SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss200163.com

Interactive Catalog Supplements Catalog PDFs

If you need detailed product information, or help choosing the right product for your application, see our <u>Interactive Catalog</u>. Use the <u>Interactive Catalog</u> to access the most complete and up-to-date information available.

The Interactive Catalog provides an extensive collection of product specifications, application data, and technical literature that can be searched based on criteria you select.

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Sensing and Control
Honeywell Inc.
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Manual Switches TAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-AM:2010 Series

Lamps, Soldering Recommendations, Receptacles

AML91 LAMP ORDER GUIDE

Lamp Type	Industry Lamp No.	Voltage	Catalog Listing
Incandescent T-1-3/4 wedge base	86	6.3	AML91LA86
	73	14.0	AML91LA73
	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	$V_{\rm f}$	\mathbf{I}_{f}	$V_{\scriptscriptstyle PD}$	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".

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.

OPERATING CHARACTERISTICS

V _F Fwd. Voltage (typ.)				I₅ 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

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:

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

$$E = \frac{V_{f}}{I_{f}}$$

$$V_{f} = \frac{V_{f}}{I_{f}}$$

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: 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)