Series 4

Pushbutton Switches and Indicators



Manual Switches

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



MOUNTING

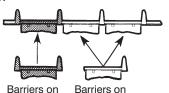
Snap-in mounting. Switch or indicator is easily inserted into the cutout. Mounting clips grip the panel. No tools are needed.



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.



one side.

both sides.

Barriers on one long side



Button



Incandescent Lamp

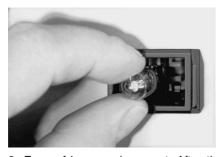


Housing

RELAMPING



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



2. 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, 1/6 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

4A11B

(Black)

Order buttons separately from page 109.

Switch Housing Style

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

Sw	vitching Element	
		Terminals
Electrical Data	Action	.110 QC
1-Pole (SPDT),	Momentary	AA
5 a. silver contacts	Alt. Action	ВА
2-Pole (DPDT),	Momentary	EA
5 a. silver contacts	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-3½ wedge base lamps.
21 #161 12-volt T-3½ lamp.
31 #656 or 152 28-volt T-3¼ lamp
91 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.

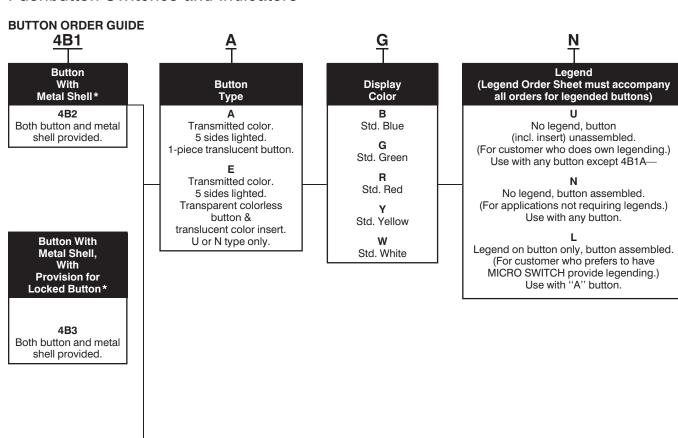
MOUNTING CLIP ORIENTATION

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.

Manual Switches

Pushbutton Switches and Indicators



Button Without Metal Shell

4B1

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

*To be ordered with switch.



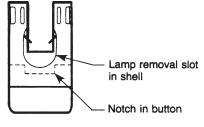


Button

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 110) 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	Illum. Code	Incandescent Lamp Description
4Z231	31	#656 or #152 28-volt (T-31/4)

LAMP DATA

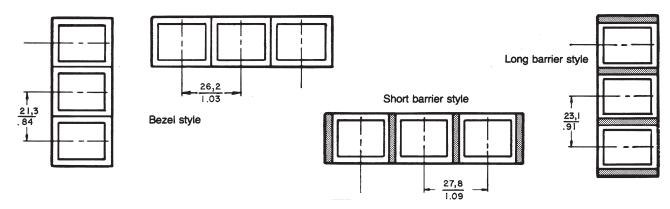
Following data was compiled from manufacturers' specifications and is provided for reference only.

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

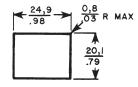
MOUNTING CENTERS FOR STRIP MOUNT



PANEL CUTOUT FOR STRIP MOUNT

	Housing		+0,38 +.015 Dimensions -0,00000
	Style	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)

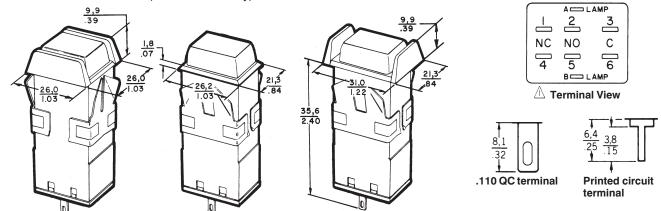
PANEL CUTOUT FOR INDIVIDUAL MOUNT (any housing style)



Series 4

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MOUNTING DIMENSIONS (For reference only)



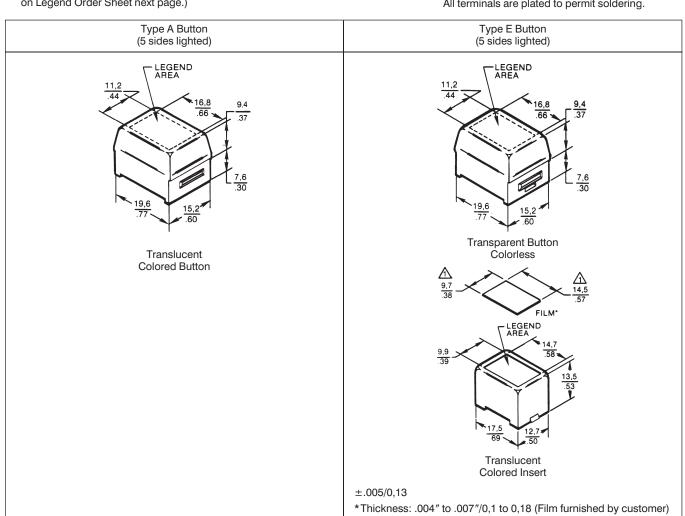
Panel thickness: .040-.200 in. (1,02-5,08 mm)

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.



																				Honeywell	
'Series 4" Legend Order Sheet	9S 4	_	Leg	en	0 p	ıdı	er (She	et												
ACCOUNT NO.	NO.				1									Catalog Listing 4	sting 4						
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. Place vin appropriate "TYPE SIZE" column (refer . Place vin BLACK or WHITE legend color column.	n appro n BLAC	opriate XK or	e "TYP WHITE	E SIZI	E" coli	lor col	(refer i	to CH/	4RT "C	;" for e	Place√ in appropriate "TYPE SIZE" column (refer to CHART "C" for examples). Place√ in BLACK or WHITE legend color column.			MICRO S	MICRO SWITCH Sales Order	les Order		Line Number		Schedule No.	
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EGEND ORDER CHART	RDER	CHA	IRT																	NOTE: Use this area to show special Legend Locations or Configurations NOT shown above. NON-STANDARD legends	
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		5/64	5/64 7/64 9/64 13/64	9/64	3/64	5/16		Black White	<u>i</u>		1st Line	Sequence: Left-to-Right or Top-to-Bottom 2nd Line 3rd Line	eff-to-Rig	ht or Top- 3rd Line	p-to-Bo	ttom 7	4th Line	5th Line			
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Mouser Electronics

Authorized Distributor

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Honeywell:

4A11BFA11 4B1AAN 4B1ABN 4B1AGN 4B1ARN 4B1AWN 4B1AYN 4B2AAN 4B2ABL 4B2ABN 4B2AGL 4B2AGN 4B2AGU 4B2ARL 4B2ARN 4B2ARU 4B2AWL 4B2AWN 4B2AWU 4B2AYL 4B2AYN 4B2AYU 4A21BFA11 4A11BAA91 4A23BEA11 4A23BPA11 4A23BAA11 4A23BEA31 4A32BPA11 4A21BEA31 4A11BAA11 4B2EYU 4A32BNA11 4A21BFA31 4A11BEA11 4A21BEA11 4A21BAA11 4A21BAA11