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This PDF catalog information was published in November 2000.



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Sensing and Control

Honeywell Inc. 11 West Spring Street Freeport, IL 61032

Lamps and LEDs — AML90 series	
AML91 incandescent wedge base T-1¾ lamps and AML92 T-1¾ LEDs 46	
Mounting dimensions47	

annunciators which complement AML's universal appeal.

Various controls can be matched with their functions to accommodate the most natural and efficient habit pattern reflex. Keylock operated switches can be used to assure "authorized personnel only" access.

Display flexibility. AML offers a choice of five legend sizes, four button heights, full or split section display, and illumination by incandescent lamps, LED's or neons. Colors are bright and uniform, providing a strong definition and good visibility. (Nonilluminated devices have the same attractive colors.)

Color display options include:

- Transmitted color color can be distinguished whether lamp is On or Off.
- Dead front display appears black, until illumination causes legend and color to appear.
- Projected color white display is diffused with color when illuminated.

effect technology to meet a wide range of position sensing and manual control needs.

Electronic control switches with gold or silver contacts, and 1, 2, or 4 poles, will handle up to 3 amps. Including an encoded version which generates different binary coded outputs merely by changing cam-keyed buttons.

Power duty switches meet line disconnect application needs with 10-amp pushbuttons and 15-amp paddle and rocker switches.

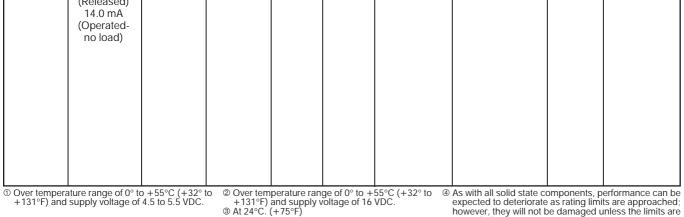
max., withdrawal force is 14 lbs. These receptacles are supplied by: AMP Inc., Berg, Augat, Hollingsworth, MALCO, Zierick, and others. Refer to Thomas Register or the Yellow Pages for the location of your local supplier.

- UL recognized, CSA certification. Selected listings are certified by VDE
 - and CE. (For compliance status, contact the 800 number.)



- Full-face illumination for high visibility lighted colors. Advanced illumination technology combines high-intensity LED in standard
- T-1-3/4 wedge base lamp package. • Easy plug-in installation in AML lighted switches and indicators.
- Low operating temperature permits high density, continuous operation with minimal heat build-up.

AML92 Series LEDs have a quad chip assembled in a T-1-3/4 wedge base lamp package. They provide full-face illumination when used with lighted pushbutton, rocker and paddle switches, or indicators equipped with incandescent lamp sockets. For ordering information, refer to page 46.



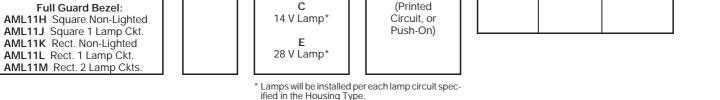
exceeded.

AML20 Series

Contacts	Voltage	Current	Load Type
Silver or Gold-plated Silver	250 VAC 125 VAC 24 VDC	2 Amps 3 Amps 2 Amps	75% Power Factor 75% Power Factor Resistive
Gold	125 VAC/DC	100 mA	Resistive

AML30 Series

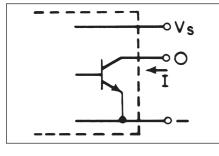
	Current		
Voltage	Pushbuttons	Rockers or Paddles	Load Type
125 VAC	10 amps	15 amps	60% power factor
250 VAC	10 amps	15 amps	60% power factor



Example: AML11BBA2EA

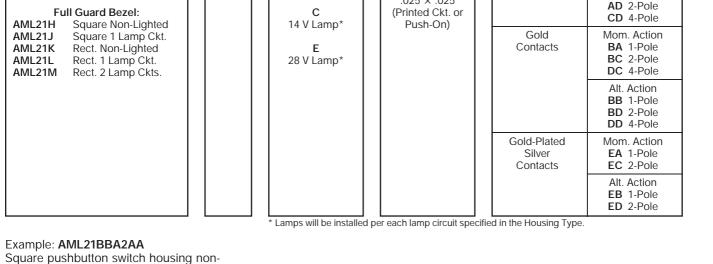
Square pushbutton switch housing, non-lighted; black bezel; .110 × .020 termination; momentary action; current sinking output for use with 4.5 volt supply.

CURRENT SINKING OUTPUT **AML10 SERIES**



A permanent magnet plunger moves adjacent to the Hall effect integrated circuit to give a digital, current sinking normally high output.

T 10 V W 15 V X 24 V



 $.025 \times .025$

6 V Lamp*

Alt. Action

AB 1-Pole

AML21G

lighted; black bezel; .110 × .020 termination; momentary action; 1-pole, doublethrow: silver contacts.

Rect. 2 Lamp Ckts.

Honeywell • Sensing and Control • 1-800-537-6945 USA • +1-815-235-6847 International • 1-800-737-3360 Canada

Alt. Action

BB 1-Pole

BD 2-Pole

DD 4-Pole

Mom. Action

EA 1-Pole EC 2-Pole

Alt. Action EB 1-Pole ED 2-Pole

Gold-Plated

Silver

Contacts

ENT
orm C

R

S

Χ

V*

5V

10V

15V

24V

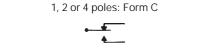
* See LED information for devices without current limiting resistor, page 46.

Protection

for LED

ver contacts.

Example: AML22CBB2AA

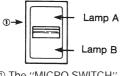


Square pushbutton switch housing with one LED, black bezel; red LED (without resistor); .110 \times .020 termination; momentary action, 1-pole, double-throw; sil-

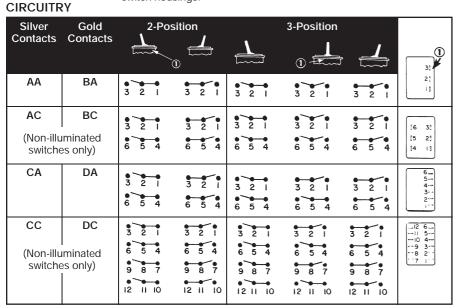
Downloaded from Arrow.com.

CONTACT ARRANGEME

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



15	V
F 24	

. 1 10 / .020 w/Diode protection

circuitry

BA

CA

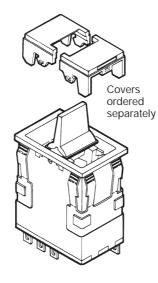
DA

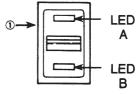
* See LED application information for devices without current-limiting resistor, page 46.

Example: AML25FBB2AA01RX

Rectangular paddle switch; illuminated with one red LED, this device has a black paddle and bezel, and .110 \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.



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

CIRCUITRY

Silver Contacts	Gold Contacts	2-Position		3-Position		3,
AA	ВА	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 5 4 6 5 4	3 2 1	3 2 1	16 30 05 20 04 10
CA	DA		2 1 3 2 1 5 4 6 5 4	3 2 1	3 2 1	6
	DC iminated es only)	3 2 1 3 2 6 5 4 6 5 9 8 7 9 8 12 11 10 12 1	5 4 6 5 4	3 2 1 6 5 4 9 8 7	3 2 I 6 5 4 9 8 7	

Example: AML24EBA2AA01

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

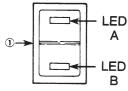
OPERATING ACTION

	1	
	2-Position:	
	01	
Maint.	None	Maint.
	02	
Mom.	None	Maint.
Maint.	03 None	Mom.
Mairit.		WOTT.
	3-Position:	ı
	04	
Maint.	Maint.	Maint.
Mom.	05 Maint.	Mom.
IVIUIII.	06	IVIOITI.
Maint.	Maint.	Mom.
	07	
Mom.	Maint.	Maint.

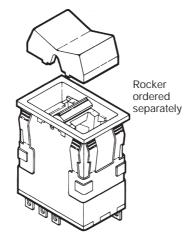
	F 24 V		.110 × .020 w/Diode for LED protection
--	------------------	--	---

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.



BA CA DA circuitry

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

One key per listing.				
Key Com- bination	Key Code	Catalog Listing		
BA BB BD BE BV BW	110 109 107 106 117 118 119 120	30PA101-AMI 30PA102-AMI 30PA104-AM 30PA105-AMI 30PA117-AMI 30PA118-AMI 30PA119-AMI 30PA120-AMI		

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

auire different keys, i.e.; AML27ABK2AA21BB and AML27ABK2AA21BE have different keys. AML27ABK2AA21BB and AML27ABK3BC25BB have identical interchangeable keys.

Specify different Key Combinations to ac-

Example: AML27ABK2AC28BB Square housing; black bezel and button; .110 × .020 terminals; 2-pole double-throw; silver

contacts; 3-position maintained and key code "BB".

Mom. Maint. Maint. 28*** Maint. Maint. Maint. 28 and 29 op-29† erating actions should be used Maint. Maint. Maint. with Key Com-30† binations BA and BB. Maint. Maint. Mom. 31††

Mom.

Maint. * Key out in both positions.

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

Maint.

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

CIRCUITRY

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

Key Turned Key to Left Normal Turned to Right (CW) (CCW) Position*

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

3 2 1 3 2 1 3 2 1 2 Pole 6 5 4 6 5 4

^{*} Circuit remains the same with key in or out.

28 V Lamp*

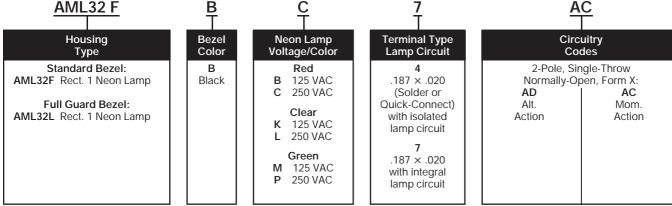
* Lamps will be installed per each lamp circuit specified in the Housing Type.

Example: AML31EBA4AC

Rectangular pushbutton switch housing, minals; momentary action; 2-pole, singlenon-lighted: black bezel: .187 × .020 terthrow, normally open, Form X.

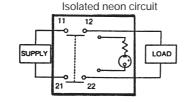
AML32 ORDER GUIDE

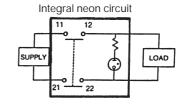
AML32 has neon lamp wired to 125 or 250 VAC resistor.

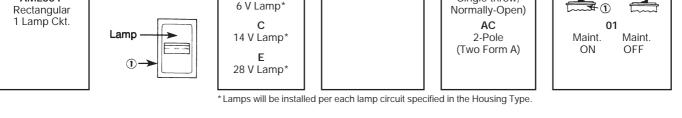


Example: AML32FBC7AC

Rectangular pushbutton switch housing; black bezel; 250 volt, red neon lamp; .187 × .020 terminals with integral lamp circuit; momentary action; 2-pole, singlethrow, normally open, Form X.

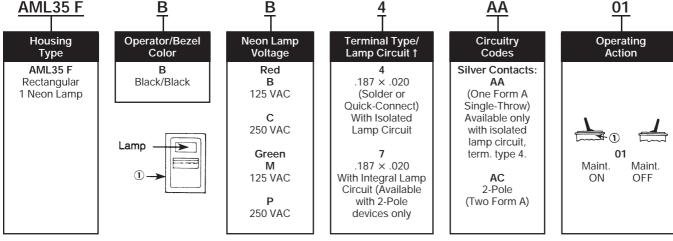






AML35 ORDER GUIDE

AML35 has neon lamp wired to 125 or 250 VAC resistor.



1 The "MICRO SWITCH" identification is shown on this side of the switch housing. Example: AML35FBB4AA01

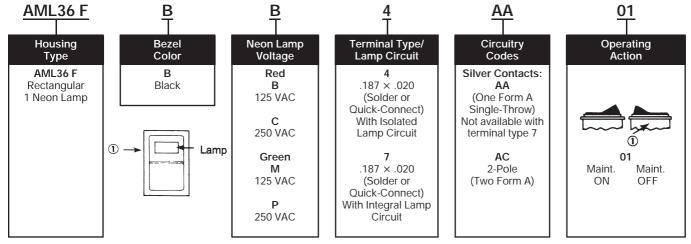
Rectangular paddle switch housing; black paddle and bezel; 125 VAC neon lamp; $.187 \times .020$ terminals with isolated

lamp circuit; 1-Pole Form A Single-Throw; with circuit ON in one extreme position and OFF in the other (maintained).

28 V Lamp*

AML36 ORDER GUIDE

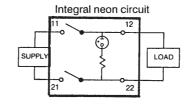
AML36 has neon lamp wired to 125 or 250 VAC resistor.

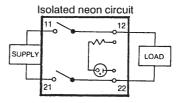


① The "MICRO SWITCH" identification is shown on this side of the switch housing.

Example: AML36FBB4AA01

Rectangular rocker switch housing; black bezel; 125 VAC neon lamp; .187 × .020 terminals with isolated lamp circuit; 1-Pole Form A single-throw; with circuit ON in one extreme position and OFF in the other.





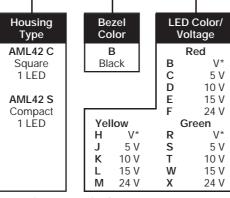
 $^{^{\}star}\text{Lamps}$ will be installed per each lamp circuit specified in the Housing Type.



AML42C (Use AML52-C/-A pushbuttons only. Page 31.)



AML42S



Example: AML42SBC2

Compact indicator with black bezel; 5 volt red LED; $.110 \times .020$ termination.

Terminal Type/ Diode Protection		
2	8	
.110 × .020	.110 × .020	
(Solder or Q.C.)	w/diode to	
	protect LED	
3	•	
$.025 \times .025$	9	
(Printed Circuit	$.025 \times .025$	
or Push-On)	w/diode to	
'	protect LED	

^{*} See LED application data, page 46, for these devices without current-limiting resistor.



AML45/59 solid state LED annunciators are a state-of-the-art advancement over traditional back-lighted legend displays which utilize incandescent lamps. The LED light source imparts the benefits of solid state long-life and reliability, with low power requirements. Operating life is measured by years, instead of hours.

The AML45 housing has two high efficiency LED's which illuminate color filters and film legends located in the snap-on AML59 cap assembly. There is a choice of full face one-color and split one-color or two-color displays. Color options are red, green, and yellow.

Film legends offer a choice of negative or positive formats. (Note: human factors engineers generally favor negative annunciator messages, reserving the positive format for use if special attention is necessary, such as "PAPER JAM.")

When unlighted, the legend is hidden (dead front).

NEGATIVE

When illuminated, colored legend appear 1001s against a black background.

NEGATIVE

POSITIVE

When illuminated, black legend appears against a colored background.

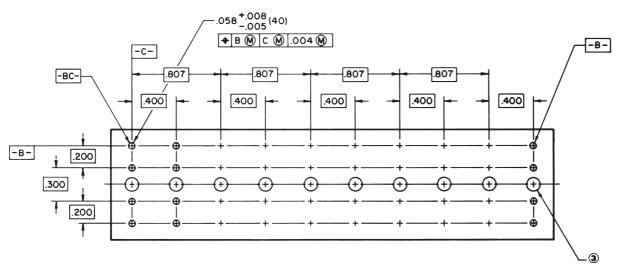
POSITIVE

This annunciator is totally compatible with other deivces in the MICRO SWITCH AML Advanced Manual Line both in front of, and behind the panel. Two of them fit in the same space as a rectangular AML indicators or switch. All terminals exit at AML's standard 1.7-inch depth for convenient, single-level wiring.

Type	Housing Bezel	Voltage*	Туре	Side 1	Side 2	
AML45 R	W	Α	2	R	R	
2 LED's	White	2.4 V	.110 × .020	Red	Red	
(For use with			(Solder or			
Full Screen)	K	В	Quick-Connect)	Y	Υ	
	Black	5 V		Yellow	Yellow	
AML45 S			3			
2 LED's		C	.025 × .025	G	G	
(For use with Split Screen)		10 V	(Printed Circuit)	Green	Green	
Split Screen)		D	8			
		15 V	.110 × .020			
			with diode protection			
		F	for LED's			
		24 V				

^{*} Current draw is 20 mA. "B", "C", "D" and "F" have built-in current limiting resistors.

Example: **AML45SWA2RY**Split screen type housing with white bezel,
2.4 V LED's, .110 × .020 termination, red
LED in Side 1 and yellow LED in Side 2.



③ .125" minimum diameter hole recommended to permit access to annunciator, allowing it to be driven out panel front should replacement become necessary.

and positive standard film legends in the type style (14-point Helvetica condensed bold) shown below. Use separate legend sheet for each AML59 catalog listing and attach it (them) to your purchase order. **ABCDEFGHIJKLMNOPQRST UVWXYZ &?!**():',.-/#% ½

Cap Cap Style Color AML59-R Κ Full Screen Black AML59-S Split Screen

Legend Type 10 No Legend 20 Negative Film Legend 21 Positive Film Legend

	Filter Color				
Full Screen	Split	Screen			
R	R	R			
Red	Red	Red			
Y	Y	Y			
Yellow	Yellow	Yellow			
G	G	G			
Green	Green	Green			

AML59-RK10R

Examples:

Full screen style, black cap, no legend, and red filter.

AML59-SK20RY

Split screen style, black cap, negative film legend, red and yellow color filters.

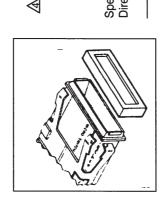
\$0123456789

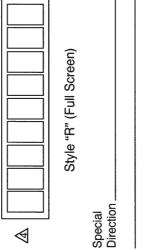
Approx. .165" -

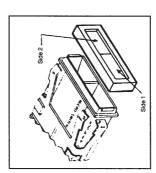
AML59 Legend Sheet

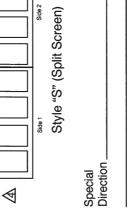
Account NO.

Use this form to describe film legends to be used with AML59 Series Cover Assemblies









NOTES:

- Legends must be designed to properly assemble to housings, which are to be installed with the MICRO SWITCH logo "up"
- All legends will be centered unless special directions are given. Standard legends are 14 pt. helvetica, condensed Bold. A thru Z and numerals 0 thru 9 are standard.
 - Legend Type:

- Type "20"

NEGATIVE

Posi

- Type "21"

AML51 LENS ORDER GUIDE (All possible color combinations may not be available.) For incandescent display AML41J, K, and L lens style indicators only.

AML51-J	<u>10</u>
Lens style	Display/Legend Type
	Transmitted Color 10 No legend 20 With legend
AML51-J	Transmitted Color (Clear cap and color insert) 11 No legend
AML51-K	Dead Front (Smoky gray cap and color insert) 30 No legend 40 With legend
≥.20	****Projected Color (White cap and color insert) 50 No legend 60 With legend

	Ť	
Full Color or 1st Color Split	2nd Color Split	3rd Color Split
R	R	R
Red	Red	Red
Y	Y	Y
Yellow	Yellow	Yellow
G	G	G
Green	Green	Green
B	B	B
Blue	Blue	Blue
W****	W****	W****
White	White	White
A**	A **	A**
Amber	Amber	Amber

R

AML51 lens buttons provide added display area by snapping onto and covering the bezel of AML41J, K, and L indicators. They do not fit other indicators or switch-

Example: AML51-J10R

Rectangular lens type button; full color; transmitted color, no legend; red.

HOW TO ORDER BUTTON LEGENDS

When specifying legended buttons, submit a legend order sheet to cover each listing. To insure proper legend orientation, AML housings (when viewed from the panel front) should have the "MICRO SWITCH" identification facing UP on square devices and UP or to the LEFT on rectangular.

Button legend order sheets are shown on the following pages. Reproduce them on your office copier.

Legend Sheet	Form No.
AML51 Pushbuttons	FO-63394
AML51 Lens buttons	FO-63395
AML52 Pushbuttons	FO-63504
AML53 Paddle switch covers	FO-63567
AML55 Paddle switch covers	FO-63565
AML54 Rockers	FO-63566
AML56 Rockers	FO-63564

30

AML51-L

^{**} Not available with projected color.

^{****} Insert is clear for projected color when "W" is used.

52/57 Pushbutton Legend Sheet/Product Specific Page_ & Neon Button for L.E.D. Account No AML

		5/16	-	-	0	0	-	-
	ers	9/64 13/64 5/16	က	က	0	0	က	က
	Max Characters	9/64	2	5	0	0	4	4
	Max C	7/64	ည	2	10	10	2	2
		5/64	7	7	12	12	7	7
UIDE								
RDER G		5/16	-	-	0	0	-	-
LEGEND ORDER GUIDE	es	9/64 13/64 5/16	-	1	0	0	-	-
TEG	Max Lines	9/64	+	1	0	0	-	-
	2	7/64	2	2	1	1	7	2
		2/64	က	3	1	1	က	က
	Figure	Q Q	_	7	3	4	w	9
	Type	tion	ပ	Ĵ	N	Z	A	A
	Button: Type	Orientation						
							•	

Standard Legend Placement

- Legend on outer shell (Button)
- Transmitted Color Legend on outer shell (Butte Figures 3 and 4 not applicable for AML57 listings

								_	EGEND	LEGEND ORDER CHART	
Customer	Fig	L	Typ	Type Size			Ink Color	ı	Button		Legend Desc
Part NO	9	2/64	7/64	9/64	13/64	5/16	NO 5/64 7/64 9/64 13/64 5/16 Black White	White	ģ	Sednence:	Left-to-Right of
										1st Line	2nd L
				Sheet	Prena	Sheet Prepared Bv.					
FO-63504-D					-				(Signature)	ature)	(Date)

AML Pushbutton Legend Sheet/Product Specification

5/16 Max Characters/Line 13/64 9/64 7/64 5 5/64 ∞ Page. TOTAL KOHINA **LEGEND ORDER GUIDE** 5/16 9/64 13/64 Max Lines/Area က 7/64 က ヰ 5/64 Figure Account NO 126 - 284 9 2 1 ∞ 0 ന 4 2 9 A*B P,R E,H* E,H* O ш Z, Σ L. Button: Type Orientation A38A

Use special legends sec. for other placements Standard Legend Placement Transmitted Color — Thru holes to snap into indicator housings **Definitions of Markings**

· Legend on outer shell (Button) Dead Front - Legend on Insert Internal reliefs to snap over

Transmitted color with clear cap legend on insert Projected Color - Legend on outer shell (Button) €, 4

switch plunger tabs

ĕ

LEGEND ORDER CHART		5/64 7/64 9/64 13/64 5/16 Black White ton H	Qty St Line 2nd Line	2	-	2	 2	2	2
	Size	9/64 13/64							
	Туре	/64 7/64							
	Fig	No							
	Customer	Part No							1

Legend D Sequence: Left-to-Right 5/16 0 က 0 Max Characters 13/64 က ന 4 **AML Lens Legend Sheet/Product Specification** 9/64 6 ဖ g (Signature) 10 9 က 7/64 LEGEND ORDER CHART 10 5 9 9 9 1st Line 5/64 4 4 8 0 6 LONG THE PARTY OF AAAA 2 က 0 0 2 က _ -_ αl က LEGEND ORDER GUIDE 5 But Oty Sheet Prepared By: Ink Color Black White 5/16 0 Transmitted Color — Legend on outer shell (Button) Page. 0 Projected Color - Legend on outer shell (Button) 13/64 S Max Lines N S က 9/64 5/16 က က က က က Type Size 7/64 9/64|3/64 7/64 က Dead Front - Legend on Insert က Standard Legend Placement 5/64 4 4 N 4 4 4 ന N 4 Figure 5/64 ž S က 4 2 9 S G Button: Type Y Y Account No Orientation က Customer Part No 2 1 2 FO-63395-E -ABRA ABEA | ABRA ABRA ABRA ABRA w



(Smoky gray cap and color insert) 30 No legend 40 With legend on insert ***Projected Color (White cap and color insert) 50 No legend 60 With legend on cap

Black I * Gray A** Amber

I * Gray A** Amber

Black

is used

*Not for lighted display.

**Not available with projected color.

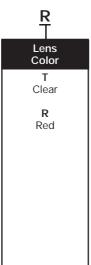
***Insert is clear for projected color when "W"

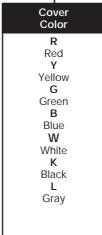
AML55 PADDLE SWITCH COVER ORDER GUIDE (All possible color combinations may not be available.)

For AML35 neon display.





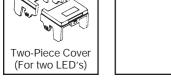




AMI 55-N covers have a colored lenticular lens window which extends over the neon lamp.

Example: AML55-N10RY

Full neon paddle switch cover; with transmitted color, no legend; red lens and yellow cover.



AML55-E, -T, and -H covers have an open window which allows LED's to be flush with the cover surface.

- * Notes:
- ¹ Only one color code letter is necessary for AML55-E 1/2 covers.
- ² To order a 1/2-cover without the LED "window," specify an AML53-E listing from the previous page.

Example: AML55-T10YR

Two-piece cover; with LED window in one side, transmitted color, no legend; yellow (LED side) and red (non-LED side).

(Date)

Signature)

FO-63567-F

AML Paddle Operator (Cover) Legend Sheet/Product S

Sequence: Left-to-Right or 5/16 Transmitted color with color with clear cap legend on insert. 2nd Line All legends will be centered within the legendable areas. **LEGEND ORDER CHART** Max Characters/Line 13/64 က Transmitted Color-Legend on outer shell (Button 9/64 Projected Color - Legend on outer shell (Button) Area 1 S 7/64 4 1st Line S S 5/64 Dead Front-Legend on insert COLUMN TO SERVICE SERV **LEGEND ORDER GUIDE** Button â Ink Color Black White 5/16 0 13/64 Max Lines/Area 9/64 5/16 2 2 2 Type Size 7/64 9/64 13/64 5 7/64 8 4. 3 2 2 5/64 Standard Legend Placement Use Special Legends Section 2 2 2 Figure Account NO 126 - 284 ž 5/64 S က for other placements. 를 왕 ш ш Button: Type Orientation Customer Part No ABRA — ABRA - ~

AML Paddle (Cover) Legend Sheet For LED and Neon

Account NO 126-284

					1	Opnaba	Order	انان					
Cover Type		Figure		Max	Max Lines/Area	'Area			2	ax Ch	Max Characters/Line	s/Line	
Orientation		No	5/64	7/64	9/64	13/64	5/16		2/64	7/64	9/64	13/64	5/16
	Ш	-	-	-	-	0	0		7	5	5	0	0
	ш	7	-	-	-	0	0		7	5	5	0	0
Side 1	Ŧ	က		-/-			0	1	7/7	5 5	5 5	00	0
Side 2	z	4	2	2	/21	1	1	Feb.	7	5	5	3	1
Side 1	_	5	1/2	1/2	1/2	0/1	0/	1	7	5	2 2	0/	0/
								5					
Standard Legend Placement - Use Special Legends Section for other placements.	gen	d Placer	nent -	- Use 9	special I	-egends	Section	for oth	er placer	nents.			
1. All Legends will be centered within the legendable areas	will	be cente	red with	in the le	gendab	leareas		END OF	LEGEND ORDER CHART	HART			
Customer	Fig		Type Size	ize		In Ari	Color	But		Area	a 1		
Part No	2	5/64 7	7/64 9/6	7/64 9/64 13/64	91/9	Black	a)	Of to	1st Line		Sequer 2nc	Sequence: Left-to-Righ 2nd Line	-to-Righ
										ı			
										}			
			-										
			\dashv	_									
FO-63565-C		(Signature)	nre)					(Date)			1		

NOTE: AMI 54-F10 and AMI 54-F20 are one-piece, one-color full rockers. Thus only one color code letter is necessary when ordering. Include a two letter code for all other AML54-E (and AML54-T) catalog listings.

*Not for lighted display.

** Not available with projected color or dead

*** Insert is clear for projected color when "W"

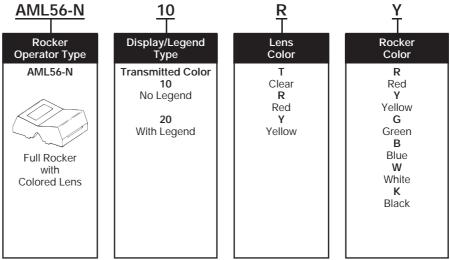
† Not available for use with AML34 power switches.

Example: AML54-F10R

Full rocker; with transmitted color, no legend; red.

AML56 ROCKER OPERATOR ORDER GUIDE

For AML36 neon display.



AML56-N rockers have a colored lenticular lens window which extends over the neon lamp.

Example: AML56-N10RY

Full rocker; with transmitted color, no legend; yellow rocker and red lens.



Example: AML56-T10RB Two-piece rocker; with LED window in

one side, transmitted color, no legend; red (LED side) and blue (non-LED side).

- ¹ Only one color code letter is necessary for AML56-E 1/2-rockers. AML56-E, -T, and -H rockers have an open window which allows LEDs to be flush with the rocker surface.
- ² To order a 1/2-rocker without the LED "window," specify an AML54-E listing from the previous page.

(Date)

(Signature)

FO-63566-F

AML Rocker Legend Sheet/Product Specification

5/16 0 13/64 Max Characters/Line က က 9/64 7/64 5/64 5 S S 늉 Legend Order Guide to all 5/16 Page_ 0 0 0 13/64 Max Lines/Area 9/64 7/64 5/64 S Figure 126-284 ဍ 4 2 3 ш **Button Type** Orientation Account NO AARA|ABRA |ABRA

0 0 0

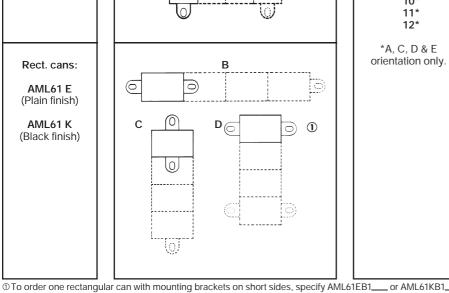
Transmitted Color-Legend on outer shell (Button Dead Front—Legend on insert Standard Legend Placement

- Use Special Legends Section lor other placements.
- ယ်.<u>4</u> က *NOT AVAILABLE WITH AML 34 SERIES

Transmitted color with clear cap legend on insert. Projected Color - Legend on outer shell (Button)

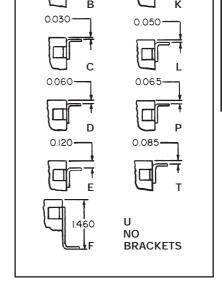
1	equence: Left-to-Right	2nd Line								
		1st Line								
B. F.	to	Q.								
٥	White									
Jak A	Black									
	5/16						,			
	13/64									
Sizio	9/64									l
15	7/64									
	2/64	-								
Fig	<u>"</u> 2									
Customer	Part No									
	Fig Type Size Ink Color But.	Fig	Fig	Fig	Fig	Fig Type Size Ink Color But- No 5/64 7/64 9/64 13/64 5/16 Black White ton 1st Line	Fig Type Size Ink Color But- No 5/64 7/64 9/64 13/64 5/16 Black White ton 1st Line	Fig Type Size Ink Color But- No 5/64 7/64 9/64 13/64 5/16 Black White ton 1st Line	Fig Type Size Ink Color Buthor Line Color Buthor Chart Size Ink Color Chart Size Ink Color Chart Size Ink Color Buthor Chart Size Ink Char	Fig Type Size ink Color But- No 5/64 7/64 9/64 13/64 5/16 Black White ton 1st Line

5/16 Sequence: Left-to-Right o 0 0 0 0 All legends will be centered within the legendable areas. 13/64 2nd Line Max Characters/Line က က က **AML** Rocker Legend Sheet/Product Specification က က (Date) 9/64 2 S S Area 1 S 2 7/64 S LEGEND ORDER CHART S 2 2 1st Line 5/64 1 ~ j Legend Order Guide C STEEL FEBRUAR . PAR P Q to But-5/16 0 Ink Color Black White Page_ Signature) 0 0 0 0 13/64 0 Max Lines/Area 0 0 0 9/64 5/16 Type Size 7/64 9/64 13/64 7/64 N 2/64 N N Standard Legend Placement Use Special Legends Section Figure 126-284 ž 5/64 4 2 3 2 for other placements. ig 8 Ш I \boldsymbol{z} Ш Button Type Orientation Account NO Customer Part No -0-88684-E JABRAMBRA MBRAMBRA





10



Example: AML61EC5A

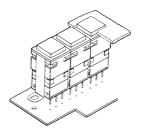
Rect. cans:

AML61 E (Plain finish)

AML61 K

(Black finish)

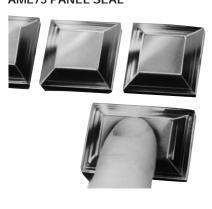
Five rectangular cans, plain finish (unpainted), long sides abutting; type A mounting brackets on long sides, located flush with switch or indicator bezel. (Type T bracket brings top of annunciator bezel flush with top of .160 in./4,1 mm panel.)



This strip has Type F brackets for P.C. board mounting.

NON-STANDARD ASSEMBLIES

Use the order form on the following page to specify non-standard AML61 strip or matrix assemblies. You may reproduce it on your office copier, or order pads from the 800 number. Request FO-63558.





MATERIAL Base: Polypropylene Cap: Polyvinyl Chloride

- AML75 panel seals fit pushbutton switches and indicators.
- Provides protection from contamination from accidental
- beverage spills, dust, and dirt.

 Easy to install, without tools
- Lasy to install, without too
- No effect on display color, light intensity, or legend quality.
- Replace seal or change lamps without removing switch from panel.
- For .19-inch standard height square or rectangular pushbuttons.
- Mounting dimensions page 53.

tional appearance, creating a pleasing framed effect around the button. It consists of a matte black plastic base which press-fits between the panel and switch bezel, and a transparent flexible seal which snaps into the base. PK 8521, shipped with each order, provides installation instructions.

THE DESIGN COMPLEMENTS AND 3 MINE-

Button colors and legends can be viewed without distortion whether lighted or unlighted. Seals can be conveniently replaced or removed for relamping, without removing the switch from panel.

Operating temperature range is 32° to 131°F (0° to 55°C).

AML75 PANEL SEAL ORDER GUIDE

		For Use With:	
Description	Square .19" high pushbuttons	Rectangular .19″ high pushbuttons	Rockers
Base & Seal	AML75ABC	AML75BBC	AML75RBC

Notes:

Multiple units should not be mounted in a single slot, since this would create an unsealed space between each unit. AML75 seals are not for use with barriers.

full guard bezels, AML61 mounting hardware, AML45 annunciators, or AML41J, K, or L lens type indicators.

See page 53 for mounting dimensions.

and is snipped with each order.

AML switch guards may be mounted in horizontal or vertical matrices. A wire lock-down feature, using .020-inch diameter locking wire, may be used as an additional protection.



This connector block can be used with square 1 and 2 pole AML21 and AML22 switches with .110 \times .020 terminals to enable plug-in wiring.

AML78 PANEL PLUGS





Plastic panel plugs (shown above) enable the user to provide for future needs by punching extra panel holes. Finished in matte black, they are the same height as the standard AML bezel when snapped in place from the panel front.

Panel plugs are only for use in individual holes or with AML61 mounting hardware in multi-station strips. (Use dummy housings in strip cutouts without AML61 mounting hardware.)

PANEL PLUG ORDER GUIDE

Plug Type	Catalog Listing
Square	AML78CB
Rectangular	AML78FB

AML78 DUMMY HOUSINGS

Dummy housings can be used to provide for expansion needs in strip cutouts without AML61 mounting hardware. They have mounting clips, but there is no provision for switching or illumination.

DUMMY HOUSING ORDER GUIDE

Dummy Housing Type*	Catalog Listing
Rectangular (Pushbutton style)	AML78F100
Rectangular (Lens indicator style)	AML78J100

^{*} Order AML51 Buttons/lenses for use with dummy housings.

AML45	2.4 V	20 mA
100,000 hours (hal	f life).	

Installed in

These Products

AML12, 15, 16,

22, 25, 26, 42

AML92 SERIES LEDS



For use with these AMI switches and in-

٧,

2.4 V

20 mA

dicators equipped with lamp sockets: Pushbutton switches: AML11 (Square

Only)*, AML21 (rectangular and square), and AML31. Paddle switches: AML31/23/33

Indicators: AML41

Rocker switches: AML14/24/34

w/o Diode

Protection

5 V

4 V

ER GUIDE	
Quad Chip	Six Chip
AML92ERY	AML92ERL
AML92EGY	AML92EGL
AML92EYY	AML92EYL
_	AML92EWL**
	Quad Chip AML92ERY AML92EGY

w/Diode

Protection

34 V

33 V

Quad Chip	Six Chip
AML92ERY	AML92ERL
AML92EGY	AML92EGL
AML92EYY	AML92EYL
_	AML92EWL**
	AML92ERY AML92EGY

OPERATING CHARACTERISTICS

	V _F Fwd. Voltage (typ.)			I _s Fwd.	۷ _۶ Rev.	
Туре	Yellow	Green	Red	White	Current	Voltage
Quad Chip	8.6	8.6	7.8	_	15 mA	16 V
Six Chip	4 V	4 V	4 V	4 V	50 mA	5.6 V

 V_{PD}

.7 V

.7 V

series resistance be used to drive LED devices. This minimizes the effect of temperature (current variation) on forward voltage of the LED. Resistor values can be determined by supply voltage or current for LED:

recommended that a minimum of 5 VDC

open circuit voltage with an appropriate

$$\frac{-V_{r}}{I_{r}} \qquad \begin{array}{c} R_{s} \\ V_{r} \end{array}$$

If a diode is added in series for reverse

polarity protection then:

$$R_s = \frac{E - V_f - V_{PD}}{I_f}$$

WHERE: VPD Forward Voltage of Protection Diode

TEMPERATURE RANGE (Quad Chip or Six Chip)

Operating: -20 to 60°C (-4 to 140°F) Storage: -30 to 100°C (-22 to 212°F)

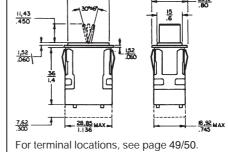
46 Honeywell • Sensing and Control • 1-800-537-6945 USA • +1-815-235-6847 International • 1-800-737-3360 Canada

^{*} Rectangular solid state with one or two lamp circuits cannot be used with LED catalog listings ending in



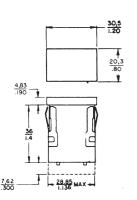
Incandescent Lamp Display 18,92 MAX

Non-Illuminated or

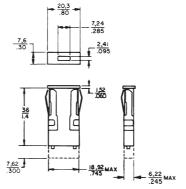


TERMINAL TYPES

AML41 INDICATOR LENS STYLE

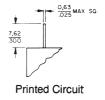


AML42 INDICATOR MINIATURE



7,62 .300

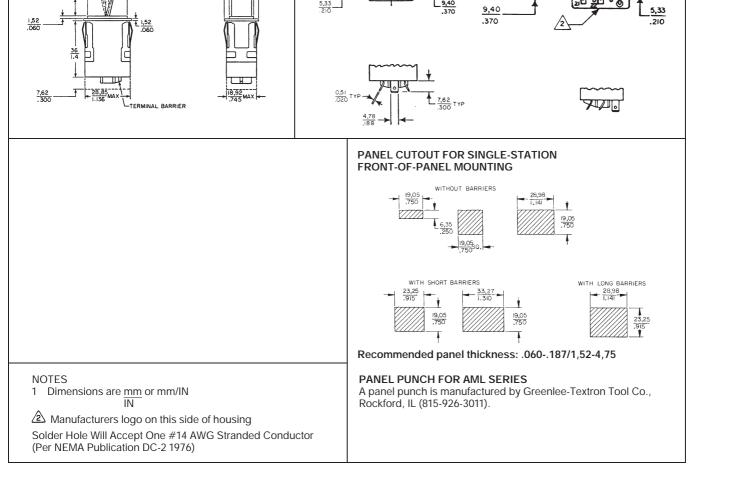
Solder or Quick Connect



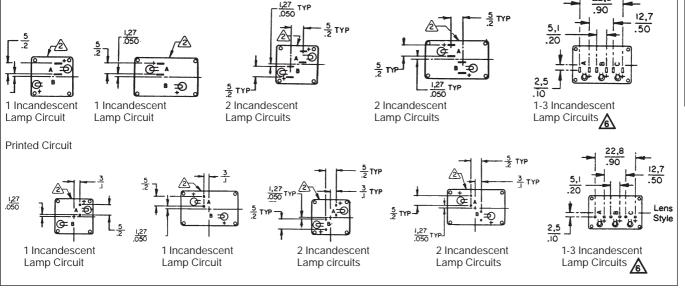
Solder Hole will accept two #22 AWG Stranded Conductor (per NEMA publication DC-2 1976)

NOTE 1 Dimensions are mm or mm/IN ĪN

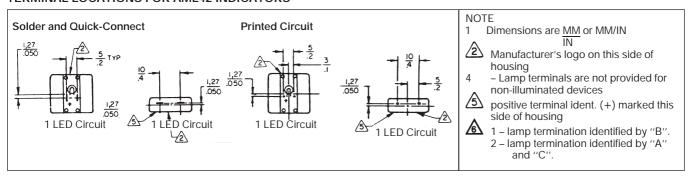
For terminal locations, see page 50.

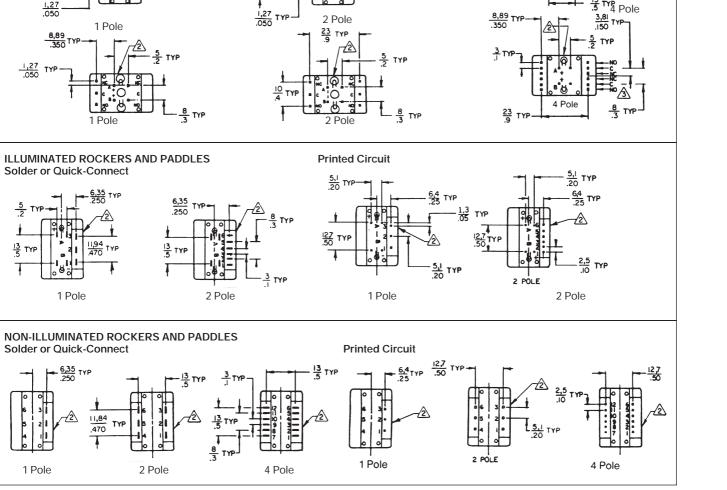


48 Honeywell ● Sensing and Control ● 1-800-537-6945 USA ● +1-815-235-6847 International ● 1-800-737-3360 Canada



TERMINAL LOCATIONS FOR AML42 INDICATORS





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(DO NOT CHAMFER EDGE)

For panel punch manufacturer, see page 48.

"D" or "E" ın. on C_L .807 1.614 2.421 3.228 4.035 4.842 5.649 6.456 1.263 8.070 8.877 on C_L 20,50 41,00 61,49 81,99 102,49 122,99 143,48 163,98 184,48 204,98 225,48 mm

Tolerance = $\pm .015$

