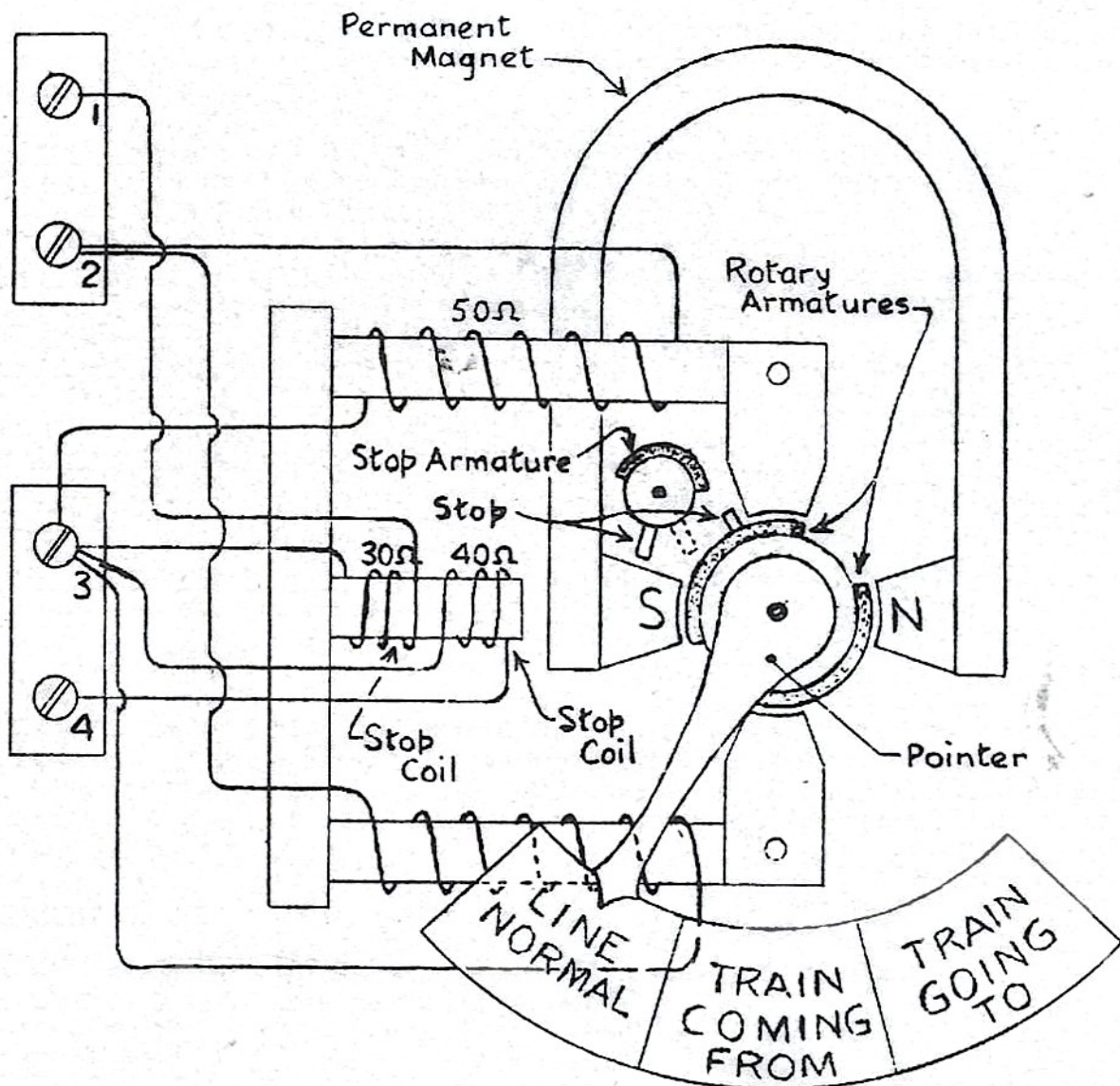


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# TYER'S KEY-TOKEN INSTRUMENT THREE-POSITION INDICATOR



1. The two  $50\Omega$  Operating Coils are connected in parallel between terminals 2 and 3, thus giving a joint resistance of  $25\Omega$ .

Current through the Operating Coils from terminal 2 to terminal 3 moves the Indicator Pointer to the right. Current from terminal 3 to terminal 2 moves or holds the Pointer to the left, i.e. to the "LINE NORMAL" indication. Residual magnetism holds the Pointer at the operated position when current ceases.

2. Current through the  $40\Omega$  Stop Coil from terminal 4 to terminal 3 turns the Stop Armature counter-clockwise and sets the stop so that the Indicator Pointer, when moved by current through the Operating Coils, is arrested in the half-deflection position, i.e. at the "TRAIN COMING FROM" indication.
3. Current through the  $30\Omega$  Stop Coil from terminal 3 to terminal 1 turns the Stop Armature clockwise, thus clearing the Stop and allowing a full deflection of the Pointer to the "TRAIN GOING TO" indication.