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Sensing and Control
Honeywell Inc.

11 West Spring Street Freeport, IL 61032

AML76 switch guards and AML78 panel plugs, dummy housing
Lamps and LEDs — AML90 series AML91 incandescent wedge base T-1¾ lamps and AML92 T-1¾ LEDs
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. (Non-illuminated 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**.

	no load)								
① Over tempera +131°F) and	o ② Over tem +131°F) ③ At 24°C.	and supply v	ge of 0° to + oltage of 16	VDC.	As with all solid state of expected to deteriorate however, they will not be exceeded.	as rating limit	ts are approached:		

AML20 Series

14.0 mA (Operated-

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

	Cur		
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

	C 14 V Lamp* E 28 V Lamp*		(Printed Circuit, or Push-On)
	 Lamps will be installed 	d per	each lamp circuit spec

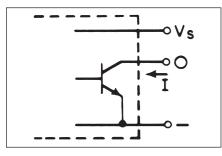
ified in the Housing Type.

Example: AML11BBA2EA

Full Guard Bezel:
AML11H Square Non-Lighted
AML11J Square 1 Lamp Ckt.
AML11K Rect. Non-Lighted
AML11L Rect. 1 Lamp Ckt.
AML11M Rect. 2 Lamp Ckts.

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

AML21G Rect. 2 Lamp Ckts. Full Guard Bezel: AML21H Square Non-Lighted AML21J Square 1 Lamp Ckt. AML21L Rect. 1 Lamp Ckt. AML21M Rect. 2 Lamp Ckts. AML21M Rect. 2 Lamp Ckts. * Lamps will be installed per each lamp circuit specified in Example: AML21BBA2AA
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. * Lamps will be installed per each lamp circuit specified.
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. * Lamps will be installed pe
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.
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.
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.
Full Guard Be AML21H Square No AML21J Square 1 L AML21K Rect. Non- AML21L Rect. 1 Lar AML21M Rect. 2 Lar
Fu AML21H AML21J AML21K AML21L AML21M

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

for LED

Gold-Plated
Silver
Contacts

Gold-Plated
Silver
Contacts

EA 1-Pole
EC 2-Pole
Alt. Action
EB 1-Pole
ED 2-Pole

g resistor, page 46.

Alt. Action

BB 1-Pole

BD 2-Pole

Protection

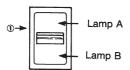
Example: AML22CBB2AA Square pushbutton switch housing with one LED, black bezel; red LED (without resistor); .110 × .020 termination; momentary action, 1-pole, double-throw; silver contacts.

CONTACT ARRANGEMENT

1, 2 or 4 poles: Form C

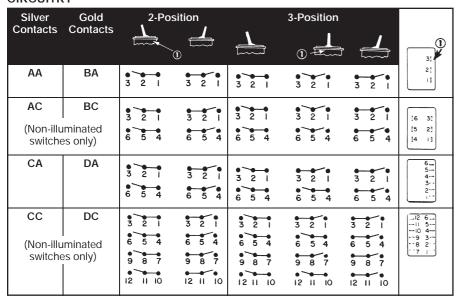
^{*} See LED information for devices without current limiting resistor, page 46.

* 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.

CIRCUITRY



Example: AML23EBA2AA01

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

OPERATING ACTION

	① L	
	2-Position:	
Maint.	01 None 02	Maint.
Mom.	None 03	Maint.
Maint.	None	Mom.
	3-Position:	
Maint.	04 Maint. 05	Maint.
Mom.	Maint. 06	Mom.
Maint.	Maint. 07	Mom.
Mom.	Maint.	Maint.

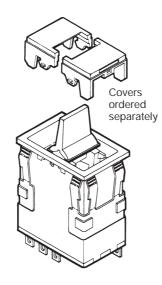
				F 24 V		w/Diode protection		BA CA DA circuitry							
*Cool FD and inching information for decidence without comment limiting and interest and 40															

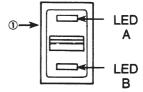
^{*} See LED application information for devices without current-limiting resistor, page 46.

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-Pos			3-Position	. 🚣	①
AA	ВА	3 2 1	3 2 1	3 2 1	3 2 1	3 2 1	30 2: 10
	BC iminated es only)	3 2 1 6 5 4	3 2 1	3 2 1	3 2 1	3 2 1	16 30 05 20 04 10
CA	DA	3 2 1 6 5 4	3 2 1	3 2 1	3 2 1	3 2 1	6
	DC iminated es only)	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 I 6 5 4 9 8 7	3 2 1 6 5 4 9 8 7	

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

	1	
	2-Position:	
	01	
Maint.	None	Maint.
	02	N A = 1 = 4
Mom.	None 03	Maint.
Maint.	None	Mom.
Wall It.	3-Position:	WOTT.
	3-P05III0II:	ı
	04	
Maint.	Maint.	Maint.
Mom.	05 Maint.	Mom.
IVIOITI.	06	IVIOITI.
Maint.	Maint.	Mom.
Widilit.	07	1410111.
Mom.	Maint.	Maint.

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

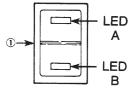
^{*} See LED application information for devices without current-limiting resistor, page 46.

BA CA

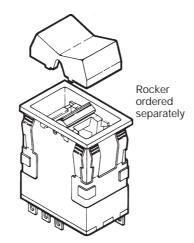
DA circuitry

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.



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

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
AML27ABK3BC25BB have identical inter-
changeable 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".

Mom.	Maint.	Maint.		
	28***			
Maint.	Maint.	Maint.		
Maint.	29† Maint.	Maint.		
Maint.	30† Maint.	Mom.		
31††				
Maint. Maint. Mom.				
* Key out in both positions.				

28 and 29 op-erating actions should be used with Key Com-binations BA and BB.

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

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.

^{**} Key out in all three positions.

*** Key out in center and CW positions.

E
28 V Lamp*

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

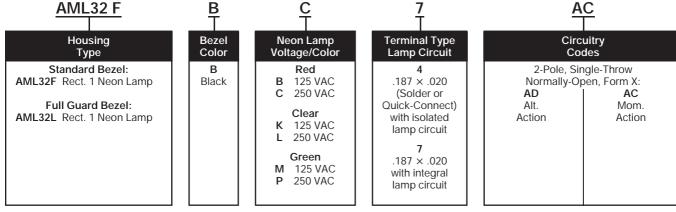
Example: AML31EBA4AC

Rectangular pushbutton switch housing, minals; momentary action; 2-pole, single-

non-lighted; black bezel; $.187 \times .020$ ter- throw, normally open, Form X.

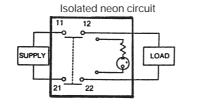
AML32 ORDER GUIDE

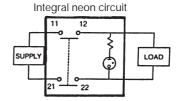
AML32 has neon lamp wired to 125 or 250 VAC resistor.

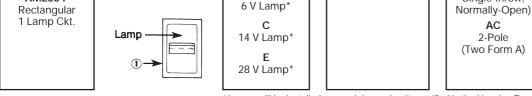


Example: AML32FBC7AC

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



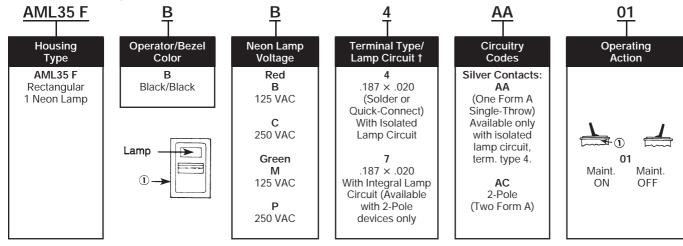




^{*}Lamps will be installed per each lamp circuit specified in the Housing Type.

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 × .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).

01

Maint.

ON

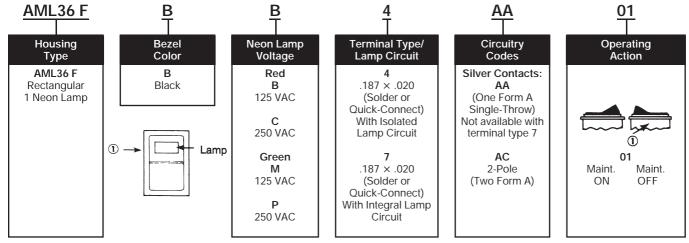
Maint.

OFF

28 V Lamp*

AML36 ORDER GUIDE

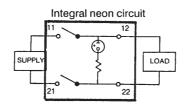
AML36 has neon lamp wired to 125 or 250 VAC resistor.

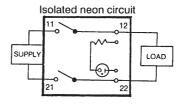


① The "MICRO SWITCH" identification is shown on this side of the switch housing.

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.





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



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



AML42S

	-		Color/ Itage
6	3	F	Red
Bla	ack	В	V,
		С	5 \
		D	10 ∖
		E	15 ∖
		F	24 \
Yel	low	Gı	reen
H	٧*	R	Λ,
J	5 V	S	5 \
K	10 V	T	10 \
L	15 V	W	15 \
M	24 V	Χ	24 \
	Yel H J K L	J 5 V K 10 V L 15 V	Color B Black B C D E F Yellow GI H V* R J 5 V S K 10 V T L 15 V W

Example: AML42SBC2

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

)

^{*} 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.

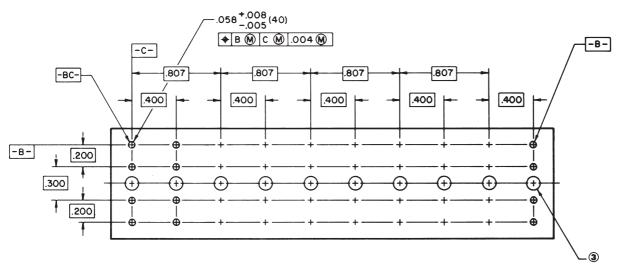
POSITIVE

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	ΙГ	Α		2	R	R	7
2 LED's	White		2.4 V		.110 × .020	Red	Red	
(For use with		lΙ			(Solder or			
Full Screen)	К	lΙ	В		Quick-Connect)	Υ	Υ	
	Black	lΙ	5 V			Yellow	Yellow	
AML45 S		lΙ			3			
2 LED's		lΙ	С		.025 × .025	G	G	
(For use with		lΙ	10 V		(Printed Circuit)	Green	Green	
Split Screen)		lΙ						
		lΙ	D		8			
		lΙ	15 V		.110 × .020			
		lΙ	_		with diode protection			
		lΙ	F		for LED's			
		lΙ	24 V					
		lΙ						
		1 I		l			1	1

^{*} 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 \times .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 \$0123456789 ____

Approx. .165" -

Cap Style
AML59-R Full Screen
AML59-S Split Screer

Cap Color
K Black

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			

Examples:

AML59-RK10R

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

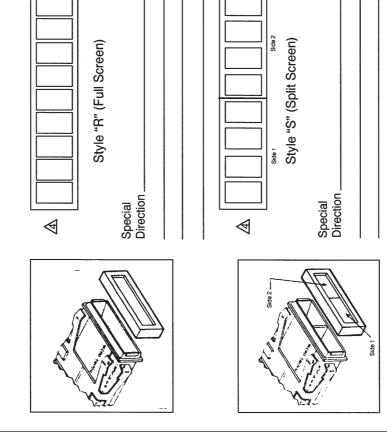
AML59-SK20RY

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

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

- Type "21"

Posi

Manuals

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
≥ 20	Transmitted Color 10 No legend 20 With legend
AML51-J	Transmitted Color (Clear cap and color insert) 11 No legend 21 With legend
AML51-K	Dead Front (Smoky gray cap and color insert) 30 No legend 40 With legend
≥ ₂₀	****Projected Colo (White cap and color insert) 50 No legend

60 With legend

	T	
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 switches.

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.

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

AML51-L

^{**} Not available with projected color.

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

52/57 Pushbutton Legend Sheet/Product Specific AML

& Neon Button for L.E.D.

Account No

Page_

				9	LEGEND ORDER GUIDE	RDER G	UDE					
Button: Type	Figure		2	Max Lines	es		-		Max C	Max Characters	ters	
Orientation	9	2/64	1/64	9/64	9/64 13/64 5/16	5/16	2/	2/64	7/64	9/64	7/64 9/64 13/64 5/16	5/16
S	1	က	2	-	-	-		7	5	5	က	-
ن ا	7	ဗ	2	-	-	-		7	5	5	က	-
N	3	1	1	0	0	0		12	9	0	0	0
Z	4	1	-	0	0	0		12	10	0	0	0
A	N	က	7	-	-	-	• •	7	5	4	3	-
A A	9	က	2	-	-	-		7	5	4	3	-

Standard Legend Placement

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

	Legend Des	Left-to-Right	2nd L						(Date)
LEGEND UNDER CHARI		Sequence:	1st Line						ure)
EGENDI	Button	ģ							(Signature)
3		Black White							
	Ink Color							Ş	
		NO 5/64 7/64 9/64 13/64 5/16						Sheet Prepared By:	
		13/64						Pren	
	Type Size	9/64						Sheel	
	Тyр	7/64							
		2/64							
	Fig	9							
	Customer	Part NO							FO-63504-D

AML Pushbutton Legend Sheet/Product Specification

of Page_ Account NO 126 - 284

	ne	4 5/16	2 1 *1		0	5,	2 -1	8	-7	0	10
	rs/Li	13/64	3,2	32	0	5,5	3,2	5,5	32	0/	3
	haracte	9/64	5,	53	5 3	8 7*7	5,	. 8	5 3	8 7	0 9
	Max Characters/Line	7/64	5,4	5 4	5 4	8*8	5*4	9 8	5 4	9 8	0 9
		5/64	7,5	7 5	7 5	11/10	7,5	11/0	7 5	11/	8 0
IDE			LONING!	·							
LEGEND ORDER GUIDE		5/16	1 41	1-	00	1*1	2,42	1/	22	00	-0
ND OR	/Area	9/64 13/64	241	2,1	0 0	2,1	3,43	2.1	33	$\frac{0}{0}$	20
LEGE	Max Lines/Area	9/64	3,2	32	1/	3,2	4*4	32	4 4	1-	30
	Max	7/64	3,2	32	1-	3,2	4*4	32	4 4	1-	40
		5/64	4,3	4/8	- -	4,8	9,40	4	9	- /-	50
	Figure	9	-	7	က	4	5	9	7	ω	6
	lype	uo	A*B P,R	ပ	۵	E,H*	E,H	Щ	ц.	N,	Σ
	Button: Type	Orientation	ABRA —	A3RA ———————————————————————————————————	ABRA 2 2 1	A <u>∃</u> RA	АЭЯА —	A3RA	A3RA	A3RA	ABRA

Definitions of Markings	Standard Legend Placement –
Thru holes to snap into	Use special legends sec. for other placements
indicator housings	1. Transmitted Color — Legend on outer shell (Button)
Internal reliefs to span over	2. Dead Front - Legend on Insert
ewitch plugger tabe	3. Projected Color - Legend on outer shell (Button)
switch planger tabs	4. Transmitted color with clear cap legend on insert

			స్ —										
ER CHART			2nd Line										
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	But-	tou	ğ										
	olor	5/64 7/64 9/64 13/64 5/16 Black White ton E											
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	Fig	ટ											
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AML Lens Legend Sheet/Product Specification

Max Characters 13/64 က 4 9/64 ဖ 9 7/64 0 9 9 5/64 4 4 8 8 6 LEGEND ORDER GUIDE 5/16 0 Page. 0 13/64 S Max Lines S 9/64 က က က က 7/64 5/64 4 4 4 4 N 4 ന Figure ž S က 4 2 9 Button: Type Y Y Account No Orientation က 2 1 2 -ABRA ABRA ABRA ABRA ABRA ABRA

5/16

Standard Legend Placement

- Transmitted Color Legend on outer shell (Button)
 - 2. Dead Front Legend on Insert

Projected Color - Legend on outer shell (Button)

								=	EGEN	0	LEGEND ORDER CHART	
	Customer	Fig	Typ	e Siz	e l		Ink	olor	But	¥.		Legend D
	Part No	2	7/64	9/64	13/64	5/16	5/64 7/64 9/6413/64 5/16 Black White ton C	White	to t	∃BF		Sequence: Left-to-Right
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_	1000							i L	·		(Signature)	ure)

0



(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

Black I * Gray A** Amber

- *Not for lighted display.

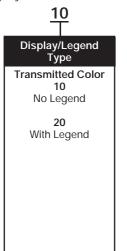
 **Not available with projected color.

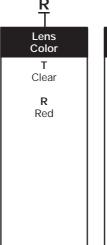
 ***Insert is clear for projected color when "W" is used

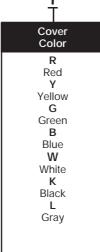
AML55 PADDLE SWITCH COVER ORDER GUIDE (All possible color combinations may not be available.)

For AML35 neon display.









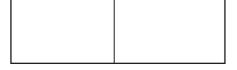
AMI 55-N covers have a colored lenticular lens window which extends over the neon lamp.

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 d 1st Line S 5/64 Dead Front-Legend on insert COLUMN TO SERVICE SERV But-**LEGEND ORDER GUIDE** ton ĝ 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. 7. 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

		5/16	0	0	0	1	0/			
	s/Line	9/64 13/64	0	0	00	/3	0/			
	aracter	9/64	5	5	5 5	/5	5 5			
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Legend Order Guide	Area	9/64 13/64	0	0	0	/-	0			
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		7/64	-	-		2	1/2			
		5/64	-	-		2	1/2			
	Figure	No	-	2	က	4	5			
	Cover Type	Orientation	u I	J	Side 1	Side 2	Side 1			
			<u> </u>	L	10,0	<u> </u>	0,00		·	

Standard Legend Placement - Use Special Legends Section for other placements.

1. All Legends will be centered within the legendable areas

		$oxed{}$	<u>5</u>		 		\perp		
		Area 1	Sequence: Left-to-Righ						
	LEGEND ORDER CHART		1st Line						
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arca		Ink	Black						
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T III A CI		Fig	S S						
1. All Legellus Will be cellieled Willill the legelluable aleas		Customer	Part No					FO-63565-C	

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"

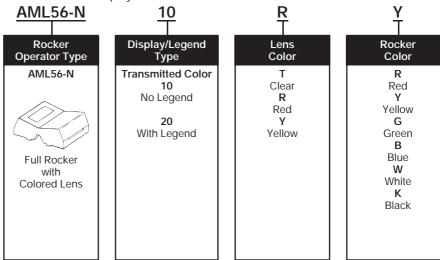
† Not available for use with AML34 power switches.

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).

- * Notes:
- 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 Page_

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0 0

5/16 0 Sequence: Left-to-Right c 0 2nd Line 13/64 Max Characters/Line All legends will be centered within the legendable areas. က က က 9/64 Transmitted Color-Legend on outer shell (Button Transmitted color with clear cap legend on insert. Area 1 Projected Color - Legend on outer shell (Button) 5 S 7/64 LEGEND ORDER CHART 1st Line 5/64 5 S 5 Dead Front—Legend on insert Legend Order Guide for the same of th But-ton Oty 5/16 0 0 0 0 Ink Color Black | White 13/64 Black Max Lines/Area 9/64 Type Size 7/64 9/64 13/64 5/16 N 7/64 S ķ မ်း 14. က 5/64 S Standard Legend Placement Use Special Legends Section Figure 126-284 ဍ 5/64 4 *NOT AVAILABLE WITH AML 34 SERIES 2 3 for other placements. E S ш Button Type Orientation Account NO Customer Part No ABRA AARA|ABRA |ABRA

AML Rocker Legend Sheet/Product Specification

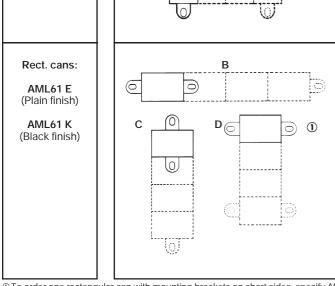
j

Page_

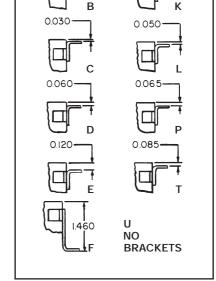
126-284

Account NO

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 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 ~ Legend Order Guide C STEEL E ELECTION OF THE PERSON OF TH PAR P Q to But-5/16 0 Ink Color Black White 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 ž 5/64 4 2 3 2 for other placements. ig 8 Ш I \boldsymbol{z} Ш Button Type Orientation Customer Part No -0-88684-E ABRAMBRA MENAMBRA



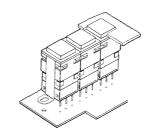




 $@ To order one rectangular can with mounting brackets on short sides, specify AML61EB1 \underline{\hspace{1cm}} or AML61KB1 \underline{\hspace{1cm}}$

Example: AML61EC5A

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
- 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.

maintenance-tree life

AML76 switch guard protects square and rectangular .19-inch standard height pushbuttons from inadvertent actuation. It is for use with standard bezel type switches only.

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.

Installed in These Products	V _f	\mathbf{I}_{f}	V_{PD}	w/o Diode Protection	w/Diode Protection		
AML12, 15, 16, 22, 25, 26, 42	2.4 V	20 mA	.7 V	5 V	34 V		
AML45	2.4 V	20 mA	.7 V	4 V	33 V		
(1.15)							

100,000 hours (half life).

AML92 SERIES LEDs



For use with these AML switches and indicators equipped with lamp sockets: **Pushbutton switches:** AML11 (Square Only)*, AML21 (rectangular and square),

and AML31.

Paddle switches: AML31/23/33 Rocker switches: AML14/24/34

Indicators: AML41

Storage: -30 to 100°C (-22 to 212°F)

AML92 ORDER GUIDE

AIVIL72 ORDER GOIDE							
LED Color	Quad Chip	Six Chip					
Red	AML92ERY	AML92ERL					
Green	AML92EGY	AML92EGL					
Yellow	AML92EYY	AML92EYL					
White	_	AML92EWL**					

^{**} For use with white or yellow buttons.

OPERATING CHARACTERISTICS

	V _F Fwd. Vo	oltage (typ.)	. I₅ Fwd.	V _p 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

TEMPERATURE RANGE
(Quad Chip or Six Chip)
Operating: -20 to 60°C (-4 to 140°F)

recommended that a minimum of 5 VDC open circuit voltage with an appropriate 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:

$$R_{s} = \frac{E - V_{f}}{I_{f}}$$

$$E = \frac{\overline{F}}{I_{f}}$$

$$V_{f} = V_{f}$$

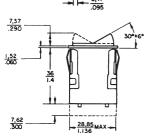
WHERE: R_s = Series Resistance E = Supply Voltage V_f = Forward Voltage of LED I_f = Circuit Current

If a diode is added in series for reverse polarity protection then:

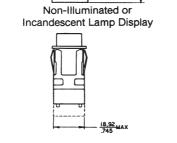
$$R_{s} = \frac{E - V_{f} - V_{PD}}{I_{f}}$$

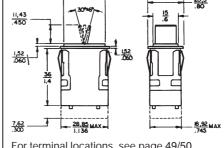
WHERE: V_{PD} Forward Voltage of Protection Diode

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



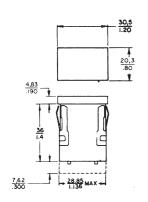
For terminal locations, see page 49/50.





For terminal locations, see page 49/50.

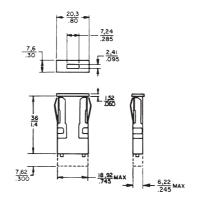
AML41 INDICATOR LENS STYLE



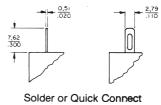
NOTE 1 Dimensions are mm or mm/IN ĪN

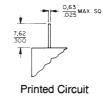
For terminal locations, see page 50.

AML42 INDICATOR MINIATURE

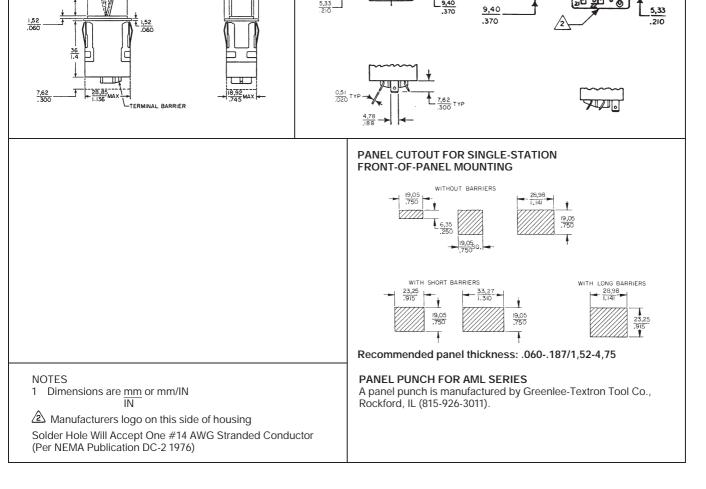


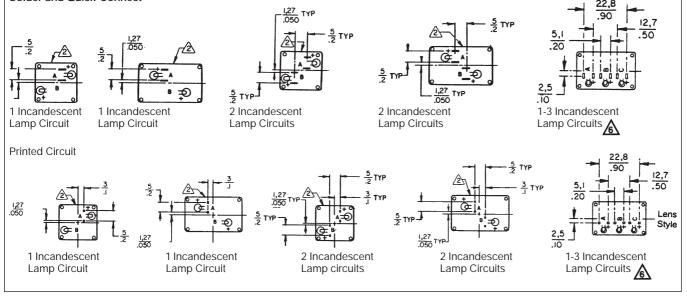
TERMINAL TYPES



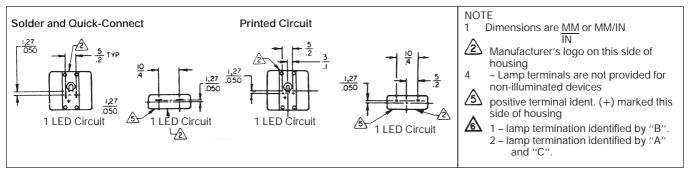


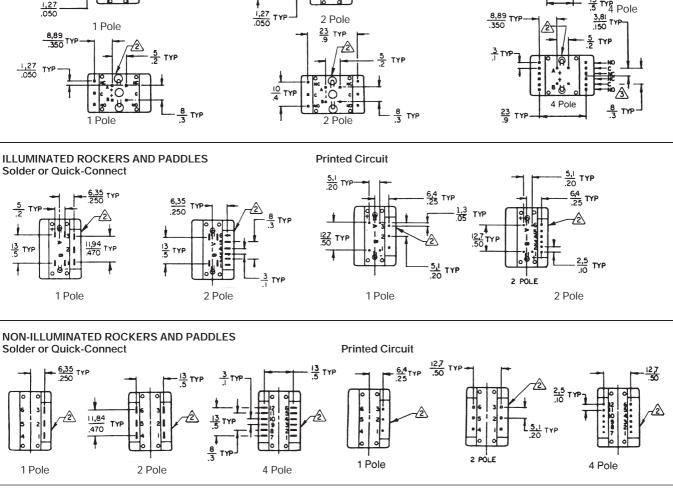
Solder Hole will accept two #22 AWG Stranded Conductor (per NEMA publication DC-2 1976)





TERMINAL LOCATIONS FOR AML42 INDICATORS





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

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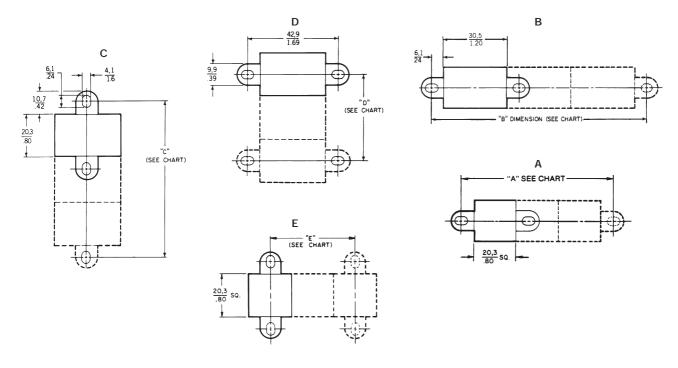
Manufacturer's logo on this side of housing

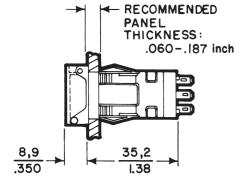
(DO NOT CHAMFER EDGE)

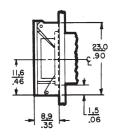
For panel punch manufacturer, see page 48.

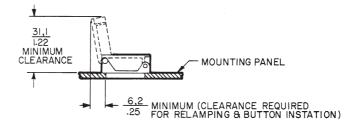
D" or "E"	in. mm	on C _L	.807 20,50	1.614 41,00	2.421 61,49	3.228 81,99	4.035 102,49	4.842 122,99	5.649 143,48	6.456 163,98	7.263 184,48	8.070 204,98	8.877 225,48	
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Tolerance = $\pm .015$

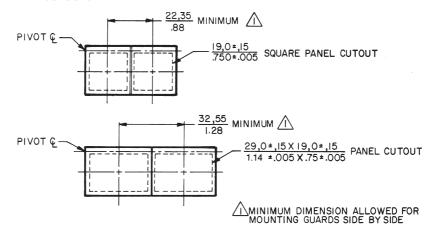








PANEL CUTOUTS



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Pushbutton Switches category:

Click to view products by Honeywell manufacturer:

Other Similar products are found below:

LW1L-M1C10V-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M7E-HRN2 67021K512 67081K512X 701PB580 719-5504-000

MDPSSGLFS 810KSV30B FLT 2U EE 01A MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL

8646ABUL FSDWH 9001KXRK 9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL

ABD122N-B 1211390004 ABN111-Y ABN400-R 1211500044 1211580012 1212MRA 1232A6NF RA3CSH6A 1241.1183.7047

1241.2511 1241.3428 1223A2ULCSA 1223MRA 1232AX2119 1241.1183.8000 1241.1183.8029 1241.2506 1241.2606 12MA6

1301940184 RELBARF6X10(PLASTIC)