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Sensing and Control Interactive Catalog...

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Sensing and Control
Honeywell Inc.
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Freeport, IL 61032

www.honeywell.com/sensing

Manual Switches
Electronic Control Pushbutton

INCANDESCENT OR NON-LIGHTED DISPLAY

Buttons ordered separately.

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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.

AML21 ORDER GUIDE

AML21 B   B   A   2   AA

Housing Type	Bezel Color	Incandescent Lamp Type	Terminal Type	Circuitry Codes (Each pole has double-throw)	
Standard 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. AML21K Rect. Non-Lighted AML21L Rect. 1 Lamp Ckt. AML21M Rect. 2 Lamp Ckts.	**B** Black	**A** No Lamp Installed **B** 6 V Lamp* **C** 14 V Lamp* **E** 28 V Lamp*	**2** .110 × .020 (Solder or Quick-Connect) **3** .025 × .025 (Printed Ckt. or Push-On)	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 **EA** 1-Pole **EC** 2-Pole
					Alt. Action **EB** 1-Pole **ED** 2-Pole

* Lamps will be installed per each lamp circuit specified in the Housing Type.

Example: **AML21BBA2AA**
Square pushbutton switch housing non-lighted; black bezel; .110 × .020 termination; momentary action; 1-pole, double-throw; silver contacts.

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.
- LED circuit independent of switch circuit.

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

AML22 ORDER GUIDE

AML22 C   **B**   **B**   **2**   **AA**

Housing Type	Bezel Color	LED Color/ Voltage	Terminal Type	Circuitry Codes (Each pole has double-throw)	
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	**B** Black	**Red** **B** V* **C** 5V **D** 10V **E** 15V **F** 24V **Yellow** **H** V* **J** 5V **K** 10V **L** 15V **M** 24V **Green** **R** V* **S** 5V **T** 10V **W** 15V **X** 24V	**2** .110 × .020 (Solder or Quick-Connect) **3** .025 × .025 (Printed Ckt., or Push-On) **8** .110 × .020 With Diode Protection for LED	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 **EA** 1-Pole **EC** 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 × .020 termination; momentary action, 1-pole, double-throw; silver contacts.
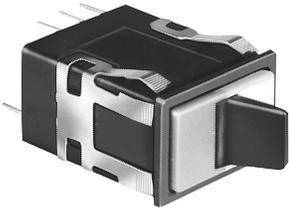
CONTACT ARRANGEMENT

1, 2 or 4 poles: Form C

Manuals

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.

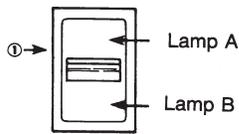|	
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*AML23 Series: 1 pole and 2-pole only.

*AML23 ORDER GUIDE

AML23 E   B   A   2   AA   01

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., or Push-on)		
AML23 G Rectangular 2 Lamp Ckts. (A & B)		**C** 14 V Lamp*			
		E 28 V Lamp*			

* Lamps will be installed per each lamp circuit specified in the Housing Type.

Lamp A

Lamp B

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).

CIRCUITRY

Silver Contacts	Gold Contacts	2-Position		3-Position			
AA	BA						
AC (Non-illuminated switches only)	BC						
CA	DA						
CC (Non-illuminated switches only)	DC						

OPERATING ACTION

2-Position:		
Maint.	**01** None	Maint.
Mom.	**02** None	Maint.
Maint.	**03** None	Mom.
3-Position:		
Maint.	**04** Maint.	Maint.
Mom.	**05** Maint.	Mom.
Maint.	**06** Maint.	Mom.
Mom.	**07** Maint.	Maint.

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 ORDER GUIDE

AML25 F	B	B	2	AA	01	R	X
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 **E** 15 V **F** 24 V	**2** .110 × .020 (Solder or Q-C) **3** .025 × .025 (Printed Ckt., or Push-On) **8** .110 × .020 w/Diode protection	Insert code letters as shown in Circuitry Chart LED version available only with **AA BA CA DA** circuitry	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

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

Example: **AML25FBB2AA01RX**
Rectangular paddle switch; illuminated with one red LED, this device has a black paddle and bezel, and .110 × .020 termi-nals; with one circuit ON and one circuit OFF in each extreme operator position (maintained).

NOTE: For further information on re-placement LED's, call the 800 number.
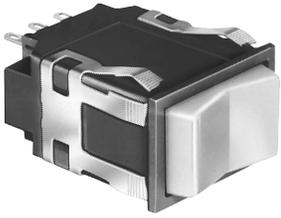

Covers ordered separately
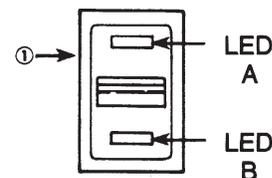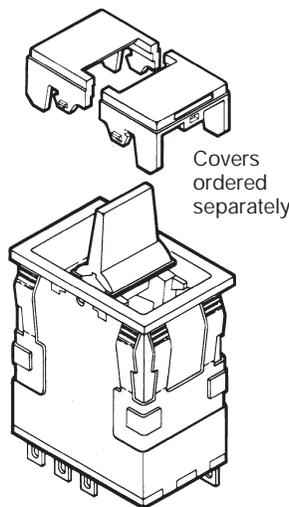
① The ''MICRO SWITCH'' identification is shown on this side of the switch housings.

Manuals

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.

Rocker operators ordered separately.

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

AML24 ORDER GUIDE

AML24 E — **B** — **A** — **2** — **AA** — **01**

Housing Type	Bezel Color	Incandescent Lamp Type	Terminal Type	Circuitry Codes	Operating Action
AML24 E Rectangular Non-Lighted	**B** 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
AML24 F Rectangular 1 Lamp Ckt. (A)		**B** 6 V Lamp*	**3** .025 × .025 (Printed Ckt., or Push-on)		
AML24 G Rectangular 2 Lamp Ckts.		**C** 14 V Lamp*			
		E 28 V Lamp*			

Lamp A
Lamp B

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

* Lamps will be installed per each lamp circuit specified in the Housing Type.

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).

CIRCUITRY

Silver Contacts	Gold Contacts	2-Position	3-Position				
AA	BA	3 2 1	3 2 1	3 2 1	3 2 1	3 2 1	① 3 2 1
AC (Non-illuminated switches only)	BC	3 2 1 6 5 4	3 2 1 6 5 4	3 2 1 6 5 4	3 2 1 6 5 4	3 2 1 6 5 4	6 3 5 2 4 1
CA	DA	3 2 1 6 5 4	3 2 1 6 5 4	3 2 1 6 5 4	3 2 1 6 5 4	3 2 1 6 5 4	6 5 4 3 2 1
CC (Non-illuminated switches only)	DC	3 2 1 6 5 4 9 8 7 12 11 10	3 2 1 6 5 4 9 8 7 12 11 10	3 2 1 6 5 4 9 8 7 12 11 10	3 2 1 6 5 4 9 8 7 12 11 10	3 2 1 6 5 4 9 8 7 12 11 10	12 6 11 5 10 4 9 3 8 2 7 1

OPERATING ACTION

2-Position:		
Maint.	**01** None	Maint.
Mom.	**02** None	Maint.
Maint.	**03** None	Mom.
3-Position:		
Maint.	**04** Maint.	Maint.
Mom.	**05** Maint.	Mom.
Maint.	**06** Maint.	Mom.
Mom.	**07** Maint.	Maint.

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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- 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.

AML26 ORDER GUIDE

AML26 F	B	B	2	AA	01	R	X
Housing Type	**Bezel Color**	**LED Voltage**	**Terminal Type/ Diode Protection**	**Circuitry Codes**	**Operating Action**	**LED Color (LED A)**	**LED Color (LED B)**
AML26 F 1 LED	**B** Black	**B** V*	**2** .110 × .020 (Solder or Quick-Connect)	Insert code letters as shown in Circuitry Chart	Insert code numbers from Operating Action Chart	**R** Red	**R** Red
AML26 G 2 LED's		**C** 5 V				**Y** Yellow	**Y** Yellow
		D 10 V	**3** .025 × .025 (Printed Ckt., or Push-On)	LED version available only with		**G** Green	**G** Green
		E 15 V		**AA**		**X** No LED	**X** No LED
		F 24 V	**8** .110 × .020 w/Diode for LED protection	**BA** **CA** **DA** circuitry			

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

Example: **AML26FBB2AA01RX**
Rectangular rocker switch; illuminated with one LED, this device has a black bezel, .110 × .020 terminals; with one circuit ON and one circuit OFF in each extreme operator position (maintained).

① → LED A
LED B

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

Rocker ordered separately
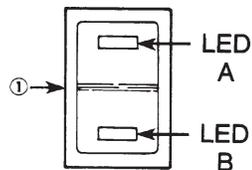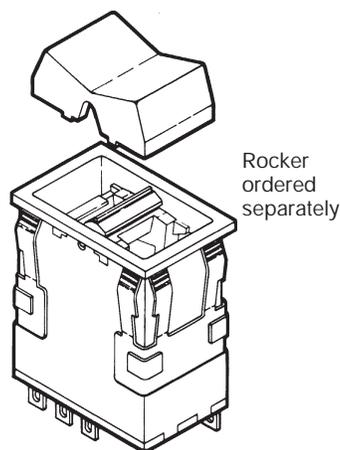
Manuals

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

AML27 A | **B** | **K** | **2** | **AA** | **21** | **BA**

Housing Type	Bezel Color	Button Color	Terminal Type	Circuitry Codes (Each pole has double-throw)	Operation Action (Key out in center position, except where noted)			Key ⚠ Combinations

Housing Type
AML27 A

Square housing

Non-Lighted

Bezel Color
B
Black

Button Color
K
Black

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	**21** Maint.	Maint.
None	**22*** Maint.	Maint.
None	**23** Maint.	Mom.
Maint.	**24** 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.

Key ⚠ Combinations
(Two Keys Furnished)

BA	**BS**
BB	**BT**
BD	**BV**
BE	**BW**

* Key out in both positions.
** Key out in all three positions.
*** Key out in center and CW positions.

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

28 and **29** operating actions should be used with Key Combinations BA and BB.

REPLACEMENT KEYS
One key per listing.

Key Combination	Key Code	Catalog Listing
BA	110	30PA101-AML
BB	109	30PA102-AML
BD	107	30PA104-AML
BE	106	30PA105-AML
BS	117	30PA117-AML
BT	118	30PA118-AML
BV	119	30PA119-AML
BW	120	30PA120-AML

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

⚠ Specify different Key Combinations to acquire different keys, i.e.; AML27ABK2AA21**BB** and AML27ABK2AA21**BE** have different keys. AML27ABK2AA21**BB** and AML27ABK3BC25**BB** 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''.

CIRCUITRY
2-Position Switches:

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

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 / 6 5 4	3 2 1 / 6 5 4

* Circuit remains the same with key in or out.