



[DITEL:](#) [PRODUCTS:](#) [DIGITAL STARS:](#) **9920XY0X**



[Print this page](#)

## DESCRIPTION

Model 9920 panel counters are specific instruments that measure the time elapsed in hours, minutes and seconds between the start and stop input pulses with two standard ranges : 9999h 59min or 99h 59min 59s.

The START/STOP input can be applied to the meter by means of contact closure, TTL or 24Vdc pulses and several proximity sensors such as magnetic pickup, NAMUR, NPN and PNP sensors, for which the meter delivers the necessary excitation supply.

The input option allows the START/STOP signal to be configured for the type of sensor as well as for direct or reverse operation.

Unless custom specification, model 9920 counters are shipped from the factory set to contact closure input and reverse operation ; that is, contact closed (level "0") = START and contact open (level "1") = STOP.

Ressetting the counter is accomplished by an external pushbutton. The response time to reset input is three seconds.

## SELECTION GUIDE

<b>9920</b>	<b>X</b>	<b>Y</b>	<b>0</b>	<b>X</b>
<b>INPUT</b>				
NAMUR sensor	2			
TTL/24Vdc pulses	4			
Contact closure	6			
NPN sensor	7			
NPN sensor	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>TIME RANGES</b>				

99h 59min 59s				5
9999h 59min				6
<b>SILKSCREENED UNIT</b>				

## ORDERING EXAMPLE

**9920 6206 E75:** Hours counter Series 9000  
 Supply power: 230V AC (50/60Hz)  
 Input type: Contact closure  
 Range: 9999h 59min. Unit: h:min

## SPECIFICATIONS

### INPUT SIGNAL

- START/STOP input configurable
- RESET input external pushbutton
- Common mode max. voltage (signal/power)
  - AC Voltage: 1000V DC or 1500V ACpp
  - DC Voltage:  $\pm$  400V DC

### POWER

- Supply voltage
  - AC (50/60Hz) : 24, 115, 230V AC
  - DC (isolated) : 12, 24V DC
- Maximum isolation 1000V DC or 1500V ACpp
- Consumption 4.5W nominal

### TRANSDUCERS EXCITATION

- Incorporated +10V @ 60mA non stabilized

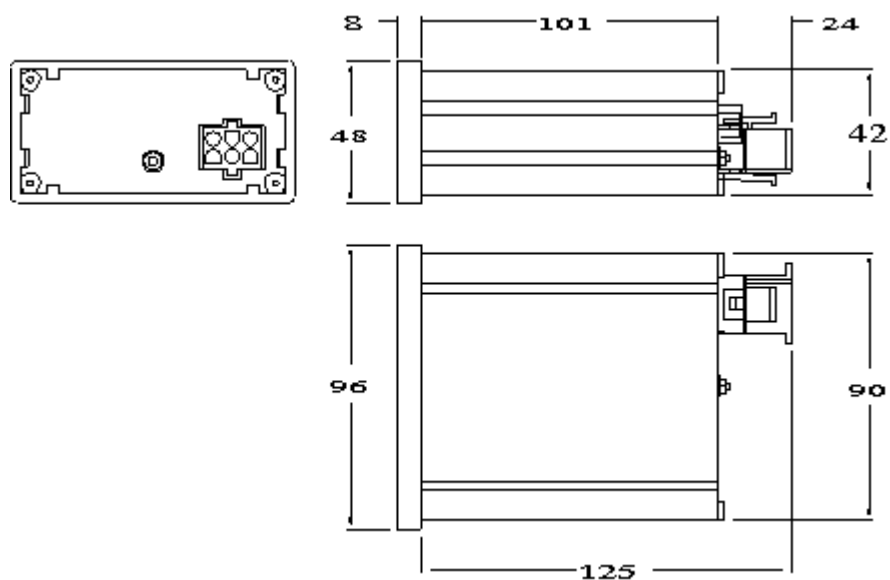
### DISPLAY

- Type LED (0.56") 14 mm. high
- Resolution 6 digits
- Ranges 99h 59min 59s - 9999h 59min

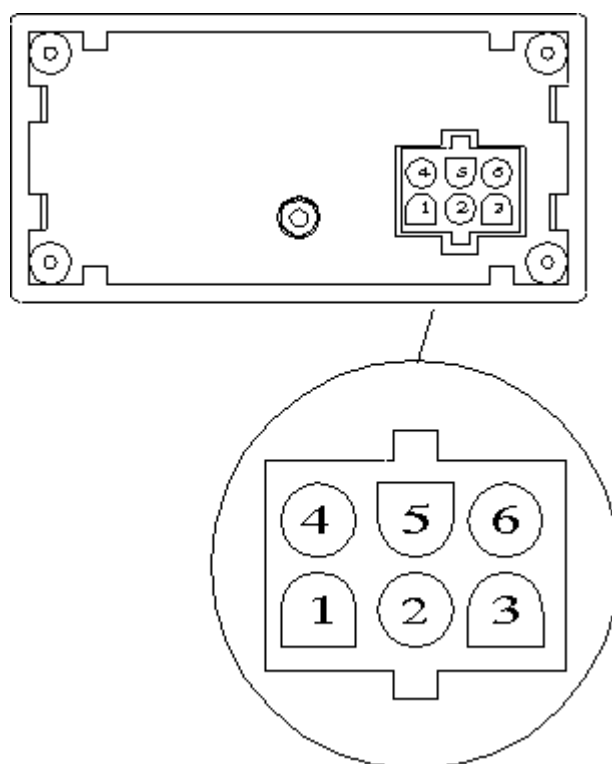
### ENVIROMENTALS

- Operating temperature 0° to 50°C
- Storage temperature -25° to +85°C
- Relative humidity max. 95% (non condensing)
- Weight 450g
- Dimensions 96x48x110mm. (s/DIN 43700)
- Panel cutout 92x45mm. (s/DIN 43700)
- Case material 94 V-0 UL-rated polycarbonate

## DIMENSIONS (mm)



## SIGNAL AND POWER CONNECTION



### AC VERSION

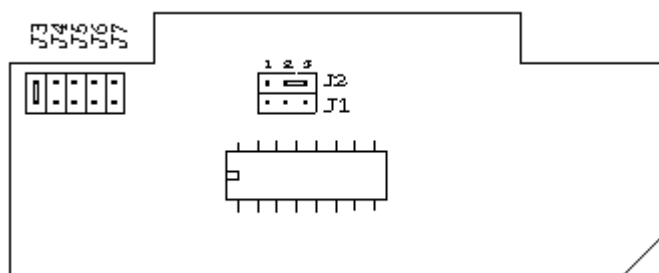
PIN 1 Reset  
 PIN 2 Signal  
 PIN 3 Common (GND)  
 PIN 4 AC HI  
 PIN 5 Exc. (+10V)  
 PIN 6 AC LO (neutral)

### DC VERSION

PIN 1 Reset

PIN 2 Signal  
 PIN 3 Common (GND)  
 PIN 4 DC positive (+)  
 PIN 5 Exc. (+10V)  
 PIN 6 DC negative (-)

## INPUT CONFIGURATION



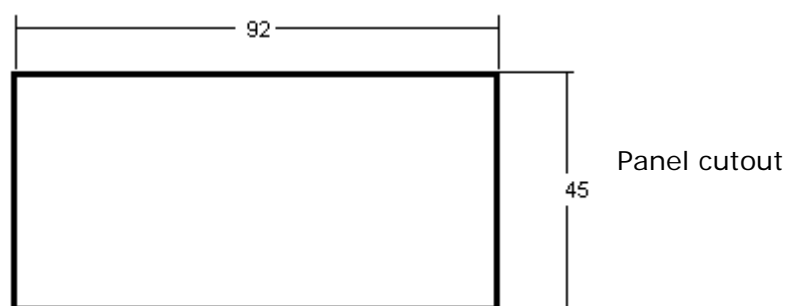
Opción contador REF. 339

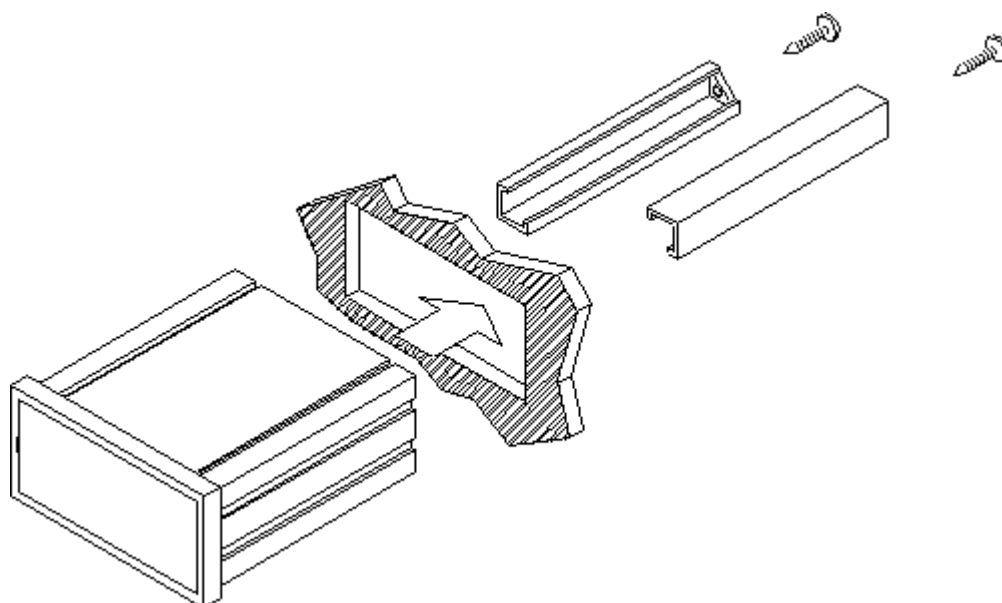
Input configuration	
Input Type	Jumpers
NAMUR sensor	J4 J5 J7
TTL/24V pulses	J3 J7
Contact closure	J3 J5 J6 J7
NPN sensor	J6 J7
PNP sensor	J4 J7

Operating mode configuration	
Start/stop level	Jumper J2
Contact closed = START	2-3
Contact closed = STOP	1-2

## MOUNTING

Espesor mín.: 0.8mm  
 Espesor máx.: 10mm

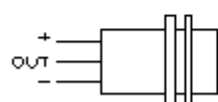
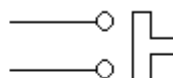
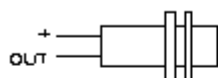




## SENSOR CONNECTION

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

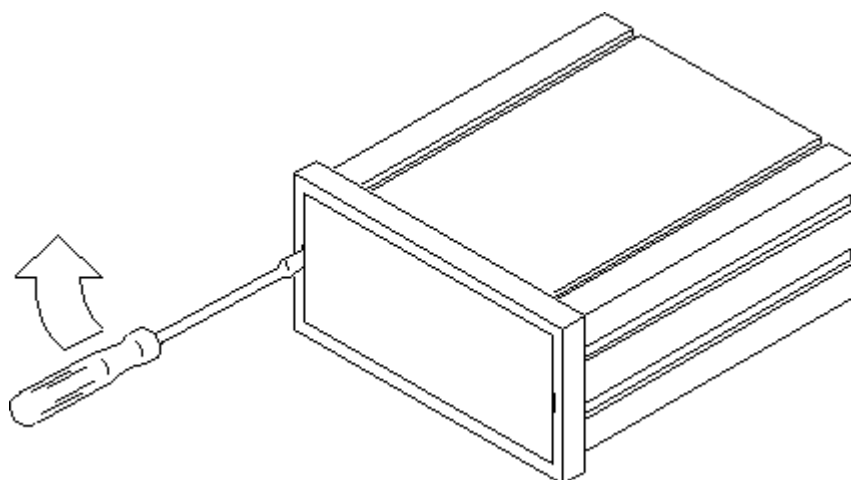
Contact Closure
PIN 3 = GND
PIN 2 = SIGNAL



PNP y NPN sensors
PIN 5 = +10V
PIN 3 = GND
PIN 2 = SIGNAL

TTL/24Vdc pulses
PIN 5 = +10V
PIN 3 = GND
PIN 2 = SIGNAL

## 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. 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 perfectly fitted.

#### **Warranty:**

Press the icon to see it.



[Change language](#) | [Back to the menu](#)

