



[DITEL](#): [PRODUCTS](#): [DIGITAL STARS](#): **8359XY04**



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## DESCRIPTION

Model 835 panel indicators are slave displays with four separate BCD parallel input lines per digit. The transfer to display of data contained in the data bus is controlled by a latch/strobe line common to all digits. The unit allows selection of "0" or "1" true logic for the latch/strobe line as well as for the digits by means of internal solder jumpers.

As shipped from the factory the instrument is set to negative logic for the latch/strobe line and to positive logic for the digits.

These indicators can also be configured as remote displays to series 8000 DITEL instruments with BCD output in either positive or negative logic. In such a case, the 835 performs de most significant digit decodification.

Power and signal connections are made via a 25-pin AMPEDGE connector located at the rear of the unit.

## SELECTION GUIDE

| <b>8359</b>              | <b>X</b> | <b>Y</b> | <b>0</b> | <b>4</b> |
|--------------------------|----------|----------|----------|----------|
| <b>INPUT</b>             |          |          |          |          |
| 5V TTL logic (-)         | 0        |          |          |          |
| 5V TTL logic (+)         | 6        |          |          |          |
| 24V logic (-)            | 7        |          |          |          |
| 24V logic (+)            | 8        |          |          |          |
| <b>POWER SUPPLY</b>      |          |          |          |          |
| 115V 50/60Hz             |          | 1        |          |          |
| 230V 50/60Hz             |          | 2        |          |          |
| 12V DC ISOLATED          |          | 4        |          |          |
| 24V 50/60Hz              |          | 7        |          |          |
| 24V DC ISOLATED          |          | 8        |          |          |
| <b>SILKSCREENED UNIT</b> |          |          |          |          |

## ORDERING EXAMPLE

**8359 8204 E00**: BCD parallel indicator S800  
 Power: 230V AC (50/60Hz)  
 Input: 24Vdc (+) No units  
 Format: 96x48mm 4 digits

## SPECIFICATIONS

### INPUT SIGNAL

- Data format 4 bits/digit, code 8.4.2.1.
- Input type TTL/5V CMOS compatible and 24V DC
- Voltage levels

Positive logic Logic 1 > 3V DC  
 Logic 0 < 2V DC

Negative logic Logic 1 < 2V DC  
 Logic 0 > 3V DC

- Latch/strobe and decimal point

Positive logic Transfers > 1Vdc

Negative logic Transfers < 0.5Vdc

- Common mode max. voltage (signal/power)

AC Voltage 1000V DC or 1500V ACpp

DC Volatge  $\pm 400V$  DC

### POWER

- Supply voltages

AC (50/60Hz) 24, 115, 230V AC

DC (isolated) 12, 24V DC

- Maximum isolation

1000V DC or 1500V ACpp

- Consumption

4W nominal

### DISPLAY

- Type red LED (0.56") 14 mm. high
- Decimal point 3, selectable at connector
- Polarity negative sign

- Data memory latch

- Decoding from 0 to 9

(other values cause the display blanked)

### ENVIROMENTAL

- Operating temperature

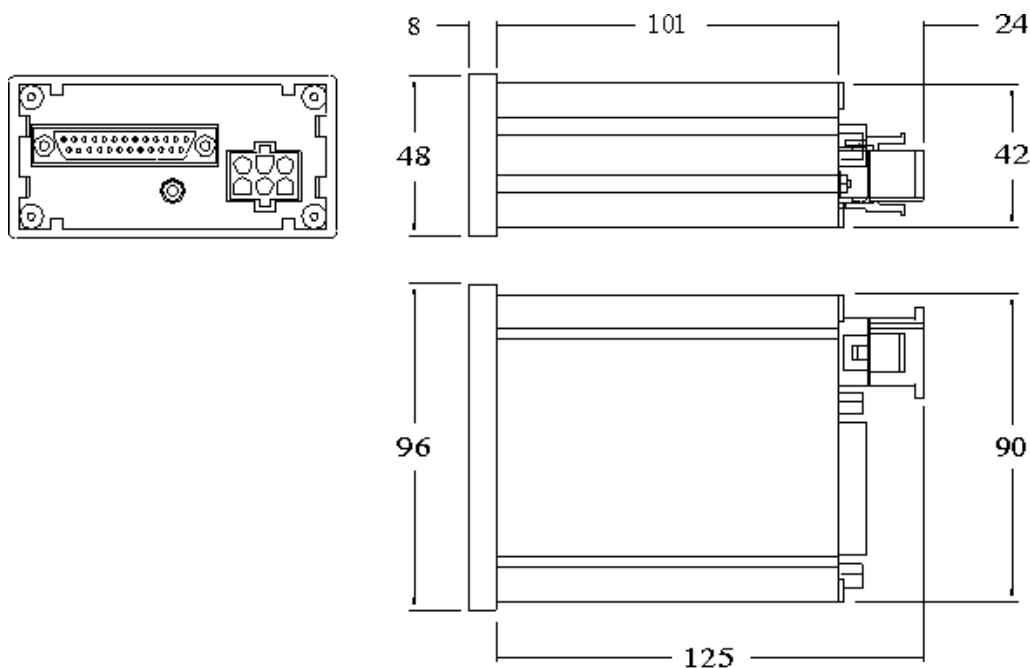
0°C to 50°C

- Storage temperature

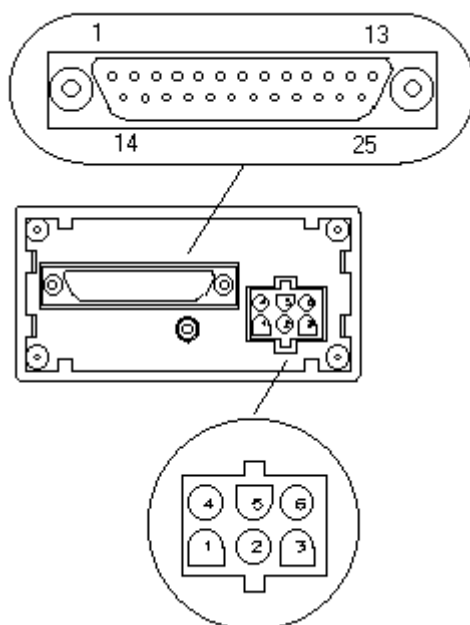
-25°C to +85°C

- Relative humidity max. 95% (non condensing)
- Weight 300g
- Dimensions 72x36x110mm. (s/DIN 43700)
- Case material 94 V-0 UL-rated polycarbonate

## DIMENSIONS (mm)



## SIGNAL AND POWER CONNECTION



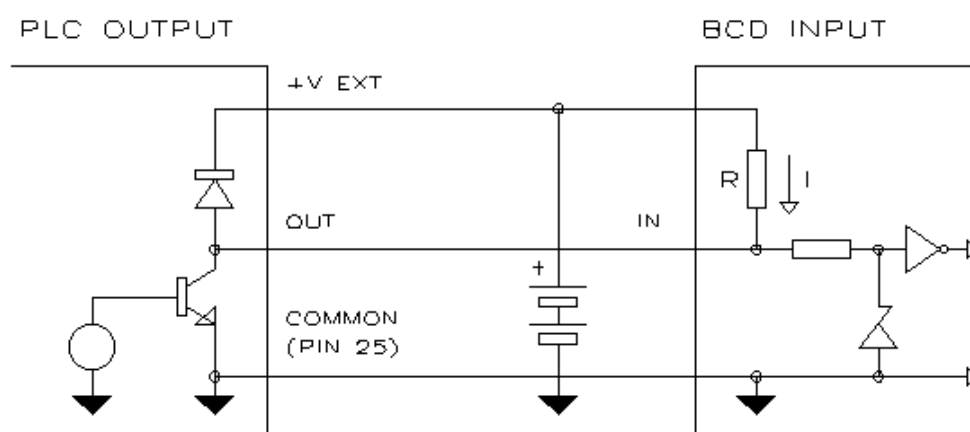
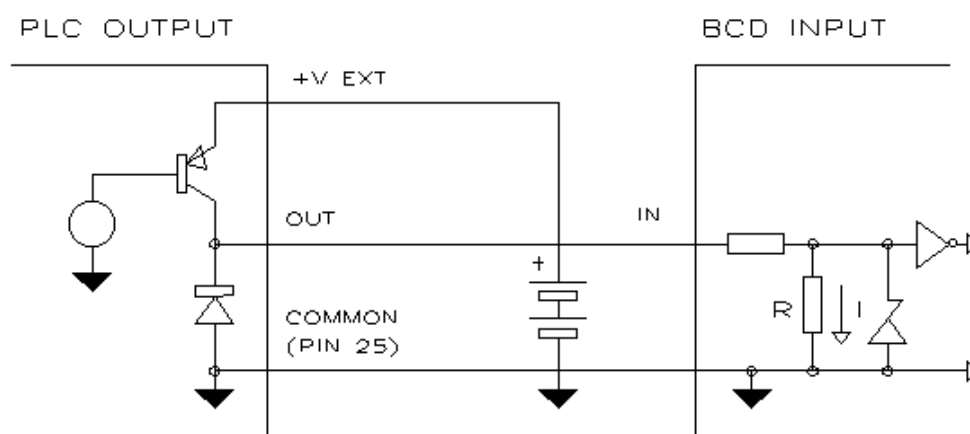
Input signal  
 PIN 1 - 1(D0)  
 PIN 2 - 2(D0)  
 PIN 3 - 4(D0)  
 PIN 4 - 8(D0)

PIN 5 - Sign  
PIN 6 - 1(D1)  
PIN 7 - 2(D1)  
PIN 8 - 4(D1)  
PIN 9 - 8(D1)  
PIN 10- DP (D1)  
PIN 11- Spare  
PIN 12- (+) pull-up  
PIN 13- Spare  
PIN 14- 1(D2)  
PIN 15- 2(D2)  
PIN 16- 4(D2)  
PIN 17- 8(D2)  
PIN 18- DP (D2)  
PIN 19- 1(D3)  
PIN 20- 2(D3)  
PIN 21- 4(D3)  
PIN 22- 8(D3)  
PIN 23- DP (D3)  
PIN 24- Latch  
PIN 25- GND (common)

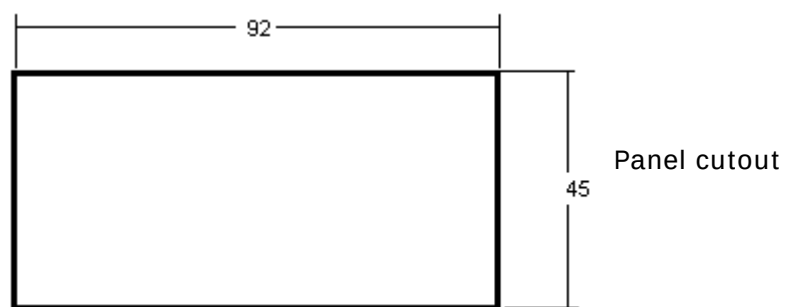
AC supply power  
PIN 4 AC HI  
PIN 6 AC LO (neutral)

DC supply power  
PIN 4 DC positive (+)  
PIN 6 DC negative (-)

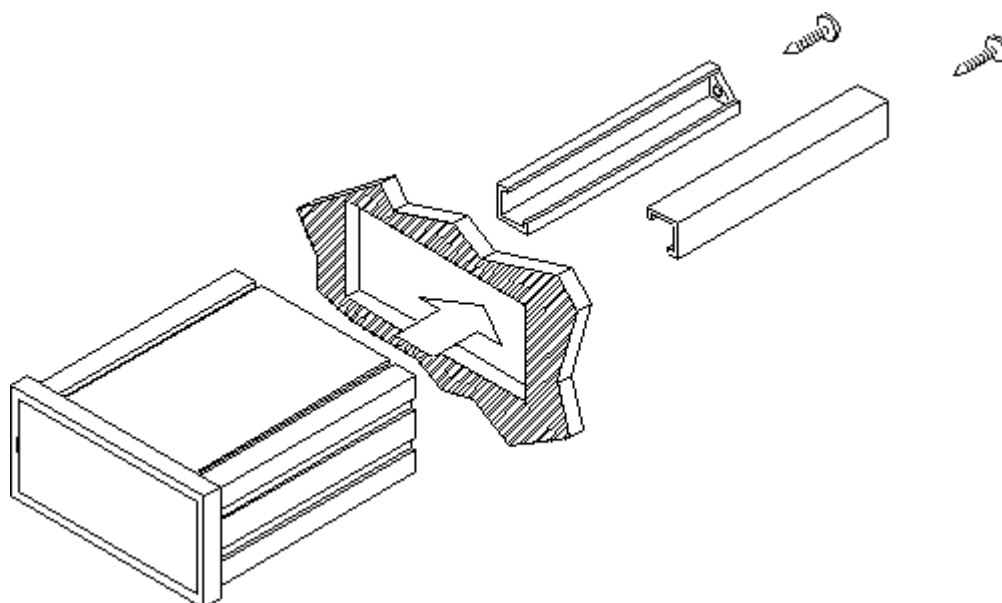
## **WIRING SCHEMATICS**



## MOUNTING



Min. thickness: 0.8mm  
Max. thickness: 10mm



## LOGIC LEVELS CONFIGURATION

### DIGITS

|    | TTL 24V positive | TTL 24V negative |
|----|------------------|------------------|
| J1 | ON (2-3)         | ON (1-2)         |
| J2 | ON (1-2)         | ON (1-2)         |
| J3 | ON               | ON               |
| J4 | ON               | ON               |
| J5 | ON               | ON               |
| J6 | ON (1-2)         | ON (2-3)         |
| J7 | ON (2-3)         | ON (1-2)         |

### SIGN AND DECIMAL POINT

|     | TTL 24V positive | TTL 24V negative |
|-----|------------------|------------------|
| J8  | ON (2-3)         | ON (1-2)         |
| J9  | ON               | ON               |
| J10 | OFF              | OFF              |
| J11 | OFF              | OFF              |

### LATCH

|     | TTL 24V positive | TTL 24V negative |
|-----|------------------|------------------|
| J12 | ON (2-3)         | ON (1-2)         |

**Note:** Pull-up resistors IR1, IR2, IR3 and R1 must only be connected in case of negative logic.

### Warranty:

Press the icon to see it.



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