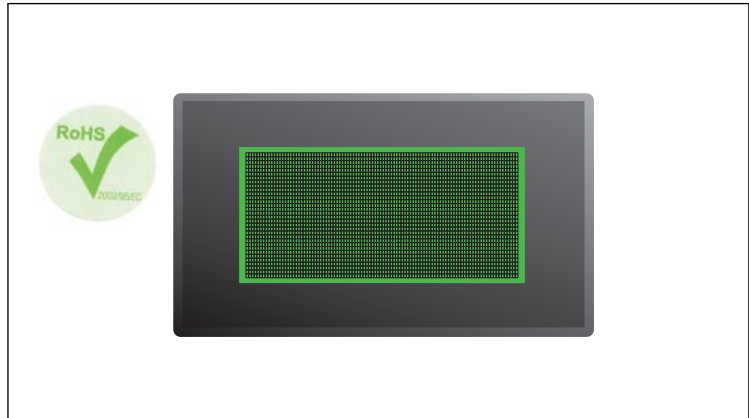


The DMX 973B incorporates the latest LCD controller LSI to provide a unique combination of a 100 x 32 pixel display with compact size and ease of use. LED backlighting ensures excellent visibility under low light conditions. Easy to install, the module features 16-pin dual in line connector. Supplied with bezel, window and clips. An optional metal bezel, stock number BEZ 900-IP, provides protection to IP67/NEMA 4X.

FEATURES

- 100 x 32 Pixels
- High Contrast Supertwist LCD
- 6 o'clock Viewing Direction
- Yellow-Green LED Backlighting
- Based on Epson SED 1530 Controller
- 68XX, 80XX and Serial Interfaces



For detailed programming data, consult the DMX 973B product page at www.lascarelectronics.com and download the SED 1530 technical Datasheet.

ORDERING INFORMATION

Standard Instrument
IP67 / NEMA 4X Bezel

Stock Number
DMX 973B
BEZ 900-IP

Consult the Lascar website for the latest **FREE** software components and application ideas. Alternatively, ask Lascar to write your software or program your modules with your code.

www.lascarelectronics.com or www.mdm1.info

ELECTRICAL SPECIFICATIONS

Specification	Min.	Typ.	Max.	Unit
Supply Voltage (V+)	4.5	5.0	5.5	V d.c.
Supply Current	Normal	100		µA
	Standby	10		
Input Voltage High	0.7V _{DD}	-	V _{DD}	V
Input Voltage Low	V _{SS}	-	0.3V _{DD}	V
Output Voltage High	0.8V _{DD}	-	V _{DD}	V
Output Voltage Low	V _{SS}	-	0.2V _{DD}	V
Backlight Supply Voltage	-	5	5.5	V d.c.
Backlight Supply Current	-	50	90	mA
Operating temperature range	0		50	°C

SAFETY

To comply with the Low Voltage Directive (LVD 93/68/EEC), input voltages to the module's pins must not exceed 60Vdc. The user must ensure that the incorporation of the panel instrument into the user's equipment conforms to the relevant sections of BS EN 61010 (Safety Requirements for Electrical Equipment for Measuring, Control and Laboratory Use).

LASCAR ELECTRONICS LTD.
MODULE HOUSE
WHITEPARISH
WILTSHIRE SP5 2SJ
UK
TEL: +44 (1794) 884567
FAX: +44 (1794) 884616
E-mail: sales@lascar.co.uk

LASCAR ELECTRONICS INC.
4258 West 12th Street
Erie
PA 16505
USA
TEL: +1 (814) 835 0621
FAX: +1 (814) 838 8141
E-mail: sales@lascarelectronics.com

LASCAR ELECTRONICS (HK) LIMITED
UNIT NOS. 6-8, 19/F FUTURA PLAZA,
111-113 HOW MING STREET,
KWUN TONG, KOWLOON,
HONG KONG
TEL: +852 2389 6502
FAX: +852 2389 6535
E-mail: purchasing@lascar.com.hk

Specifications liable to change without prior warning

DMX 973B

Issue 4

October/2009

S.C.

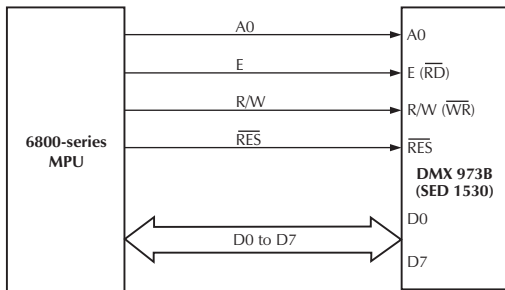
Applies to DMX 973B/1

PIN FUNCTIONS

1.	0V	} Power supply to the dot matrix display.
2.	+5V	
3.	\overline{RES}	
4.	A0	Control Data /Display Data flag input. (0=Control Data, 1=Display Data)
5.	R/ \overline{W}	
	(\overline{WR})	Write enable signal in 8080-series mode.
6.	E	Enable clock signal in 6800-series mode.
	(\overline{RD})	Read enable signal in 8080-series mode.
7-14.	D0-D7	8-Bit bi-directional microprocessor data bus. (D7= SI, D6=SCL in serial mode)
15.	BL-	Power supply to the LED backlighting, electrically isolated from pins 1 and 2.
16.	BL+	

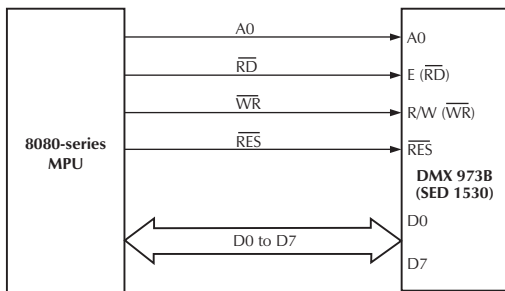
REFERENCE APPLICATIONS

Interface with 6800 Series



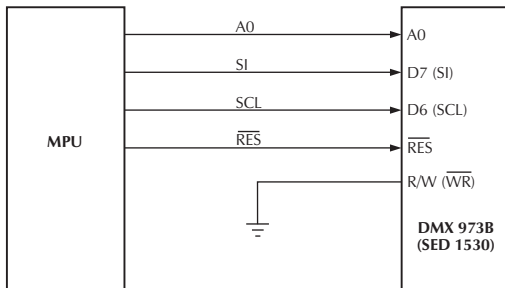
Ensure solder link Ser is Open and solder link 80xx is Open. (factory default condition)

Interface with 8080 Series



Ensure solder link Ser is Open (factory default condition) and solder link 80xx is Closed.

Serial Interface



Ensure solder link Ser is Closed. Solder link 80xx may be Open or Closed. Fix R/W (\overline{WR}) to GND.

RECOMMENDED INITIALISATION PROCEDURE

