



[DITEL:](#) [PRODUCTS:](#) [DIGITAL STARS:](#) **7780X**



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## DESCRIPTION

Model 778 panel indicators are specific instruments for readout rotational rates from 0 to 9999 rpm with an input for 60 pulses per revolution.

If desired, the decimal point location may be selected by soldering jumpers located at the rear of the display and accessible after removal of the lens.

The input option allows direct connection to several types of proximity sensors and pulse generators and provides a +10V output to supply the transducers that require external excitation.

Reset is automatically made at the moment of power removal.

Power and signal connections are made via a 6-pin MAT-N-LOK AMP connector located at the rear of the unit.

## SELECTION GUIDE

<b>7780</b>	<b>X</b>	<b>Y</b>	<b>0</b>	<b>4</b>
<b>INPUT</b>				
Magnetic pickup	1			
NAMUR sensor	2			
TTL/24V pulses	4			
NPN sensor	7			
PNP sensor	8			
<b>SUPPLY POWER</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

**7780 4204 E63** : Tachometer for 60ppr. S700 Power: 230V AC (50/60Hz)  
Input type: TTL/24V pulses Format 72x36mm Unit: rpm

## SPECIFICATIONS

### INPUT SIGNAL

- Input type: magnetic pickup, NAMUR, TTL/24V DC pulses, NPN and PNP sensors
- Common mode max. voltage (signal/power)
  - AC voltage : 1000V DC or 1500V ACpp
  - DC voltage :  $\pm 400V$  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

### TRANSDUCERS EXCITATION

- Incorporated +10V @ 60mA non stabilized

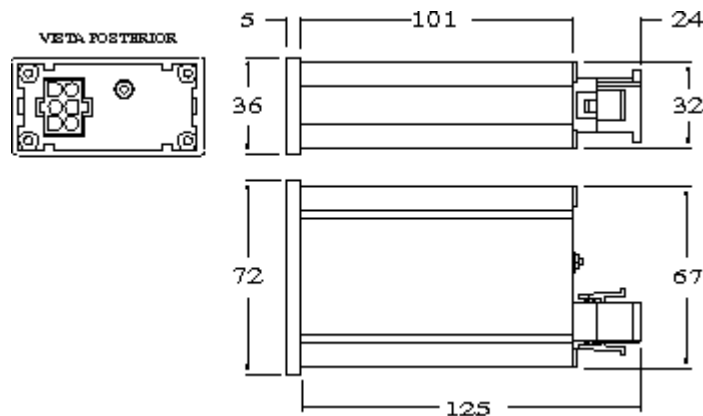
### DISPLAY

- Type red LED (0.4") 10 mm. high
- Resolution 4 digits (9999)
- Decimal point selectable by soldering jumper

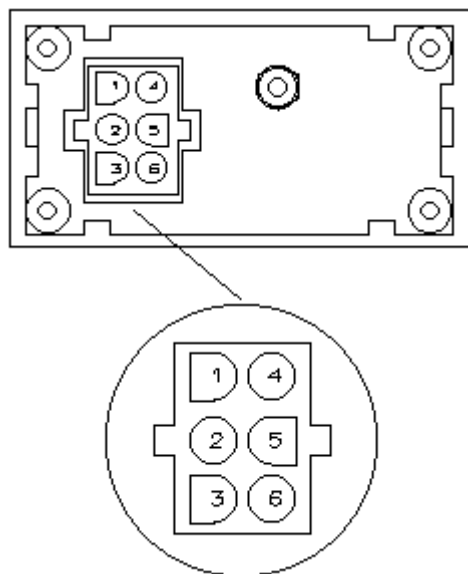
### ENVIRONMENTAL

- Operating temperature 0° to 50°C
- Storage temperature -25° to +85°C
- Relative humidity max. 95% (non condensing)
- Weight 300g
- Dimensions 72x36x110mm. (s/DIN 43700)
- Panel cutout 68x33mm. (s/DIN 43700)
- Case material 94 V-0 UL-rated polycarbonate

## DIMENSIONS (mm)



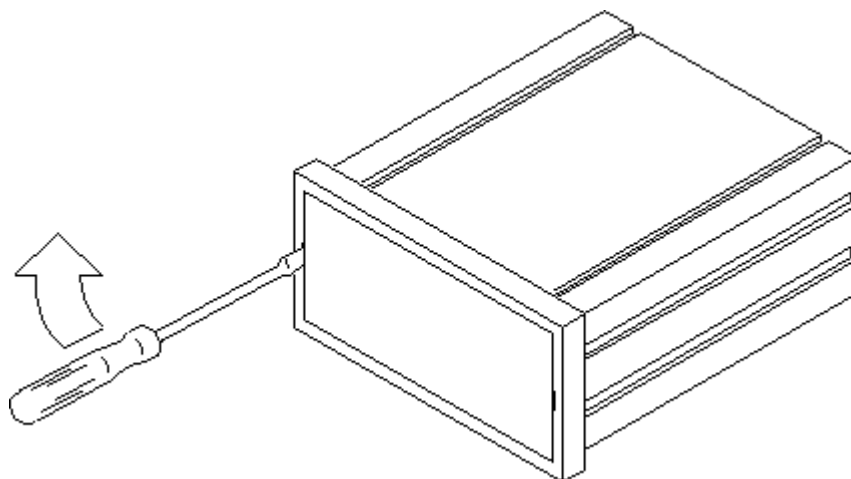
## SIGNAL AND POWER CONNECTION



AC VERSION	
PIN 1	Spare
PIN 2	Input signal (+)
PIN 3	Common
PIN 4	AC HI
PIN 5	Excitation
PIN 6	AC LO (neutral)

DC VERSION	
PIN 1	Spare
PIN 2	Input signal (+)
PIN 3	Common
PIN 4	DC positive (+)
PIN 5	Excitation
PIN 6	DC negative (-)

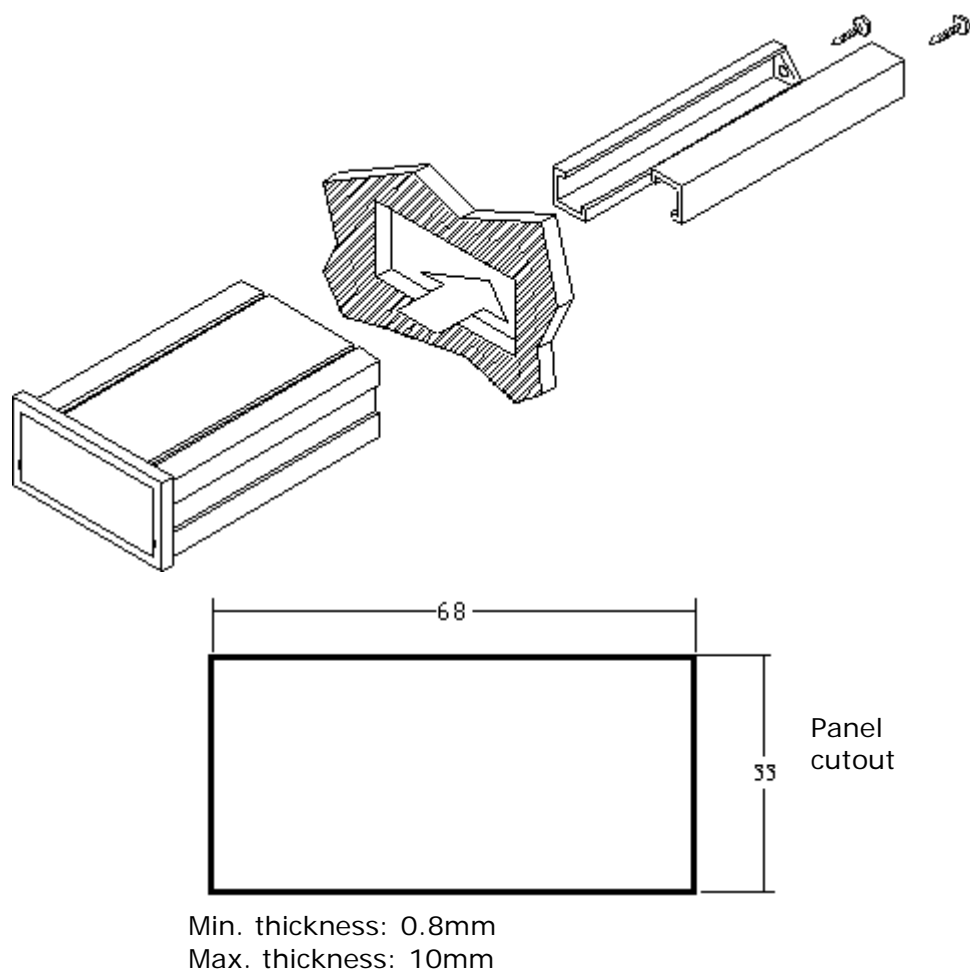
## ACCESS TO CONFIGURATIONS



Remove lens by placing an appropriate sized screwdriver in the slot and pushing laterally as it is shown in the figure until the lips disengage.

To reinstall lens, insert it completely from one side and press from the other until it is perfectly fitted.

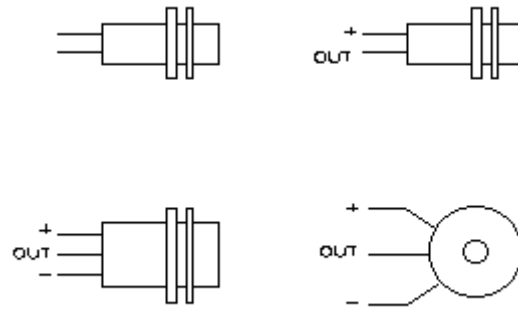
## MOUNTING



## SENSOR CONNECTION

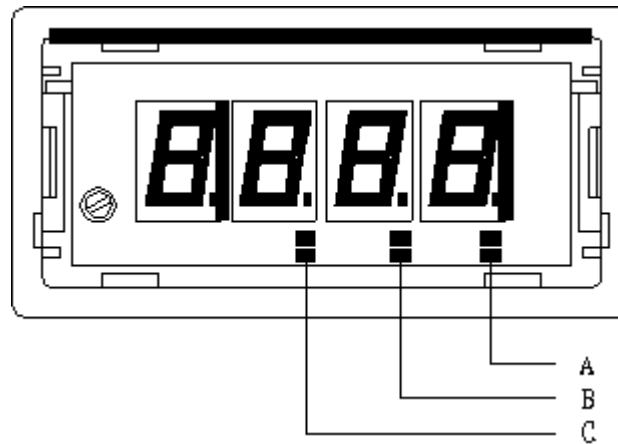
Magnetic pickup
PIN 3 = GND
PIN 2 = SIGNAL

NAMUR sensor
PIN 5 = +8V
PIN 2 = SIGNAL



PNP and NPN sensors	TTL/24Vdc pulses
PIN 5 = +10V	PIN 5 = +10V
PIN 3 = GND	PIN 3 = GND
PIN 2 = SIGNAL	PIN 2 = SIGNAL

## DECIMAL POINT



To change the decimal point location, remove the frontal lens and solder the appropriate jumper as indicated here below:

Jumper	Display
A	9.999
B	99.99
C	999.9
None	9999

### Warranty:

Press the icon to see it.



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