

MODEL 14 POWER INTERLOCKING MACHINE GENERAL INFORMATION AND ORDERING INSTRUCTIONS

The Union Model 14 Power Interlocking Machine is used in connection with both electro-pneumatic and electric interlockings. A complete description of the electro-pneumatic machine is contained in Bulletin 73; of the electric machine in Bulletin 100. While a few of the detail features of this machine are mentioned below, reference should be made to the Bulletins mentioned if more complete information is desired.

All Model 14 Power Interlocking Machines are of a uniform height. The distance from the floor line to the centers of the lever shafts is 3' 6 $\frac{1}{2}$ ". The combination board on which are mounted the contact springs and terminal binding posts, is of moulded insulation and is made up in units of convenient size. Thirty-six grooves provide a capacity for the same number of contacts for each roller. Nor is this the maximum for each lever, as the rollers are so arranged that they can be divided in the middle and the lower half operated independently. Thus, if one roller does not provide a sufficient number of contacts, the lower half of the roller of an adjacent lever or any number of other levers, can be made use of by providing link connections to cranks at the bottoms of various rollers (see Refs. 19, 20 and 21, Plate A-2011), thus it is possible to operate an almost unlimited number of contacts by a single lever.

Switch levers are equipped with a latch depressor and a latch circuit controller which is actuated only during the preliminary movement of the lever handle to close the detector lock circuit.

All Model 14 Interlocking Machines are housed in enamel steel cases provided with removable panels allowing access for authorized persons to all parts of the machine. Provision is made for panels to be locked.

UNION SWITCH & SIGNAL CO.

**INFORMATION TO BE SUPPLIED BY THE
RAILROAD**

The following information should be supplied by the Railroad ordering a Model 14 Power Interlocking Machine:

(1) Plan of track showing switches and signals, to a scale of not over 100 ft. to the inch. This plan must show the location of the tower and where the leverman stands with respect to the interlocking machine. The routing of signals should be indicated. Unless the plan indicates preference as to combinations of functions to be operated by single levers, the Signal Company will follow its own best judgment with respect to this.

(2) Any special mechanical locking, time locks, etc., must be specified.

(3) Any special electrical appliances must be specified.

(4) Number and arrangement of lever lights must be shown. Statement should be made of how these are to be controlled.

(5) Separate magnets for detector circuits are not supplied unless specified.

(6) Track Model will be supplied only when specified.

(7) Push Button for control of a calling-on arm from the same lever as is the high signal arm, will be supplied only when specified. This type of control avoids the necessity of a stick relay. When the button has been pushed in, it will be mechanically locked in that position until the lever is put normal, at which time the push button will be automatically restored to its normal position.

(8) Cylinder locks are provided. If a hasp and staple for padlock is desired instead of the standard method, this should be so stated.