DITEL: PRODUCTS: DIGITAL STARS: **9791XY06**

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DESCRIPTION

Model 9791 panel counters are instruments used to count up pulses up to 999999 with a variety of operating modes:

- Totalizer
- Presettable UP counter
- Presettable DOWN counter
- Presettable UP/DOWN counter

They allow direct connection to contact closure, pulse generators and most proximity sensors for which the meter features a +8V or +20V excitation output.
Reset is made by a front-panel button or either remotely.
There is a non-volatile memory facility which will keep count data even after a power cut for an unlimited period.
They also provide programmable input frequency, multiplier or divider factor, reset mode (manual, automatic), relay's operating mode (monostable, bistable).

SELECTION GUIDE

9791	X	Y	0	6
INPUT				
Magnetic pickup	1			
NAMUR sensor	2			
Phototransistor	3			
TTL/24V pulses	4			
Contact closure	6			
NPN sensor	7			
PNP sensor	8			
POWER SUPPLY				
115V 50/60Hz		1		
230V 50/60Hz		2		
12V DC ISOLATED		4		
24V 50/60Hz		7		
24V DC ISOLATED		8		
SILKSCREENED UNIT				

ORDERING EXAMPLE

9791 6206 E41 : Programmable counter S9000
Supply power: 230V AC (50/60Hz)
Type of input: Contact closure
Format: 96x48mm Unit: mm

SPECIFICATIONS

INPUT SIGNAL

- Frequency max. 400Hz

Sensor type	Excitation	1 Logic	0 Logic	Rc
Magnetic	-	>60mVac		
NAMUR	8Vdc	>1mAdc	>3mAdc	Rc = 1kohm
Phototransistor	8Vdc			330ohm/1kohm
TTL/24V	8/20Vdc	>1.6Vdc	<1.5Vdc	
NPN	20Vdc			Rc = 1kohm
PNP	20Vdc			Rc = 1kohm
Contact closure	-			Rc = 22kohm

TRANSDUCERS EXCITATION

- Maximum current 60mA

POWER

- Supply voltages

AC (50/60Hz) 24, 115, 230V AC
DC (isolated) 12, 24V DC

- Maximum isolation 1000V DC or 1500V ACpp
- Consumption 5W nominal

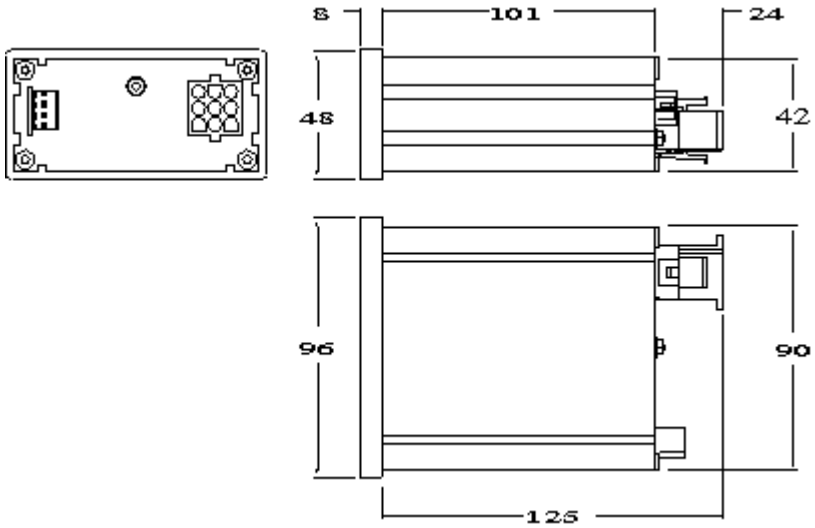
DISPLAY

- Type red LED (0.56") 14 mm. high
- Resolution 6 digits (999999)
- Decimal selectable by soldering jumper
- Memory >10 years, NOVRAM type

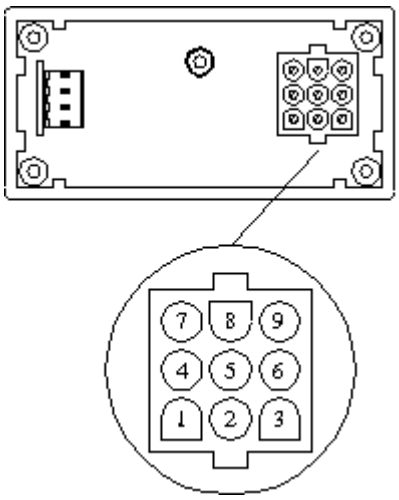
ENVIROMENTALS

- Operating temperature 0°C to 50°C
- Storage temperature -25°C to +85°C
- Relative humidity max. 95% (non condensing)
- Weight 300g
- Dimensions 96x48x110mm. (s/DIN 43700)
- Case material 94 V-0 UL-rated polycarbonate

DIMENSIONS (mm)



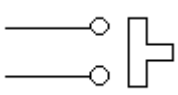
POWER AND RELAY CONNECTION



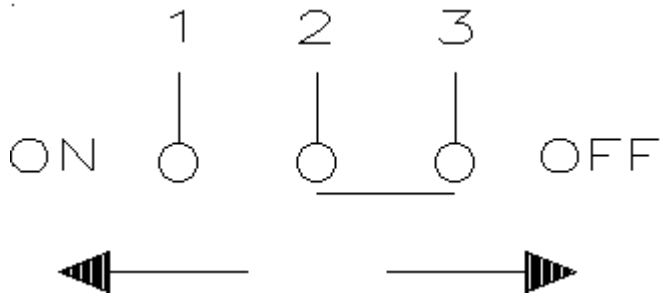
AC power supply
PIN 7 AC HI
PIN 9 AC LO (neutral)

DC power supply
PIN 7 DC negative (-)
PIN 9 DC positive (+)

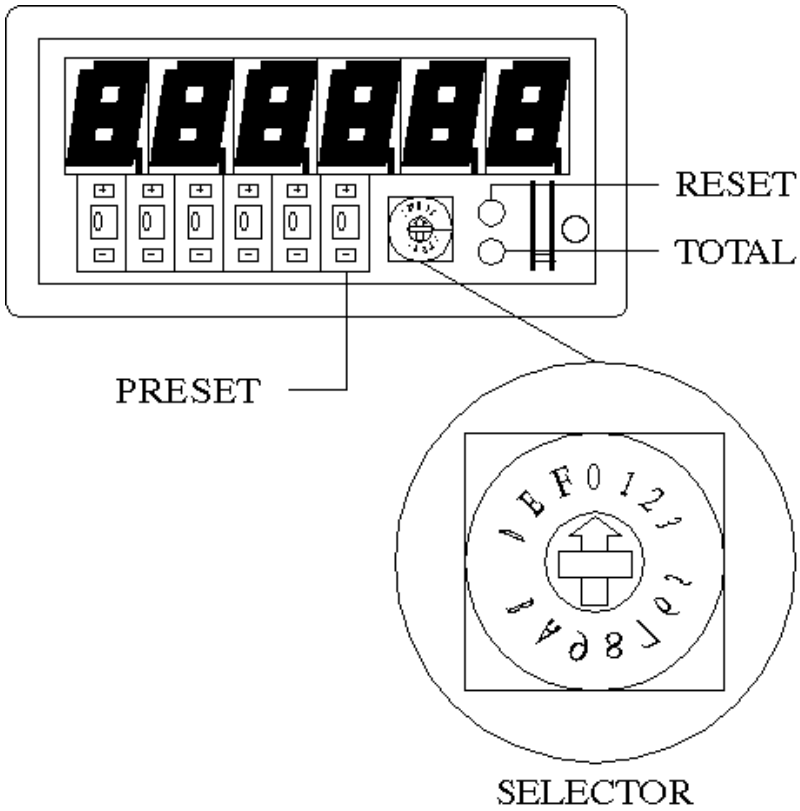
External reset
PINS 5 and 6



Relay contacts
PIN 1 ON (NO)
PIN 2 Common
PIN 3 OFF (NC)

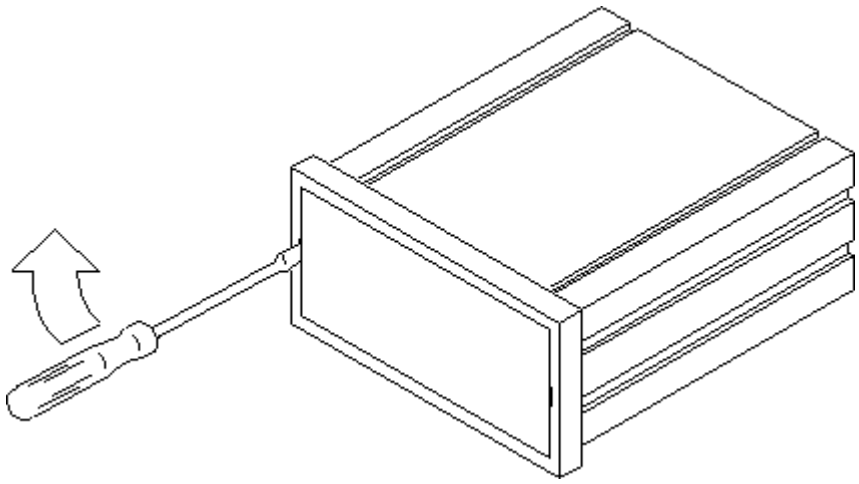


DECIMAL POINT

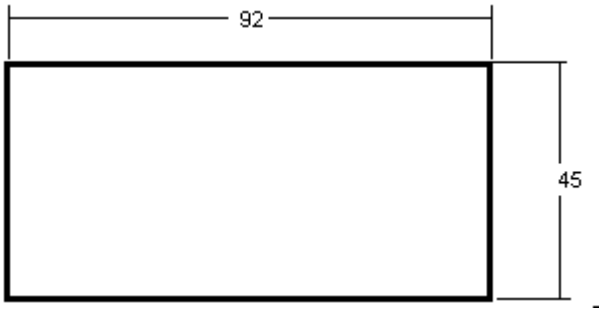


Remove lens by placing an appropriate sized screwdriver in the slot and pushing laterally as it is shown in the figure until the lips disengange. Unscrew the rear nut to lift the circuits out from the front of the case.

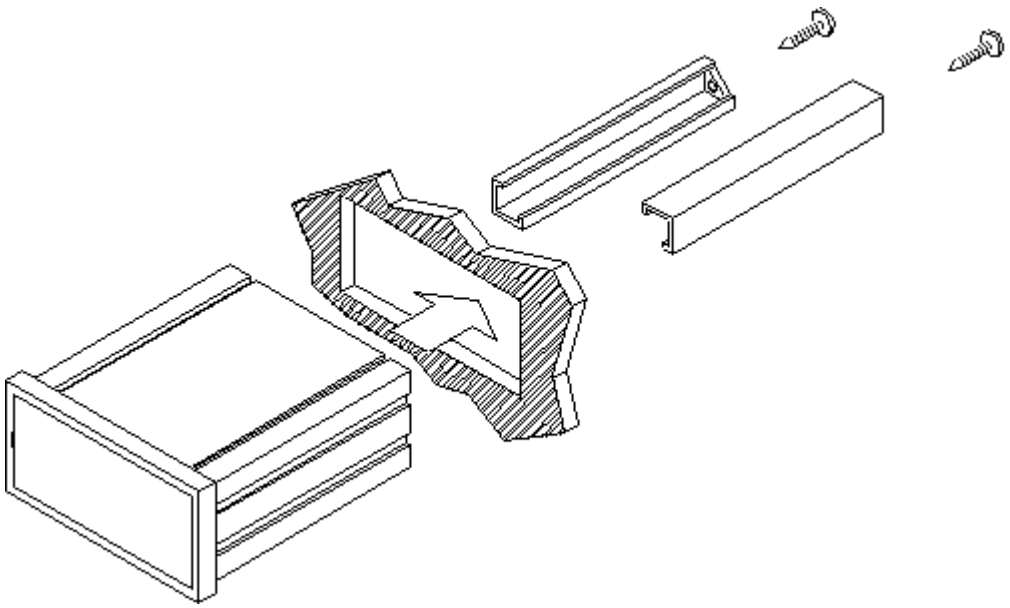
To reinstall lens, insert it completely from one side and press from the other until it is fitted.



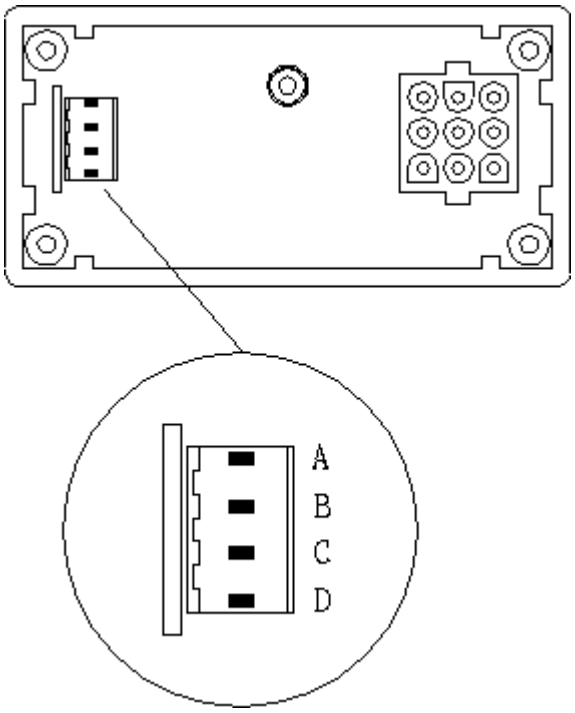
MOUNTING



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



INPUT SIGNAL CONNECTION



Magnetic pickup
PIN A = GND PIN C = GND
PIN B = INPUT2 PIN D = INPUT1

NAMUR sensor
PIN A = +8V PIN C = +8V
PIN B = INPUT2 PIN D = INPUT1

The main sensor must be connected to the Input1 and the auxiliary sensor (90° out of the phase signal to determine the UP/DOWN direction) to the input2.

PNP and NPN Phototransistor
PIN A = +8V or +20V PIN A = +8V
PIN C = GND PIN C = DIODE
PIN D = INPUT PIN D = INPUT

TTL/24Vdc pulses Contacto closure
PIN A = +8V or +20V PIN C = GND
PIN B = INPUT2 (90°) PIN D = INPUT
PIN C = GND
PIN D = INPUT1 (count)

Impulsos TTL/24Vdc Contacto libre
PIN A = +8V ó +20V PIN C = MASA
PIN B = INPUT2 (90°) PIN D = INPUT
PIN C = MASA
PIN D = INPUT1 (impulsos)

Warranty:
Press the icon to see it.

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