. at 8 volts for 6 point.*

The "DN-19" relay provides sufficient retardation to bridge the 1.35 second reversal time of the "DP-14" polarized relay, when the polarized relay is operated at its lowest working value. The usual slow release relay does not provide sufficient retardation to bridge this reversal time, and requires that the polarized relay be over-energized somewhat to provide a shorter reversal time. Reducing the energy on the polarized relay is of particular advantage when the polarized relay is used as a track relay and accomplishes the following desirable results: 1. Less power fed into track circuit. 2. Allows the use of larger value of resistor between battery and track, thereby increasing shunting sensitivity, and 3. Makes it possible to work longer track circuits.

VOID
~~PLATE E-4932~~

UNION SWITCH & SIGNAL CO.

FOUR AND SIX POINT STYLE "DN-19" SPECIAL
SLOW RELEASE LINE RELAY

For details refer to Plate E-4975

Order by Plate, Piece, Reference and Abbreviated Description Given in
Heavy Face Type Only

Piece	Ref.	Description	Drawing Reference
	A	Style "DN-19" D.C. Neutral Relay with four front and four back non-independent contacts as shown. Orders should specify the voltage at which relay is to operate.....	C-9077-87
	B	Style "DN-19" D.C. Neutral Relay with six front and six back non-independent contacts. Orders should specify the voltage at which relay is to operate.....	C-9077-