Manual Switches Lamps, Soldering Recommendations, Receptacles

AML91 Series

AML91 LAMP ORDER GUIDE

Lamp Type	Industry Lamp No.	Voltage	Catalog Listing
Incandescent	86	6.3	AML91LA86
T-1-3/4	73	14.0	AML91LA73
wedge base	85	28.0	AML91LA85

LAMP DATA

The following data was compiled from manufacturer's specifications, for reference only.

INCANDESCENT LAMPS

Industry Lamp No.	Volts	Amps	Watts	MSCP	Life A/C Volts
86	6.3	.200	1.25	.49	20,000 hours
	5.5	.185	1.12	.246	106,200 hours
	5.0	.177	.89	.185	290,000 hours
73	14.0	.080	1.12	.30	15,000 hours
	12.0	.077	1.00	.23	36,450 hours
85	28.0	.04	1.12	.30	7,000 hours
	24.0	.037	.89	.177	41,860 hours

Neon Lamps

25,000 hours (half life)

INTEGRAL LEDs

LEDs Furnished Permanently				Peak Inverse Voltage	
Installed in These Products	V,	I,	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

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

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

OPERATING CHARACTERISTICS

V _F Fwd. Voltage (typ.)			I₌ Fwd.	V _R 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) Storage: -30 to 100°C (-22 to 212°F)

AML92 ORDER GUIDE

LED Color	Quad Chip	Six Chip
Red	AML92ERY	AML92ERL
Green	AML92EGY	AML92EGL
Yellow	AML92EYY	AML92EYL
White	—	AML92EWL**

** For use with white or yellow buttons.

SOLDERING RECOMMENDATIONS

All terminals are solder plated. Proper soldering and cleaning procedures must be followed to maintain the reliability of AML products during installation. An instruction sheet which outlines these procedures is included with AML shipments. You may also obtain a copy from your MICRO SWITCH Sales Office. Request PK 8518.

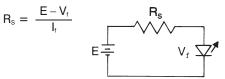
As a general guide, the following information may be used:

Use a 280°C (538°F) solder iron tip, up to 6 seconds duration, with a 60-40 rosin core solder. This allows the terminal to heat quickly on the exterior of the housing only, and greatly reduces the chance of flux migrating inside the housing.

LED APPLICATION INFORMATION

For those devices without internal current limiting resistors, suitable external control of the LED current must be provided. It is 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:



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:

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

WHERE: V_{PD} Forward Voltage of Protection Diode

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