# Honeywell

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### **Manual Switches**

### Pushbutton Switches and Indicators



Bezel on all sides



Barriers on short sides



Barriers on long sides

#### **FEATURES**

- Provides distinctive color display whether lighted or unlighted.
- Convenient front panel mounting and relamping, without tools.
- Matching indicators.
- Locked button option discourages tampering.
- Choice of transmitted color, projected color, or dead front display.
- UL recognized, CSA certified.



Barrier on one short side



Barriers on one long side

### MOUNTING

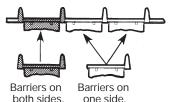
Snap-in mounting. Switch or indicator is easily inserted into the cutout. Mounting clips grip the panel. No tools are needed.



Housings with a full bezel can be front panel or sub-panel mounted, individually or in strips.

Barrier type housings are normally mounted top-of-panel in strips, but can also be individually mounted. Barriers can be on either the short or long housing sides.

The drawing shows how housings with a barrier on one side are used in a strip of two or more units. The first has a barrier on two sides, while all other units have a barrier on one side, and butt against each other.





Button



Incandescent Lamp

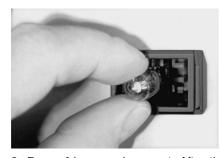


Housing

#### RELAMPING



 Lamps and legends can be changed from panel front. When button is removed, lamp is extracted from its socket and retained in button.



Ease of lamp replacement. After the inoperative lamp is automatically removed with the button, the new lamp is inserted without the use of tools.

#### **ELECTRICAL RATINGS**

5-amp silver contacts — 5 amps res., 3 amps ind., 30 VDC. UL code L-4: 5 amps, 250 VAC

10-amp silver contacts — UL code L-285; 10 amps, 1/4 Hp, 125 or 250 VAC.

Gold contacts — 1 amp res., 0.5 amp, ind., 30 VDC UL code L-22: 1 amp, 125 VAC

Gold alloy contacts — 0.1 amp, res., 30 VDC; 1 amp, 125 VAC.

#### LOCKED BUTTON OPTION

Series 4 can be furnished with a locked button option for use in areas accessible to the public, where tampering and vandalism are problems. The housing has a special mounting clip with built-in button retainer. This mounting clip must be removed from behind panel to allow button removal. Button movement during switch operation is unaffected by locked button feature. (These units cannot be relamped from front of panel.)

### **Pushbutton Switches and Indicators**

#### SWITCH HOUSING ORDER GUIDE

Order buttons separately from page 89.

## Switch Housing Style (Black)

4A11B

#### 4A11B

Bezel: all sides Mtg. clips: long sides

#### 4A34B

Barrier: one long side Mtg. clips: short sides

#### 4A21B

Barriers: short sides Mtg. clips: long sides

#### 4A23B

Barrier: one short side Mtg. clips: long sides

#### With Housing Provision for Locked Button

#### 4A13B

Bezel: all sides Mtg. clips: long sides

#### 4A25B

Barriers: short sides Mtg. clips: long sides

#### 4A26B

Barrier: one short side Mtg. clips: long sides

Switching Element			
		Terminals	
Electrical Data	Action	.110 QC	
1-Pole (SPDT), 5 a. silver contacts	Momentary	AA	
	Alt. Action	ВА	
2-Pole (DPDT), 5 a. silver contacts	Momentary	EA	
	Alt. Action	FA	
2-Pole (DPDT),	Momentary	NA	
10 a. silver contacts	Alt. Action	PA	

<u>11</u>
Incandescent Illumination
11 No lamp, has lamp socket for T-31/4 wedge base lamps.
<b>21</b> #161 12-volt T-3¼ lamp.
<b>31</b> #656 or 152 28-volt T-3¼ lamp
<b>91</b> Unlighted, no lamp socket.



# Example: 4A11BAA11

Black switch housing with a bezel on all sides, mounting clips on long sides, 1-pole momentary-action 5-amp silver contacts, 110" quick-connect/solder terminals, and a T-31/4 lamp socket.

#### MOUNTING CLIP ORIENTATION

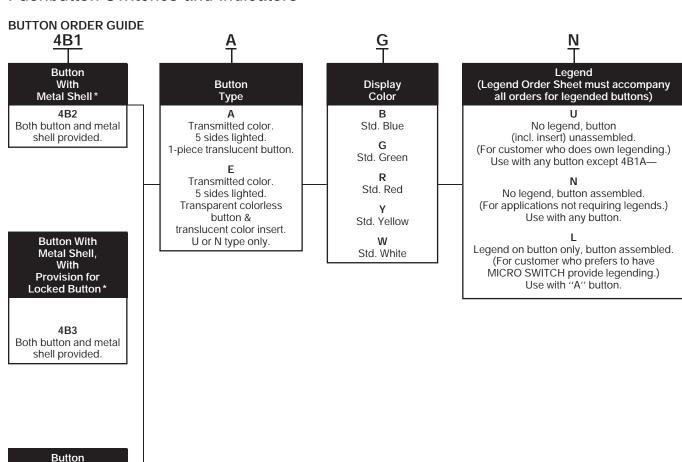
Mounting clips on the **long sides** of the housing are specified when individually mounted or when the long sides of strip mounting housings parallel the long sides of the panel cutout slot. The most secure mounting is achieved when the mounting clips are on the long sides.

Mounting clips on the **short sides** of the housing are specified when short sides of strip mounted housings parallel the long sides of the panel cutout slot.

88

### **Manual Switches**

### Pushbutton Switches and Indicators



Without Metal Shell

4B1

Button only. (without metal shell). For replacement purposes only.

\*To be ordered with switch.



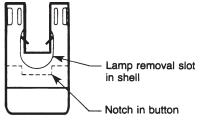


Button

Button and metal shell

Example: **4B1AGN** 

Green (transmitted color) unlegended button. (If the button shell is also desired, substitute 4B2 for 4B1.)





Note: legended button should be assembled as shown above, with button notch keyed to lamp removal slot in shell. This will reduce possibility of lamp droppage when button is removed from the housing. Buttons are legended in this manner.

#### **LEGENDING**

#### Pad printed legends

Use Legend Order Sheet FO-63039 (see page 98) to specify pad printed legends. Reproduce it on your office copier. Legends are oversprayed for maximum durability.

#### Film legends

Film legends are not supplied by MICRO SWITCH. However, this service is readily available from commercial sources or may be provided through your in-house capabilities. The film should be polyester to withstand lamp heat and must be precision cut, per the dimensions shown on the next page, to insure proper alignment.

The film fits into a small undercut on the face of the button insert. The film is held securely when the outer button and insert are snapped together. (Note: It is difficult to disassemble for legend changes without damaging the parts.)

Button and insert should be snapped together prior to being assembled to the button shell.

# Pushbutton Switches and Indicators

#### LAMP ORDER GUIDE

Catalog Listing	IIIum. Code	Incandescent Lamp Description
4Z231	31	#656 or #152 28-volt (T-31/4)

#### **LAMP DATA**

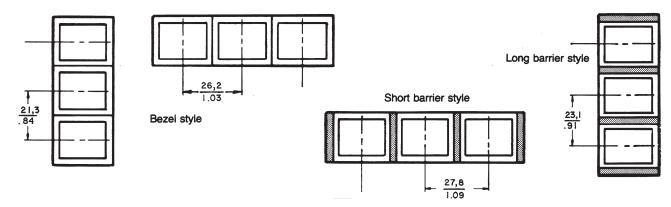
Following data was compiled from manufacturers' specifications and is provided for reference only.

Illum. Code	Industry Lamp No.	Design Volts	Incandescen	t Lamp Sp	ecificatio	ns
31	656 or 152	28	Socket volts Amps MSCP Life (hrs. avg.)	28.0 .06 .65 5,000	27.0 .057 .52 7,500	26.0 .054 .49 10,000

#### METAL SHELL ORDER GUIDE

Catalog Listing	Description
4Z41	For type 4B1 buttons

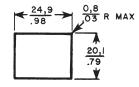
#### MOUNTING CENTERS FOR STRIP MOUNT



#### PANEL CUTOUT FOR STRIP MOUNT

Housing Style		+0,38 +.015 Dimensions -0,00000	
		Width	Length
Short Sides	Full Bezel	79" (20,1 mm)	[No. of units x 1.03" (26,2 mm)]05" (1,4 mm)
Abutting	Short Barrier	79" (20,1 mm)	[No. of units x 1.09" (27,8 mm)]12" (3,0 mm)
Long	Full Bezel	.98" (24,8 mm)	[No. of units x .84" (21,3 mm)]05" (1,4 mm)
Sides Abutting	Long Barrier	.98" (24,8 mm)	[No. of units x .91" (23,1 mm)]12" (3,0 mm)

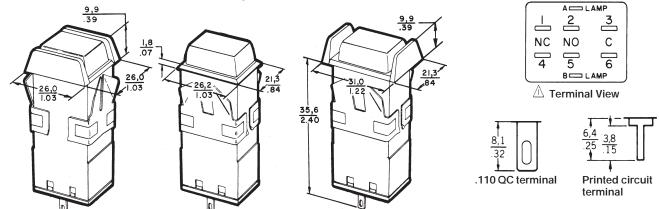
PANEL CUTOUT FOR INDIVIDUAL MOUNT (any housing style)



### Series 4

### **Pushbutton Switches and Indicators**

**MOUNTING DIMENSIONS** (For reference only)



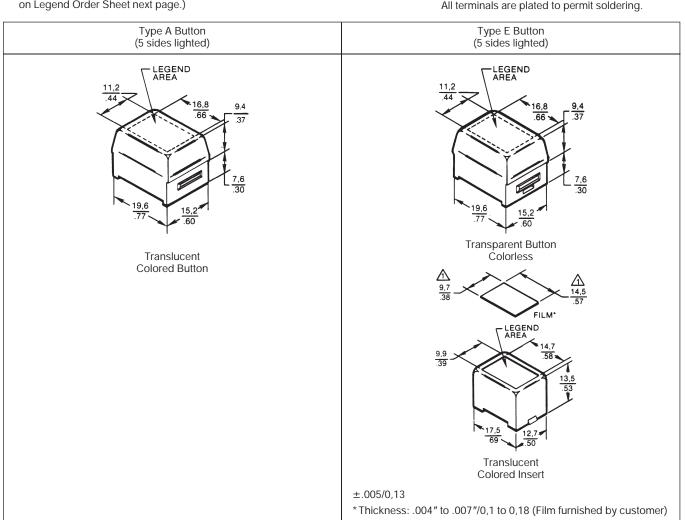
Panel thickness: .040-.200 in. (1,02-5,08 mm)

0.0 = mm

 $\triangle$  For proper legend orientation, Series 4 switch when viewed from front of panel, should have terminals 1 and 3 up for Figures 1 & 3 and to the right for Figures 2 and 4. (Figures 1-4 on Legend Order Sheet next page.)

Quick-connect terminals are .110" (2,8 mm) wide by .020" (0,5 mm) thick. The slot is .130" (3,3 mm) long by .048" (1,2 mm). Printed circuit terminals are: Lamp — .025 (0,6 mm) by .020" (0,5 mm): Switch — .025" (0,6 mm) square.

All terminals are plated to permit soldering.



# Pushbutton Switches and Indicators