# Honeywell

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This PDF catalog information was published in November 2000.



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www.honeywell.com/sensing

# **Electronic Control Pushbutton**

#### INCANDESCENT OR NON-LIGHTED DISPLAY





Buttons ordered separately

**Electrical Data** page 11 page 30/31 **Buttons** Lamps and LEDs page 46 Accessories pages 44/45 **Mounting Dimensions** pages 47/50

#### **FEATURES**

- 1, 2, or 4 poles.
- Silver or gold contacts.
- Full guard bezel option.
- Momentary or 2-level alternate action (push-on, push-off).
- UL recognized, CSA certified.
- Lamps can be furnished installed or ordered separately.
- Lamp circuit independent of switch circuit.











\*AML21 Series: 1 pole and 2-pole only.

AA

### **AML21 ORDER GUIDE** AML21 B

Housing Type			
St	andard Bezel:		
AML21B Square Non-Lighted			
AML21C	Square 1 Lamp Ckt.		
AML21E	Rect. Non-Lighted		
AML21F Rect. 1 Lamp Ckt.			
AML21G	Rect. 2 Lamp Ckts.		
Full Guard Bezel:			
AML21H Square Non-Lighted			

AML21J Square 1 Lamp Ckt. Rect. Non-Lighted AML21K AML21L Rect. 1 Lamp Ckt. Rect. 2 Lamp Ckts. AML21M

Bezel Color В Black

<b>A</b> T		
Incandescent Lamp Type		
<b>A</b> No Lamp Installed		
<b>B</b> 6 V Lamp*		
<b>C</b> 14 V Lamp*		
<b>E</b> 28 V Lamp*		

Terminal Type
2 .110 × .020 (Solder or Quick-Connect)
3 .025 × .025 (Printed Ckt. or Push-On)

$\frac{\alpha}{\Box}$				
	y Codes double-throw)			
Silver Contacts	Mom. Action  AA 1-Pole  AC 2-Pole  CC 4-Pole			
	Alt. Action AB 1-Pole AD 2-Pole CD 4-Pole			
Gold Contacts	Mom. Action BA 1-Pole BC 2-Pole DC 4-Pole			
	Alt. Action BB 1-Pole BD 2-Pole DD 4-Pole			
Gold-Plated Silver Contacts	Mom. Action <b>EA</b> 1-Pole <b>EC</b> 2-Pole			
	Alt. Action EB 1-Pole ED 2-Pole			

<sup>\*</sup> Lamps will be installed per each lamp circuit specified in the Housing Type.

Example: AML21BBA2AA

Square pushbutton switch housing nonlighted; black bezel; .110 × .020 termination; momentary action; 1-pole, double-

throw; silver contacts.

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# **Manual Switches**

# **Electronic Control Pushbutton**

#### **LED DISPLAY**



Buttons with LED "window" ordered separately. LEDs are not replaceable.

#### **FEATURES**

- Identical to AML21 switches, except furnished with high efficiency LED display.
- Rectangular LED's are flush with button surface, providing wide angle indication.
- Optional diode protection for LED's.
- 5 thru 24 VDC LED devices have an internal resistor to maintain current at nominal 20 mA.
- UL recognized, CSA certified.

В

 LED circuit independent of switch circuit. Electrical Data
Buttons
Lamps and LEDs
Accessories
Mounting Dimensions

page 11 pages 30/31 page 46 pages 44/45 pages 47/50









\*AML22 Series: 1 pole and 2-pole only.

### AML22 ORDER GUIDE AML22 C

Housing Type		
Standard Bezel:		
AML22C Square 1 LED		
AML22H Square 1 High-		
Profile LED (For use with		
AML52-A buttons)		
Full Guard Bezel:		
AML22J Square 1 LED		

<u>T_</u>
Bezel
Color
В
Black

В

T				
LED Color/ Voltage				
F	Red			
В	٧*			
С	5V			
D	10V			
E	15V			
F	24V			
Ye	ellow			
H	٧*			
J	5V			
K	10V			
L	15V			
M	24V			
G	reen			
R	٧*			
S	5V			
T	10V			
W	15V			
Х	24V			

	Terminal Type		
	2 .110 × .020 (Solder or Quick-Connect)		
	<b>3</b> .025 × .025 (Printed Ckt., or Push-On)		
	8 .110 × .020 With Diode Protection for LED		

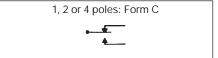
Circuitry Codes (Each pole has double-throw)				
Silver Contacts	Mom. Action AA 1-Pole AC 2-Pole CC 4-Pole			
	Alt. Action AB 1-Pole AD 2-Pole CD 4-Pole			
Gold Contacts	Mom. Action BA 1-Pole BC 2-Pole DC 4-Pole			
	Alt. Action BB 1-Pole BD 2-Pole DD 4-Pole			
Gold-Plated Silver Contacts	Mom. Action <b>EA</b> 1-Pole <b>EC</b> 2-Pole			
	Alt. Action EB 1-Pole ED 2-Pole			

\* See LED information for devices without current limiting resistor, page 46.

#### Example: AML22CBB2AA

Square pushbutton switch housing with one LED, black bezel; red LED (without resistor); .110  $\times$  .020 termination; momentary action, 1-pole, double-throw; silver contacts.

#### **CONTACT ARRANGEMENT**



## **Electronic Control Paddle**

#### INCANDESCENT OR NON-LIGHTED DISPLAY



Covers ordered separately.

#### **FEATURES**

- Silver or gold contacts.
- 1, 2 or 4 poles.
- Toggle type paddle operators permanently installed in rectangular housings.
- Covers for the switch housing may be lighted or unlighted.

  • UL recognized, CSA certified.
- Lamps can be furnished installed or ordered separately.
- Lamp circuit independent of switch circuit.

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Paddle Covers	page 35
Lamps and LEDs	page <b>46</b>
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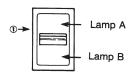




\*AML23 Series: 1 pole and 2-pole only.

*AML23 ORDER	GUIDE				
AML23 E	<u>В</u> 	<b>A</b> T	<u>2</u> 	<u>AA</u>	<u>01</u>
Housing Type	Operator/Bezel Color	Incandescent Lamp Type	Terminal Type	Circuitry Codes	Operating Action
AML23 E Rectangular Non-Lighted	B Black/Black	A No Lamp Installed	2 .110 × .020 (Solder or Quick-Connect)	Insert Code letters as shown in Circuitry Chart	Insert Code numbers from Operating Action Chart
AML23 F Rectangular 1 Lamp Ckt. (A)		B 6 V Lamp*	3 .025 × .025 (Printed Ckt.,		
AML23 G Rectangular 2 Lamp Ckts. (A & B)		14 V Lamp* <b>E</b> 28 V Lamp*	or Push-on)		

<sup>\*</sup> Lamps will be installed per each lamp circuit specified in the Housing Type.



① The "MICRO SWITCH" identification is shown on this side of the switch housings.

#### Example: AML23EBA2AA01

Rectangular non-lighted paddle switch housing; black paddle and bezel; .110 × .020 terminals; with one circuit ON and one circuit OFF in each extreme operator position (maintained).

#### **OPERATING ACTION**

	① <del>[</del>				
	2-Position:				
Maint.	<b>01</b> None <b>02</b>	Maint.			
Mom.	None	Maint.			
Maint.	<b>03</b> None	Mom.			
	3-Position:				
Maint.	<b>04</b> Maint. <b>05</b>	Maint.			
Mom.	Maint. <b>06</b>	Mom.			
Maint.	Maint.	Mom.			
Mom.	Maint.	Maint.			

#### CIRCUITRY

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CIRCUITRY							
Silver Contacts	Gold Contacts	2-Pos	ition		3-Position	. 🚣	31
AA	BA	3 2 1	3 2 1	3 2 1	3 2 1	3 2 1	2!
	BC iminated es only)	3 2 1	3 2 1	3 2 1	3 2 1	3 2 1	16 31 15 21 14 11
CA	DA	3 2 1 6 5 4	3 2 1	3 2 1	3 2 1	3 2 1	6 - 5 - 4 - 3 - 2 - 1 - 1
	DC iminated es only)	3 2 1 6 5 4 9 8 7	3 2 1 6 5 4 9 8 7	3 2 1 6 5 4 9 8 7	3 2 I 6 5 4 9 8 7	3 2 1 6 5 4 9 8 7	

# **Manual Switches**

## **Electronic Control Paddle**

#### **LED DISPLAY**



Covers with LED "window" ordered separately.

#### **FEATURES**

- Identical to AML23, except furnished with one or two rectangular high efficiency LED's which give flush display area and wide angle indication.
- Available with or without diode protection for LED's.
- LED circuit independent of switch circuit.

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- 5 thru 24 VDC devices have internal resistor to maintain current at nominal 20 mA.
- UL recognized, CSA certified.









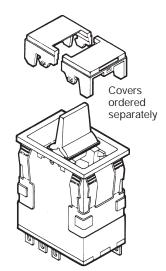
\*AML25 Series: 1 pole and 2-pole only.

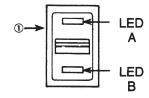
AML25 ORDE	R GUIDE						
AML25 F	<u>B</u> 	<u>B</u> 	<u>2</u> T	<u>AA</u>	<u>01</u>	<u>R</u> 	<u> </u>
Housing Type	Operator/ Bezel Color	LED Voltage	Terminal Type/ Diode Protection	Circuitry Codes	Operating Code	LED Color (LED A)	LED Color (LED B)
AML25 F Rectangular 1 LED  AML25 G Rectangular 2 LED's	B Black/Black	B V* C 5 V D 10 V	2 .110 × .020 (Solder or Q-C) 3 .025 × .025 (Printed Ckt., or Push-On	Insert code letters as shown in Circuitry Chart	Insert code numbers from Operating Action Chart	R Red Y Yellow G Green X No LED	R Red Y Yellow G Green X No LED
		E 15 V F 24 V	8 .110 × .020 w/Diode protection	available only with AA BA CA DA circuitry	miting recistor, page	16	

#### Example: AML25FBB2AA01RX

Rectangular paddle switch; illuminated with one red LED, this device has a black paddle and bezel, and .110  $\times$  .020 terminals; with one circuit ON and one circuit OFF in each extreme operator position (maintained).

NOTE: For further information on replacement LED's, call the 800 number.





1) The "MICRO SWITCH" identification is shown on this side of the switch housings.

## **Electronic Control Rocker**

#### INCANDESCENT OR NON-LIGHTED DISPLAY

#### **FEATURES**

- Silver or gold contacts.
- 2 or 3 position operation.
- UL recognized, CSA certified.
- Lamps can be furnished installed or ordered separately.
- Lamp circuit independent of switch circuit.

Electrical Data page 11 page 39 Rockers Lamps page 46 pages 44/45 Accessories pages 47/50 **Mounting Dimensions** 







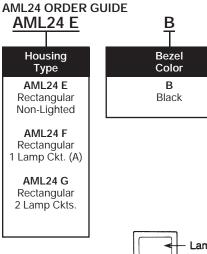


\*AML24 Series: 1 pole and 2-pole only.

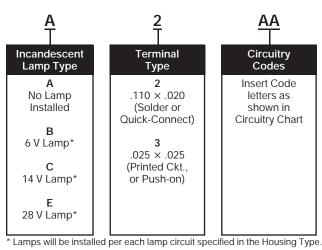
**CIRCUITRY** 

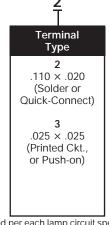
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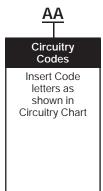
Rocker operators ordered separately.

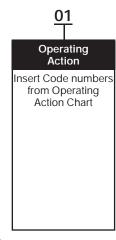


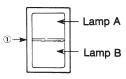












① The "MICRO SWITCH" identification is shown on this side of the switch housings.

#### Example: AML24EBA2AA01

Rectangular non-lighted rocker switch housing; black bezel; .110 × .020 terminals; with one circuit ON and one circuit OFF in each extreme operator position (maintained).

#### **OPERATING ACTION**

Silver Contacts	Gold Contacts	2-Pos	ition		3-Position		31
AA	ВА	3 2 1	3 2 1	3 2 1	3 2 1	3 2 1	21
AC (Non illu	BC iminated	3 2 1	3 2 1	3 2 1	3 2 1	3 2 1	16 30 05 21
switche	es only)	6 5 4	6 5 4	6 5 4	6 5 4	6 5 4	14 11
CA	DA	3 2 1 6 5 4	3 2 1 6 5 4	3 2 1	3 2 1	3 2 1	6- 5- 4- 3- 2- 1-
CC (Non illu	DC iminated	3 2 1	3 2 1	3 2 1	3 2 1	3 2 1	12 6 - -11 5 - -10 4 - -9 3 - -8 2
switche		9 8 7	9 8 7	9 8 7	9 8 7	9 8 7	. 7 1.

	0	
	2-Position:	
Maint.	01 None 02	Maint.
Mom.	None 03	Maint.
Maint.	None	Mom.
	3-Position:	
Maint.	<b>04</b> Maint. <b>05</b>	Maint.
Mom.	Maint. <b>06</b>	Mom.
Maint.	Maint. <b>07</b>	Mom.
Mom.	Maint.	Maint.

# **Manual Switches**

# **Electronic Control Rocker**

#### LED DISPLAY



Rocker operators ordered separately. LEDs are not replaceable.

#### **FEATURES**

- Identical to AML24, except furnished with one or two rectangular high efficiency LED's which give flush display area and wide angle indication.
- Available with or without diode protection for LED's.
- LED circuit independent of switch circuit.

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	1 3

- 5 thru 24 VDC LED devices have internal resistor to maintain current at nominal 20 mA.
- UL recognized, CSA certified.









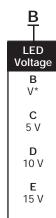


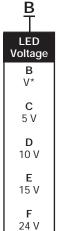
\*AML26 Series: 1 pole and 2-pole only.

# **ER GUIDE**

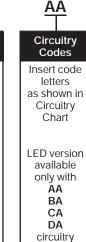
AML26 ORDE AML26 F
Housing Type
AML26 F 1 LED
AML26 G 2 LED's

**Bezel Color** Black

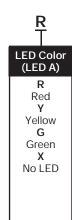


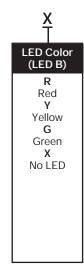


## Terminal Type/ **Diode Protection** $.110 \times .020$ (Solder or Quick-Connect 3 $.025 \times .025$ (Printed Ckt., or Push-On) $.110 \times .020$ w/Diode for LED protection



# 01 Operating Action Insert code numbers from Operating . Action Chart

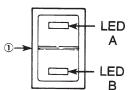




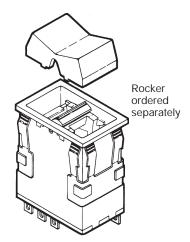
**Manuals** 

#### Example: AML26FBB2AA01RX

Rectangular rocker switch; illuminated with one LED, this device has a black bezel, .110  $\times$  .020 terminals; with one circuit ON and one circuit OFF in each extreme operator position (maintained).



① The "MICRO SWITCH" identification is shown on this side of the switch housings.



<sup>\*</sup> See LED application information for devices without current-limiting resistor, page 46.

# Electronic Control Keylock

#### **NON-LIGHTED**



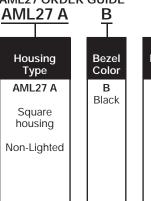
#### **FEATURES**

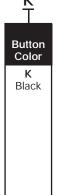
- Enable control of access to computer peripherals, keyboards, point-of-sale terminals, and security systems which are locked when unattended; and other locations where tampering must be discouraged.
- 2 or 3 positions, maintained (90° throw) and momentary action (60° throw).
- 5-bit key combinations

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- UL recognized, CSA certified.
- Static discharge protection (up to 20 kV when grounded).

# **AML27 ORDER GUIDE**

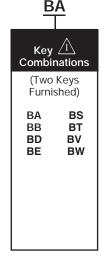




Terminal Type
2 .110 × .020 (Solder or Quick-Connect)
3 .025 × .025 (Printed Circuit or Push-On)

Circuitry Codes (Each pole has double-throw)
Silver Contacts:  AA 1 pole AC 2 pole
Gold Contacts:  BA 1 pole BC 2 pole

Operation Action (Key out in center position, except where noted)				
CCW	Center	CW		
None	<b>21</b> Maint.	Maint.		
None	22* Maint.	Maint.		
None	23 Maint.	Mom.		
Maint.	<b>24</b> Maint.	Maint.		
Mom.	25 Maint.	Mom.		
Maint.	26** Maint.	Maint.		
Mom.	27*** Maint.	Maint.		
Maint.	28*** Maint.	Maint.		
Maint.	29† Maint.	Maint.		
Maint.	30† Maint.	Mom.		
Maint.	31†† Maint.	Mom.		



28 and 29 operating actions should be used with Key Com-binations BA

# REPLACEMENT KEYS

One key per listing.

,		<u> </u>
Key Com- bination	Key Code	Catalog Listing
BA BB BD BE BS BT BV BW	110 109 107 106 117 118 119 120	30PA101-AML 30PA102-AML 30PA104-AML 30PA105-AML 30PA117-AML 30PA118-AML 30PA119-AML 30PA120-AML

Note: These keys fit the 5-bit keylocks in the Order Guide

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Specify different Key Combinations to acquire different keys, i.e.;

AML27ABK2AA21BB and

AML27ABK2AA21BE have different keys. AML27ABK2AA21BB and

AML27ABK3BC25BB have identical interchangeable keys.

Example: AML27ABK2AC28BB

Square housing; black bezel and button; .110 × .020 terminals; 2-pole double-throw; silver contacts; 3-position maintained and key

code "BB".

\* Key out in both positions.

Key out in all three positions
Key out in center and CW

† Key out in center and CCW positions. †† Key out in CCW only.

#### **CIRCUITRY**

#### 2-Position Switches:

2-Position Switches.				
	Normal Position*	Key Turned to Right (CW)		
1 Pole	3 2 1	3 2 1		
2 Pole	3 2 1	3 2 1		

#### 3-Position Switches (Available in 2-pole only.)

	Key Turned to Left (CCW)	Normal Position*	Key Turned to Right (CW)
2 Pole	3 2 1 6 5 4	3 2 1	3 2 1 6 5 4

Circuit remains the same with key in or out.