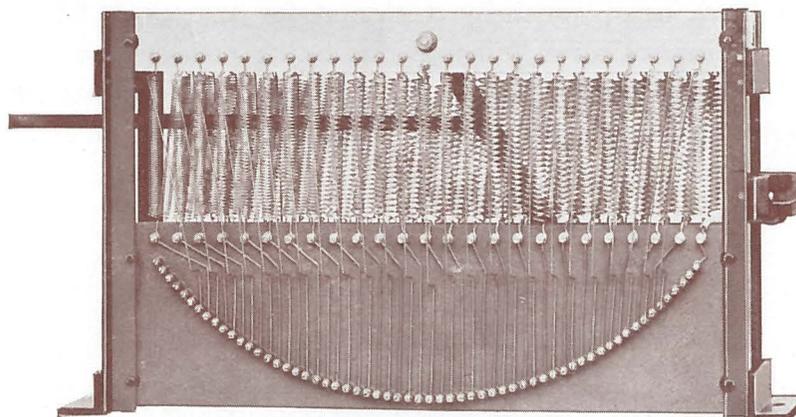


STRAND DIMMERS

"SUNSET" DIMMERS TYPE D (COIL PATTERN)



Type D "Sunset" dimmer.

These dimmers have been developed for use on "STRAND" switchboards, etc., when the majority of the loads are in excess of the maximum for Type A.1 dimmer.

They consist of a substantial frame fitted with resistance coils arranged in two halves, these being connected in series through a moveable brush of anti-friction material. These dimmers are capable of handling a maximum load of 5,000 watts at 100/110v. or 200/250v. When used on 100/110v. for loads above 2,500 watts, and up to the maximum of 5,000 watts, it is necessary for the two halves to be connected in parallel. This is effected by fitting collector segments and using a double brush.

A wide range of variable loads can be handled on these dimmers, the maximum variation being plus or minus $33\frac{1}{3}\%$ of the rated load. The maximum carrying capacity of dimmer is reduced to 80% of figures stated above when wound for a variable load.

For loads greater than those specified above a number of dimmers can be coupled for operation by a single control.

Frame.—Wrought iron of robust design suitably arranged with interchangeable mounting for front or rear of switchboard entry, and for banking for motor drive.

Panels.—Main and top panels of Pierrite C.O. grade heat-resisting insulating material of ample size to prevent warping.

Terminals and Studs.—Studs, screws, etc., are of brass throughout. Studs of ample size are fitted with special collets for connecting coil. Resistance coils are secured with brass screws and nuts, with washers on each side of loop to ensure good contacts.

Resistance Coils.—Graduated winding of nickel-copper alloy wire, non-corrosive, unaffected by atmospheric conditions, and with a negligible temperature co-efficient.

Brush.—Anti-friction "Copper Morganite" of ample section to carry current required without voltage drop.

Insulation.—Panels, coils, brush and other live parts are insulated from the frame with bushings and washers, care being taken to prevent damp creeping in at these points. The insulation resistance of an individual dimmer is not less than 20 megohms measured with a 500-volt testing set.

General.—All dimmers have a definite "off" position. Dimmers are made with 100 steps of resistance and windings are calculated to give flickerless dimming from "full on" to "off" when used with the rated load.

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