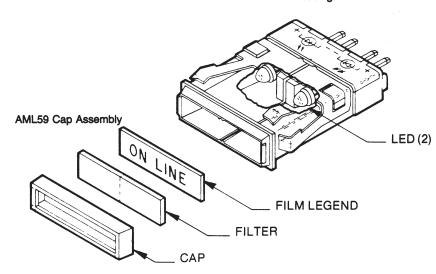
Manual Switches

Solid State LED Annunciators





AML45 Housing



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).

FEATURES

- Messages are backlighted with LED's for long, reliable operating life.
 Reduces service and maintenance costs.
- Low voltage and current (without inrush), enables direct drive with integrated circuits. Reduces cost of interface components (and installation), and power supply.
- Low operating temperature allows high-density, continuous operation. Minimal heat build-up.
- Inherently rugged. Resists effects of shock and vibration (no filaments to break).
- High density message display.
 Illuminates up to four legend sectors in color, in a 0.8 × 1.2 inch area.
- Dead front hides legends until illuminated. Non-glare display with no flickering.
- UL recognized.

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.

Manual Switches

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AML45 LED HOUSINGS

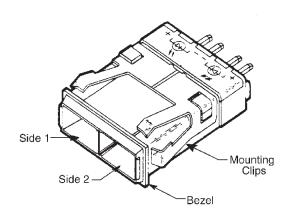
LEDs should be specified as the same color if a full or split screen one-color display is desired (RR = red); or different colors for a split screen two-color display (RY = red/yellow). (Baffle plate inside housing prevents light spillage from one LED color section to the other on split screen versions.)

LED colors should match filter colors specified in AML59 cap assembly (see page 40).

Spring clips on sides of the housing hold units securely in panel. For mounting strips of two or more units, AML61 mounting hardware may be used (see page 55).

LED APPLICATION INFORMATION

Refer to page 59.



PANEL ORIENTATION

Drawing (above) indicates Side 1 and Side 2 LED locations, with MICRO SWITCH identifications facing UP. Consider this orientation when ordering an AML45S housing with two different LED colors, such as RG (red/Side 1, green/ Side 2). Since LED's are permanently installed, color location is specially important to note when the device is to be terminated in a printed circuit board.

AML	.45	OR	DER	GU	IDE
-----	-----	----	-----	----	-----

AML45 S
Housing Type
AML45 R 2 LED's (For use with Full Screen)
AML45 S 2 LED's (For use with Split Screen)

<u>w</u>
Color of Housing Bezel
W White
K Black

A

Tern Ty	
.110 > (Solo Quick-C	< .020 ler or
.025 > (Printed	< .025
.110 > with diode for L	< .020 protection

LED (Color
Side 1	Side 2
R	R
Red	Red
Y	Y
Yellow	Yellow
G	G
Green	Green

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.

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

Manual Switches

Solid State Annunciators

SUBPANEL MOUNTING



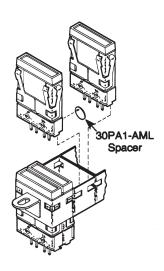
Order AML45/59 annunciators and AML61 mounting hardware separately.

AML61 mounting hardware may be used for mounting strips of two or more annunciators in pairs in a single cutout. This method is most cost-effective for multiunit application, since it generally takes less time to make one large hole to accept several units than it does to make a hole for each individual unit. Also, if the front panel is not required for mounting support, it can be made thinner, and easier to cut out, minimizing installed cost.

AML61 strips are factory assembled with metal cans welded together, and mounting brackets welded to the end cans. Refer to page 45 for ordering information.

INSTALLATION

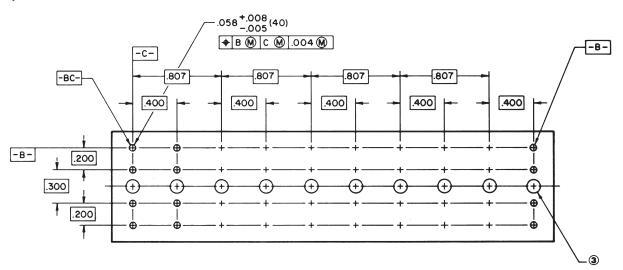
Each rectangular AML61 mounting can will accommodate two annunciators, as shown in the drawing. Panel appearance is enhanced if a spacer .05 in./1,3 mm thick (approx.) is installed between the housings at the terminal end. Specify Catalog Listing 30PA1-AML for a package of 10 spacers.



Mounting centers and panel cutout dimensions are shown on page 64. An installation instruction sheet PK8520 is shipped with each order.

PRINTED CIRCUIT BOARD DIMENSIONS

Suggested printed circuit board layout for up to ten AML45 units assembled in an AML61 assembly:



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

Maual Switches

Solid State LED Annunciators

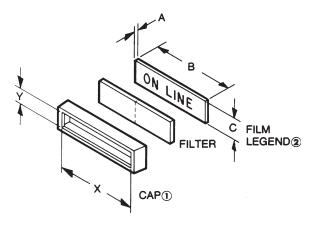
AML59 CAP ASSEMBLIES

The cap assembly consists of: black cap, color filter(s), and optional film legend; furnished unassembled. It snaps onto housing, flush with the housing bezel.

Filters, assembled with their matte finish facing the LED's, efficiently diffuse the illumination. They are color-tinted to complement the red, yellow, and green LED's.

NOTE: Cap assembly should not be subjected to the temperature and chemical atmosphere associated with wave soldering. These parts should be installed after soldering and cleanup.

Catalog listings for AML59 cap assemblies are derived from the ordering guide below. The ordering guide for AML45 LED housings is on page 38.



CUSTOM LEGENDS

A 2:1 drawing in black ink is required for satisfactory reproduction of custom film legends. As an alternative, you may submit an office copy of a page from a typographic supplier catalog such as Chartpak, Letraset, and Zipatone. MICRO SWITCH can also furnish graphic legends from the "Henry Dreyfus Symbol Source Book." (Custom legends require a one-time start-up charge.)

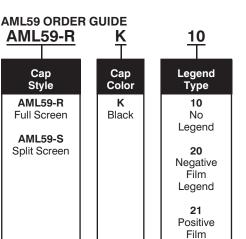
- ① Viewing area inside cap: X = 1.04 min.; Y = .272 min.
- ② Customers ordering film legends from commercial photographic or typesetting sources should specify that the film be precision cut, per the following dimensions, to insure proper retention and alignment on the face of the annunciator: A = .007 max.; B = 1.1 ± .010; C = .300 ± .003.

STANDARD LEGENDS

AML59 Legend Sheet (see page 42) provides ordering information for negative 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"----



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.

Honeywell

AML59 Legend Sheet

Account NO

Use this form to describe film legends to be used with AML59

sə,	▼	Style "R" (Full Screer	Special Direction	
Series Cover Assemblies				>

P.O. No. A Line No Line No Schedule No. Customer I	Catalog Listing & AML59 –	Quantity Ordered 🔬
Customer Part No.		Line No
		Customer Dwg. No.

(city) Address:_

Customer:

(state)

INSTRUCTIONS:

Style "S" (Split Screen)

Direction Special

- Please use black ink to fill in shaded areas.
- Fill in appropriate catalog listing. One listing per sheet. Fill in quantity ordered and your order no. **⋖** €
- Indicate legends desired do not exceed 9 characters for style "R" or 4 characters on either side of style "S".
- This completed form must accompany your purchase order 5

- Type "21" NEGATIVE

Standard legends are 14 pt. helvetica, condensed - Bold. A thru Z and numerals

- Type "20"

0 thru 9 are standard. Legend Type:

All legends will be centered unless special directions are given.

installed with the MICRO SWITCH logo "up".

Legends must be designed to properly assemble to housings, which are to be

POSITIVE

Manuals



Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

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Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России, а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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С нами вы становитесь еще успешнее!

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