



Strip Mount with Type 3M Hardware



Individual Mount

### MOUNTING STYLES

**Types 3A, 3B and 3C:** For matrix or strip mounting; require Type 3M hardware (listed below). Mount in a single cutout: two or more rows can be attached to form a matrix, or one row can be strip mounted. termination for direct wiring (or plug-in to optional connector block, suffix-1). **Types 3G, 3H and 3J:** Two integral clips for snap-in mounting to panels. .060" to .150" thick; can be strip mounted or individually mounted in single cutout. Size .82" x .86" x 2.110" deep overall.

### POWER SWITCHES

Available with Form X (SPDT-NO double-make), Form Y (SPST-NC double-break), or Form Z (SPDT double-make, double-break, break-before-make) contacts. **Rated:** 5 amps inductive resistive at 115 VAC; 3 amps ind.; 5 amps res. at 28 VDC. **Life:** 100,000 operations at rated load. **Operating Force:** 8.0 oz. approx. **Total Travel:** 0.250" approx. **Series 3A:** For matrix or strip mounting; requires Type 3M hardware. **Series 3A-1:** Same as 3A, but with connector block. **Series 3G:** Individual or strip mounting; no additional hardware needed (to order, change prefix 3A to 3G).

Poles	Switch Circuit, Form	Action	Lamp Circuits	Series 3A† Mfr. No.	Series 3A-1 Mfr. No.
1	Z	Mom.	2	3A10*	3A10*-1
1	X	Mom.	2	3A11*	3A11*-1
1	Y	Mom.	2	3A12*	3A12*-1
1	Z	Mom.	1	3A13*	3A13*-1
1	X	Mom.	1	3A14*	3A14*-1
1	Y	Mom.	1	3A15*	3A15*-1
2	Z	Mom.	2	3A20*	3A20*-1
2	X	Mom.	2	3A21*	3A21*-1
2	Y	Mom.	2	3A22*	3A22*-1
2	Z, 1Y	Mom.	2	3A23*	3A23*-1
2	1X, 1Z	Mom.	2	3A24*	3A24*-1
2	Z	Mom.	1	3A25*	3A25*-1
2	X	Mom.	1	3A26*	3A26*-1
2	Y	Mom.	1	3A27*	3A27*-1
2	Z, 1Y	Mom.	1	3A28*	3A28*-1
2	1X, 1Z	Mom.	1	3A29*	3A29*-1
1	Z	Alt.	2	3A30*	3A30*-1
1	X	Alt.	2	3A31*	3A31*-1
1	Y	Alt.	2	3A32*	3A32*-1
1	Z	Alt.	1	3A33*	3A33*-1
1	X	Alt.	1	3A34*	3A34*-1
1	Y	Alt.	1	3A35*	3A35*-1
2	Z	Alt.	2	3A40*	3A40*-1
2	X	Alt.	2	3A41*	3A41*-1
2	Y	Alt.	2	3A42*	3A42*-1
2	Z, 1Y	Alt.	2	3A43*	3A43*-1
2	1X, 1Z	Alt.	2	3A44*	3A44*-1
2	Z	Alt.	1	3A45*	3A45*-1
2	X	Alt.	1	3A46*	3A46*-1
2	Y	Alt.	1	3A47*	3A47*-1
2	Z, 1Y	Alt.	1	3A48*	3A48*-1
2	1X, 1Z	Alt.	1	3A49*	3A49*-1
1	Z	Mom.	None	3A50*	3A50*-1
1	X	Mom.	None	3A51*	3A51*-1
1	Y	Mom.	None	3A52*	3A52*-1
2	Z	Mom.	None	3A53*	3A53*-1
2	X	Mom.	None	3A54*	3A54*-1
2	Y	Mom.	None	3A55*	3A55*-1
2	Z, 1Y	Mom.	None	3A56*	3A56*-1
2	1X, 1Z	Mom.	None	3A57*	3A57*-1
1	Z	Alt.	None	3A58*	3A58*-1
1	X	Alt.	None	3A59*	3A59*-1
1	Y	Alt.	None	3A60*	3A60*-1
2	Z	Alt.	None	3A61*	3A61*-1
2	X	Alt.	None	3A62*	3A62*-1
2	Y	Alt.	None	3A63*	3A62*-1
2	Z, 1Y	Alt.	None	3A64*	3A64*-1
2	1X, 1Z	Alt.	None	3A65*	3A65*-1

\*Add suffix from table below to indicate color. †For series 3G, change prefix 3A to 3G.

### \*COLOR CODES

Add code letter as a suffix to Micro Switch Type No. (for switches with connector block, the code letter should be inserted before the -1 in Type No. e.g., 3A10A-1.

Color Code	Housing (Bezel)	Barrier	Color Code	Housing (Bezel)†	Barrier
A	Black	None	F	Black	Black

†Bezel provided with types 3G only.

Lighted pushbutton switches and matching lighted indicators are available in a wide array of options for display and design flexibility. Choice of matrix, individual or strip mounting; designed for uniform panel appearance.

Switches and lamps can be replaced from front of panel; buttons (order separately) are relegendable. Available with momentary or two-level alternate action; as 5-amp power switches with Form X, Y and Z contacts; or Form A reed switches; all with audible "click click" feedback. Choice or five lighted display colors.

### REED SWITCHES

Form A (normally open) contacts: momentary or alternate action. **AC Ratings:** 10 VA max., inrush or resistive. Max. current, 250 mA at 12 VA. **DC Rating:** 8 watts max. resistive only. Max. current 250 mA at 8 watts. **Operating Force:** 3.0 oz. **Total Travel:** 0.250" approx. **Termination:** Direct wire plug-in to connector blocks, or PC terminals. **Series 3B:** For matrix or strip mounting; requires 3M type hardware. **Series 3B-1:** Same as 3B, but with addition of connector block. **Series 3H:** Individual or strip mounting; no additional hardware required (change prefix 3B to 3M).

Poles	Action	Lamp Ckts.	Termination‡	Series 3B† Mfr. No.	Series 3B-1 Mfr. No.
1	Mom.	2	DW	3B10*	3B10*-1
1	Mom.	1	DW	3B11*	3B11*-1
2	Mom.	2	DW	3B20*	3B20*-1
2	Mom.	1	DW	3B21*	3B21*-1
1	Alt.	2	DW	3B30*	3B30*-1
1	Alt.	1	DW	3B31*	3B31*-1
2	Alt.	2	DW	3B40*	3B40*-1
2	Alt.	1	DW	3B41*	3B41*-1
1	Mom.	2	PC	3B50*	3B50*-1
1	Mom.	1	PC	3B51*	3B51*-1
2	Mom.	2	PC	3B60*	3B60*-1
2	Mom.	1	PC	3B61*	3B61*-1
1	Alt.	2	PC	3B70*	3B70*-1
1	Alt.	1	PC	3B71*	3B71*-1
2	Alt.	2	PC	3B80*	3B80*-1
2	Alt.	1	PC	3B81*	3B81*-1

\*Add suffix fromtable below to indicate color. †For Series 3H, change prefix 3B to 3H. ‡DW—for direct wiring to switch; PC—for terminating on printed circuit board.

### BUTTONS

Re-legendable one-section buttons are easily removed by pulling forward out of switch or indicator housing. Lamps and legends can be changed from front of panel. Transparent colorless insert fits over colored diffuser plate and snaps into button shell. Legends may be applied to diffuser plate, which can be easily changed. Display is provided by one or two T-1, 5 or 28 volt lamps. For hot stamp legends (up to six 7/64" high letters in each or two rows) change N in Type No. to L.

Mfr. Number	Display	Shell Color	Lamps (Assembled)
3D-11(**)1N-1	1-section	Black	One 5-volt
3D-11(**)1N-2	1-section	Black	Two 5-volt
3D-11(**)1N-3	1-section	Black	One 28-volt
3D-11(**)1N-4	1-section	Black	Two 28-volt
3D-11(**)1N	1-section	Black	None
3D-21(**)1N-1	2-section	Black	One 5-volt
3D-21(**)1N-2	2-section	Black	Two 5-volt
3D-21(**)1N-3	2-section	Black	One 28-volt
3D-21(**)1N-4	2-section	Black	Two 28-volt
3D-21(**)1N	2-section	Black	None

\*\*Insert two letters to indicate display colors (W—white; R—red; G—green; B—blue; Y—yellow). For two-section buttons, add letter for top section first then for bottom section. For one-section buttons, add double letters (RR, BB, etc.)

### MOUNTING HARDWARE

For strip or matrix mounting or 3A, 3B and 3C modules. Consists of two mounting bars and two mounting blocks. **Type 3M1:** For use with connector blocks for plug-in wiring. **Type 3M2:** Narrow width type for direct wiring. To determine row length, add the number of switches and/or indicators; then convert the total to the proper suffix number (i.e. 09 for a 5 row unit).

Row Lgth., Units	Standard No. 3M1-	Narrow No. 3M2-	Row Lgth., Units	Standard No. 3M1-	Narrow No. 3M2-
1	01	01	9	17	17
2	03	03	10	19	19
3	05	05	11	21	21
4	07	07	12	23	21
5	09	09	13	25	25
6	11	11	14	27	27
7	13	13	15	29	29
8	15	15	16	31	31