Supersedes pages 961 to 969 of General Catalog 1931-1932

JULY 15, 1935



PAGE 1

WESTINGHOUSE SWITCHGEAR DEVICES

ROTARY SWITCHES—TYPE W

Instrument, Control and Auxiliary Types

GENERAL

Application

The Westinghouse type W switches are of the rotary type. They are made in three classifications: namely, instrument, control and auxiliary switches for various applications. These switches are notable for their ruggedness, accessibility and smooth, reliable operation. They are recommended for use with all types of circuit breakers and other classes of apparatus which are electrically controlled. They are insulated for 600 volts and have a continuous current carrying capacity of 10 amperes which is very conservative as indicated by the curve below.

Recommended Interrupting Ratings

Alternating Current 125 Volts—10.0 Amperes 250 Volts— 7.5 Amperes 600 Volts— 1.5 Amperes

Direct Current

125	Volts-4.0	Amperes
250	Volts-2.0	Amperes
600	Volts-0.5	Amperes

The interrupting capacity depends upon the voltage, current and inductance of the circuit controlled. Control relays are to be used in conjunction with control switches on heavy current circuits.

Construction

From the front of the panel, the switch presents a pleasing appearance with its sturdy, convenient blackmolded handle and light finished dial plate.

From the rear, the black polished sides and cadmium plated steel end plates make a neat looking switch.

An operating shaft, made from a



FIG. 3—DRILLING PLAN FOR TYPE W INSTRU-MENT AND CONTROL SWITCHES

*This dimension is 3%-inches for switches Style No. 519110 and 519116.



Fig. 1—Illustration of the Oval, Notched and Pistol-Grip Handles for the Type W Rotary Switches

 $\frac{7}{16}$ -inch diameter cold rolled steel rod, rotates in bronze bearings which are riveted in steel end plates. The steel end plates provide ample support for



FIG. 2—CURVE SHOWING CAPACITIES OF TYPE W SWITCHES

the base and the enameled steel top which is channel-shaped to secure strength. This arrangement assures permanent alignment of the contacts.

The moving contacts are brass segments with a corrosion resisting finish. The segments are separated by spacers of molded moisture-proof composition.

All of the contacts are keyed to an insulated micarta tube which covers the steel operating shaft. These have numbered key notches to facilitate assembling. Spacers and contacts are securely clamped to the shaft.

The stationary contacts are of the self-aligning type and are made of a

suitable material selected for the highest wearing and arc resisting characteristics. Good contact pressure between the moving and stationary contacts is obtained by the use of compression springs which do not carry current. This combination of contact materials operates with a high pressure, wiping action, assuring clean low resistance contacts, with long life.

Multiple laminated copper shunts conduct the current from the contacts to the terminal studs. These studs are mounted on the base in such a manner that they positively will not turn or become loose,

The base is made of an excellent grade of black molded material which has both very high mechanical and dielectric strength, and is ribbed to give ample creepage distance between studs. Each stud hole is numbered for the purpose of identifying the connections on the wiring diagram.

Sheet Micarta side plates slide in grooves in the top and bottom of the switch, snapping snugly into the closed position. This arrangement provides immediate access for the inspection of contacts.

All switches are easily mounted on panels $\frac{1}{8}$, $\frac{1}{4}$, 1, $\frac{1}{2}$ or 2 inches in thickness without changing any of the parts except the mounting screws—the length of which depends upon the thickness of the panel. Correct shaft length is obtained by simply sliding the handle



FIG. 4—REAR VIEW AND DIMENSIONS OF TYPE W INSTRUMENT AND CONTROL SWITCHES

†This dimension is 45%-inches for switches Style No. 519110 and 519116.

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WESTINGHOUSE SWITCHGEAR DEVICES

ROTARY SWITCHES_TYPE W_Continued

GENERAL-Continued

over the shaft until the pointer screw fits into the proper tap-hole in the shaft.

Segments, contacts, studs, shunts, etc., are the same for the entire line of switches. This permits great flexibility of design so that type W switches can be easily supplied for special requirements other than those for which style numbers have been listed. The maximum number of circuits in the unit for instrument switches, and the pistolswitch is 10 but multiple switches grip handle is standard for control able handles.

operated from one handle can be obtained with up to 40 circuits.

Style Numbers

Switch style numbers include mounting screws for a 2-inch panel. When required for other than 2-inch panels, add the style number of extra mounting screws.

The round notched handle is standard

switches. Either of the switches may be obtained with the round notched, or pistol grip handle or with an oval handle.

Special combinations of keys or handles can be obtained on request.

The style number for instrument switches with removable keys does not include keys. Such keys are listed under separate style numbers. Other switches are supplied with non-remov-

INSTRUMENT SWITCHES



FIG. 5-THREE-PHASE AMMETER SWITCH ASSEMBLY WITH SIDE PANELS DRAWN BACK

General

All type W instrument switches, with the exception of ammeter, regulator transfer and temperature indicator switches, have removable keys.

These keys, besides being labelled, are constructed so that they can be inserted only in the proper switch and can be withdrawn only when the switch is in the off position. This precludes the possibility of trouble when several independent circuits may be connected to the same instrument through similar switches. If only one key is used, only one switch can be operated at a time. A key from any dissimilar switch cannot be inserted.

Large notched handles insure easy operation. A suitable notching device assures permanent alignment of the contact segments with the dial marking, and holds the switch in the position to which it is turned. Length of key to suit different panel thicknesses is obtained in a similar manner to that for non-removable handles.

Type W instrument switches are made in standard styles for connecting any instrument or group of instruments selectively to various circuits as may be required for metering or synchronizing.

Ammeter Switches

The ammeter switches are arranged to connect instruments to any phase without opening the secondary circuit of the The three-circurrent transformers. cuit ammeter switch is used where other instruments are to be connected in the circuit beyond the ammeter switch.



FIG. 6-OPERATING KEY FOR TYPE W INSTRU-MENT SWITCH

These switches are arranged to connect the voltmeter to the individual circuit of which the voltage is to be read. Switches

are supplied for reading the voltage from one to six independent circuits.

Frequency Meter Switch

This switch connects the frequency meter to one circuit only. In order to use one frequency meter on several circuits, a separate switch is required for each circuit.

Wattmeter, Power Factor **Meter and Reactive Factor Meter Switches**

These switches connect the instrument transformers of any one polyphase circuit to the proper instrument by means of a suitable combination of voltage and current contacts. A separate switch is required for each polyphase Power factor meter switches circuit. can be used for reactive factor meters by using a suitably marked nameplate.



FIG. 7-TYPE W IN STRUMENT SWITCH WITH SIDE PLATES IN PLACE

WESTINGHOUSE SWITCHGEAR DEVICES

PAGE 3

ROTARY SWITCHES_TYPE W_Continued

INSTRUMENT SWITCHES—Continued

Temperature Indicator Switches

Each temperature switch is arranged to connect the temperature measuring instrument to any one of six exploring coils located in the apparatus, the temperature of which is to be read. Two forms of this switch can be supplied, single-pole and double-pole. Double-pole construction is for use with exploring coil leads of appreciably different lengths. For thermo-couple switch refer to headquarters.

Synchroscope Switch for Synchronizing Between Machine and Bus

The synchronizing switch connects the potential transformer of the circuit to be synchronized and the bus potential transformer to the synchroscope.

One switch is required for each machine when synchronizing to a single bus system and two are required when synchronizing to a double bus system. One form of this switch includes interlock contacts for connecting in the control circuit of the circuit breaker to prevent closing the breaker unless the this switch includes interlock contacts synchronizing switch is in use.

Synchroscope Switch for Synchronizing Between Machines

This type of switch is double-throw and requires a different key for each throw. One switch is required for each machine.

The running key turns the switch so as to connect the voltage transformer of the running machine to the running side of the synchroscope.

The incoming key is used in the switch of the circuit which is to be synchronized, and connects its voltage transformer to the incoming side of the synchroscope. By this means any circuit may be treated either as an incoming or a bus circuit. One form of for connecting in the control circuit of the circuit breaker to prevent closing the breaker unless the synchronizing switch is in use.

Test Switches

The standard type W ammeter, voltmeter or combination instrument switch can be used as a test switch for instruments, relays, etc. The type W switch can be used in any conventional testing system, using independent connection studs, test bus, etc. The key handle can be fixed or removable, with interlocking key.

STYLE NUMBERS

	SWIT	TCHES			
Description of Switches	Schematic Diagram Fig. No.	Drilling Plan Fig. No.	Dimension A, Inches*	Switch Style No.	Key Style No.
Ammeter, two-phase	8	3	53/8	519 108	t
Ammeter, three-phase	9	3	53/8	519 109	i
Ammeter, three independent circuits	10	3	11%	519 110	i
Voltmeter, a-c. or d-c. single-pole	11	3	4 17	519 111	519 126
	12	3	4 17	519 112	519 127
Voltmeter, two-phase or d-c., three-wire	13	3	67/32	519 113	519 128
Voltmeter, three-phase, four-wire	14	3	67/32	591 454	591 660
Voltmeter, three-phase, a-c., three-wire	15	3	67/32	519 114	519 129
Voltmeter, four-circuit a-c. or d-c. two-wire	16	3	7 29	519 115	I
Voltmeter, six-circuit a-c. or d-c. two-wire	17	3	11%2	519 116	1
Frequency meter, two-pole	12	3	4 17	519 117	519 132
Wattmeter, polyphase	18	3	7 32	519 118	519 133
Power factor meter	19	3	7 1/16	591 626	519 134
Temperature indicator, single-pole, six circuits	20	3	7 29	940 082	I
Temperature indicator, two-pole, six circuits	24	3	11%	895 355	
Synchroscope to bus without interlocks	21	3	53%	519 122	519 136
Synchroscope to bus with interlocks	21	3	67/32	519 123	519 137
Synchroscope between machines, without interlocks	22	3	4 17	519 124	519 138† 519 139§
Synchroscope between machines, with interlocks	22 `	3	53/8	519 125	519 140†
					519 141
Regulator transfer switch	23	3	7 29	591 571	
	Ammeter, two-phase. Ammeter, three-phase. Ammeter, three independent circuits. Voltmeter, a-c. or d-c. single-pole. Voltmeter, single-phase or d-c., two-pole. Voltmeter, two-phase or d-c., three-wire. Voltmeter, three-phase, four-wire. Voltmeter, three-phase, a-c., three-wire. Voltmeter, three-phase, a-c., three-wire. Voltmeter, four-circuit a-c. or d-c. two-wire. Voltmeter, six-circuit a-c. or d-c. two-wire. Prequency meter, two-pole. Wattmeter, polyphase. Power factor meter. Temperature indicator, single-pole, six circuits. Temperature indicator, two-pole, six circuits. Synchroscope to bus without interlocks. Synchroscope to bus with interlocks. Synchroscope between machines, with interlocks.	Description of SwitchesSchematic Diagram Fig. No.Ammeter, two-phase.8Ammeter, three-phase.0Ammeter, three independent circuits.10Voltmeter, a.c. or d.c. single-pole.11Voltmeter, single-phase or d.c., two-pole.12Voltmeter, three-phase, four-wire.14Voltmeter, three-phase, a.c., three-wire.16Voltmeter, six-circuit a.c. or d.c. two-wire.16Voltmeter, six-circuit a.c. or d.c. two-wire.17Frequency meter, two-pole.12Wattmeter, polyphase.18Power factor meter.19Temperature indicator, single-pole, six circuits.20Synchroscope to bus without interlocks.21Synchroscope to bus with interlocks.21Synchroscope between machines, with interlocks.22	Description of SwitchesDiagram Fig. No.Plan of Fig. No.Ammeter, two-phase.83Ammeter, three-phase.93Ammeter, three independent circuits.103Voltmeter, a.c. or d-c. single-pole.113Voltmeter, single-phase or d-c., two-pole.123Voltmeter, three-phase, four-wire.133Voltmeter, three-phase, four-wire.143Voltmeter, three-phase, a-c., three-wire.163Voltmeter, six-circuit a-c. or d-c. two-wire.163Voltmeter, six-circuit a-c. or d-c. two-wire.173Frequency meter, two-pole.123Wattmeter, polyphase.183Power factor meter.193Temperature indicator, single-pole, six circuits.203Synchroscope to bus without interlocks.213Synchroscope to bus with interlocks.213Synchroscope between machines, with interlocks.223	Description of SwitchesSchematic Diagram Fig. No.Drilling Plan Fig. No.Dimension A. Inches*Ammeter, two-phase.8353%Ammeter, three-phase.9355%Ammeter, three independent circuits.10311%Voltmeter, a.c. or d.c. single-pole.113443Voltmeter, single-phase or d.c., two-pole.123443Voltmeter, three-phase, four-wire.13361%Voltmeter, three-phase, a.c., three-wire.15361%Voltmeter, three-phase, a.c. or d.c. two-wire.163733Voltmeter, three-phase, a.c. or d.c. two-wire.17311%Voltmeter, three-phase, a.c. or d.c. two-wire.17311%Prequency meter, two-pole.123441Wattmeter, polyphase.183743Prequency meter, two-pole.12314%Frequency meter, two-pole.12311%Prequency meter, two-pole.123743Power factor meter.193743Power factor meter.203743Synchroscope to bus without interlocks.21353%Synchroscope between machines, with interlocks.21353%Synchroscope between machines, with interlocks.22353%	Description of SwitchesSchematic Diagram Fig. No.Dimension A. Inches*Switch Style No.Ammeter, two-phase.83534519108Ammeter, three-phase.93534519109Ammeter, three independent circuits.1031136519110Voltmeter, a-c. or d-c. single-pole.113444519111Voltmeter, single-phase or d-c., two-pole123444519112Voltmeter, two-phase, or d-c., two-pole123614519113Voltmeter, two-phase, or d-c., two-pole143614519114Voltmeter, three-phase, or d-c., three-wire153614519114Voltmeter, tou-phase, a-c., three-wire163733519116Voltmeter, four-circuit a-c. or d-c. two-wire1731114519116Voltmeter, six-circuit a-c. or d-c. two-wire123443519118Voltmeter, polyphase183733519122Power factor meter193714940082Temperature indicator, single-pole, six circuits203733519123Synchroscope to bus without interlocks213614519123Synchroscope to bus within interlocks223413519124Synchroscope between machines, with interlocks223516125

MOUNTING SCREWS FOR INSTRUMENT SWITCHES

Description—Three per set	Style No.
Screws for 1/2-inch thick panel	555 659
Screws for ¼-inch thick panel	555 658
Screws for 1-inch thick panel	555 657
Screws for 1 1/2-inch thick panel	555 656

*Dimension A is the distance from rear of panel to rear end of switch. Running key. Separate key not required.

§Incoming key.

Order by Style Number

37-150 DESCRIPTIVE DATA

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WESTINGHOUSE SWITCHGEAR DEVICES

ROTARY SWITCHES-TYPE W-Continued

INSTRUMENT SWITCHES—Continued

DIAGRAMS OF CONNECTIONS

NorE-Instrument switches are shown for handle end at the top.



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WESTINGHOUSE SWITCHGEAR DEVICES

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ROTARY SWITCHES-TYPE W-Continued

INSTRUMENT SWITCHES—Continued

DIAGRAMS OF CONNECTIONS-Continued



FIG. 17-SIX-CIRCUIT, 2-POLE SWITCH, STYLE NO. 591116



FIG. 18-WATTMETER SWITCH, STYLE NO. 519118



FIG. 19-POWER-FACTOR METER SWITCH, STYLE NO. 591626



FIG. 20—TEMPERATURE INDICATOR SWITCH, STYLE NO. 940087 SINGLE-POLE SIX-CIRCUIT FOR APPROXIMATE LEAD COMPENSATION

NOTE—For six exploring coils, wire as per solid lines. For more than six exploring coils, wire as per solid and dotted lines, using two or more switches as needed. For each generator, use six hot-test coils.



FIG. 21—SWITCH FOR SYNCHRONIZING BETWEEN BUS AND MACHINE WITHOUT INTERLOCKS, STYLE NO. 519122 WITH INTERLOCKS, STYLE NO. 519123



Fig. 22—Switch for Synchronizing Between Machines Without Interlocks, Style No. 519124 With Interlocks, Style No. 519125 \

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ROTARY SWITCHES-TYPE W-Continued

INSTRUMENT SWITCHES—Continued





-TEMPERATURE INDICATOR SWITCH, STYLE NO. 895355, DOUBLE-POLE, SIX-CIRCUIT FOR COMPLETE LEAD COMPENSATION FIG. 24

CONTROL SWITCHES

Application

The type W control switch is for the control of electrically-operated switches and circuit breakers, rheostats, engine and turbine governors, feeder potential regulators, etc., both motor and solenoidoperated. In general control relays are operated directly from the control switches in order to handle such heavy capacity operating current as may be met with, particularly in the case of switches and circuit breakers.

These switches are essentially multicircuit double-throw switches. One form of this switch is used for starting



FIG. 25--CONTROL SWITCH FITTED TO STEEL PANEL WITH SIDE PLATES IN PLACE

induction or synchronous motors, one pull-out feature is provided in the usual position being used to close the starting breakers, the other position being used to close the running breakers. A special



FIG. 26-CONTROL SWITCH ASSEMBLY WITH SIDE PANELS REMOVED

"off" position to trip the breakers when desired. These control switches are also adapted for raising and lowering voltage, both in conjunction with feedervoltage regulators of the induction type, and automatic generator-voltage regulators of any conventional type.

Operation

Trip Position-By turning the control switch to the trip position, the trip coil of the oil circuit breaker is energized. The control switch is latched in this position by pulling the handle forward which action also opens the signal lamp circuit.

Spring Return Handle-Control switches are provided with large pistolgrip handles to facilitate operation by

WESTINGHOUSE SWITCHGEAR DEVICES

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Stule No

ROTARY SWITCHES-TYPE W-Continued

CONTROL SWITCHES—Continued

the switchboard attendant. These switches are provided with a spring return mechanism which causes the switch to return automatically to the may be obtained with circuit breaker "off" position, when released from the operating position.

Mechanical Indicator-All circuit breaker control switches are provided with a mechanical indicating device which shows a red or green marker to

the switch.

Signal Lamp-Signal lamp cutouts control switches. This lamp cutout is in circuit with one or all of the indicating lamps.

Automatic Indicator Cutouts-This alarm system, causing the sounding of breakers or other devices.

indicate the last manual operation of an alarm or the lighting of a lamp on the occurrence of an automatic operation. These contacts are also used for interlocking a common tripping circuit with several control switches.

Indicating Lamps-Suitable indicating lamps can be used in conjunction with control switches to obtain electrical arrangement is generally used for an indication of the position of circuit

STYLE NUMBERS

SWITCHES

Application	Description	Schematic Diagram Fig. No.	Dimension A, Inches *	Style No.
Oil circuit breaker con- trol switches	S. P. D. T. switch with lamp cutouts S. P. D. T. switch with lamp and automatic indicator cutouts S. P. D. T. switch with lamp and two automatic indicator cutouts	29	53/8 6 17 	519 330 519 331 780 374
	 S. P. D. T. switch with overload relay contacts and lamp cutouts S. P. D. T. switch with overload relay contacts, lamp and automatic indicator cutouts. S. P. D. T. switch with overload relay contacts, lamp and two automatic indicator cutouts. 	32	7 <u>%</u> 7 33	519 332 519 333 780 375
Voltage control switches, field rheostat and induction regulator	 2-P. D. T. switch. 3-P. D. T. switch. 2-P. D. T. switch with regulator contacts. 2-P. D. T. switch (induction regulator, 5 position) 	34 35	6 1 7 1 7 1 5 3 %	519 334 519 335 519 336 592 128
Motor control switches Speed control switch	D. T. with two-circuit pull-out trip 2-P. D. T.	37 38	7 22 6 3 2	519 337 519 338

MOUNTING SCREWS FOR CONTROL SWITCHES

Description	Per	Se	et.	
Screws for ½-inch thick panel, 3 per set	19	48	80 79	
Screws for 1-inch thick panel, 3 per set.	19	47	78	

*Dimension A is distance from rear end of the switch to the panel.

DIAGRAMS OF CONNECTIONS

Note:—Auxiliary switches are shown for the open position of the breaker. Control switches are shown as top view, with the handle end at the top of the diagram.



FIG. 28-CIRCUIT BREAKER CONTROL SWITCH, STYLE NO. 519330



Fig. 29—Circuit Breaker Control Switch, Bell and White Lamp for Automatic Trip, Style No. 519331

Order by Style Number

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ROTARY SWITCHES-TYPE W-Continued

CONTROL SWITCHES—Continued

DIAGRAMS OF CONNECTIONS—Continued



FIG. 30—CIRCUIT BREAKER CONTROL SWITCH BELL AND WHITE LAMP FOR AUTOMATIC TRIP INDICATION, STYLE NO. 780374 A—LAMP SIGNALS ON TRIP WIRES B—LAMP SIGNALS ON L WIRES



FIG. 31—STYLE NO. 519332 CIRCUIT BREAKER CONTROL SWITCHES FOR DOUBLE-BUS SYSTEMS FIG. 32-STYLE No. 519333



FIG. 33-CIRCUIT BREAKER CONTROL SWITCH FOR DOUBLE BUS SYSTEM, STYLE NO. 780375

WESTINGHOUSE SWITCHGEAR DEVICES

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ROTARY SWITCHES-TYPE W-Continued

CONTROL SWITCHES—Continued

DIAGRAMS OF CONNECTIONS-Continued



FIG. 36—INDUCTION REGULATOR CONTROL WITH INDUCTION REGULATOR CONTROL SWITCH STYLE NO. 592128

FIG. 37-SWITCH FOR MOTOR CONTROL, STYLE NO. 519337



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ROTARY SWITCHES-TYPE W-Continued

AUXILIARY SWITCHES



Application

The type W auxiliary switch is similar to the instrument and control switches having identical control fingers, rotor segments and molded base. They are applicable to circuit breakers, operating mechanisms, or other apparatus requiring auxiliary switches. These switches are made with 2, 4, 6 and 10 contact circuits. The rotor turns to two positions 90 degrees apart. The rotor segment makes contact with its pair of stationary fingers in one or the other 90degree position. Any individual rotor segment can be rotated 90 degrees to change from a "make" contact to a "break" contact or vice versa. Special

FIG. 39-AUXILIARY SWITCH COMPLETE WITH COVER

segments can be supplied for special types of switches clamp to the squared switching arrangements.

The switch which is equipped with a Micarta cover, as shown in Fig. 39, has provision for bringing leads out of either end of the switch through holes provided in the end brackets. A coverplate is supplied for the hole not in use.

The switch without cover is used on applications where the apparatus is otherwise housed, as for example, with the operating mechanism on outdoor oil circuit breakers. This switch is shown in Fig. 40. The operating lever of both



FIG. 40-AUXILIARY SWITCH ASSEMBLY

STYLE NUMBERS

end of the rotor shaft. Provision is The switch is made in two forms made for changing the length of the with and without terminal covers. operating lever so as to adapt the



FIG. 41—PIPE FLANGE STYLE NO. 762198 FOR USE ON AUXILIARY SWITCHES

switch to an operating rod travel of from 1 to 3 inches. The angular travel of the rotor is always 90 degrees.

Where the wires are to be carried in conduit, the auxiliary switches are arranged to accommodate a special nut, Fig. 41, with 1¹/₄-inch pipe threads which can be bolted to the switch bracket. The nut with mounting bolts Style No. 762198 is not included with the switch style number, but will be furnished, if desired, without additional charge.

		Over-All Length in Inches from Front	STYLE NO			
	Description	of Base to Rear of Switch	With Cover	Without Cover		
	2-pole, 1-"a"—1-"b"*	45%	676 957	591 816		
	4-pole, 2-"a"—2- 'b"*	65%	676 960	591 819		
	6-pole, 3"-a"—3-"b"*	8	676 963	591 822		
	10-pole, 5"-a"—5-"b"*	113%	676 966	591 825		

*The letter "a" and "b" designate "make" and "break" as shown in the N. E. M. A. hand book on switching equipment.

Order by Style Number

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ROTARY SWITCHES-TYPE W-Continued

WEATHER-PROOF AUXILIARY SWITCHES



FIG. 42-2-POLE AUXILIARY SWITCH, COVER REMOVED

switches are completely housed for out- factured from standard indoor switch switches, 1¹/₄-inch conduit on the 6-pole door applications. See Fig. 43. They parts mounted on a cast brass base to switch and 11/2-inch on the 10-poleswitch. are used with remotely controlled, gangoperated, disconnecting switches, or for any other application where it is desired to give a signal or alarm as to the action of some mechanical device.

The type W weatherproof auxiliary 2, 4, 6 or 10-pole types and are manu- 1-inch conduit on the 2 and 4-pole which the cover is bolted.

These switches can be furnished in with pipe plugs. These holes are for construction.



FIG. 43-2-POLE AUXILIARY SWITCH, COVER IN PLACE

A substantial cover, with a cast alloy The base contains 3 holes for 3%-inch flange, is provided to cover the switch. mounting bolts. Holes tapped for con- This cover contains an inner lining of duit connection are provided on two insulating material. All joints are fitted sides and the top, two of which are fitted with gaskets to assure weatherproof

STYLE NUMBERS

Description	Over-All Length in Inches from Front of Base to Rear End of Switch	Style No.
2-pole, 1-"a"—1-"b"*	716	599 938
4-pole, 2-"a"—2-"b"*	834	599 939
6-pole, 3-"a"—3-"b"*	1034	599 940
10-pole, 5-"a"—5-"b"*	1378	599 941

*The letters "a" and "b" designate "make" and "break" as shown in the N.E.M.A. hand book on switching equipment. Dimensions are for reference only. For official dimensions apply to the nearest district office.

OUTLINE DIMENSIONS IN INCHES



FIG. 44-2, 4, 6 AND 10-POLE, 10-AMPERE, 250-VOLT AUXILIARY SWITCH

Order by Style Number

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