

# CRONO



Production counter: total + instantaneous - 6 digit - DIN 96x48

REEL TORINO data sheet

DL3UK0006A0

## SPECIFICATIONS

- ✓ **Unit performing a monitor-control of production-batch**
- ✓ **Resettable counter up to 10 milion pcs/event**
- ✓ **Totalizer up to one billion pcs/event**
- ✓ **Production-counter (hour/minute) 6 digit**
- ✓ **Work-hour-counter (sincronised on the production) up tp 10.000 hours**
- ✓ **Programmable report summary (pcs/pulse - pulse/pcs)**

## VERSIONS

The following versions are available:

- CRONO61: it has a scanner that automatically commutes, according to a programmed frequency, the reading from totalizer to production counter; no general totalizer available; the instrument can be put in an explosion-proof case.
- CRONO62: it has the general totalizer; no scanner available.

## APPLICATION & PERFORMANCE

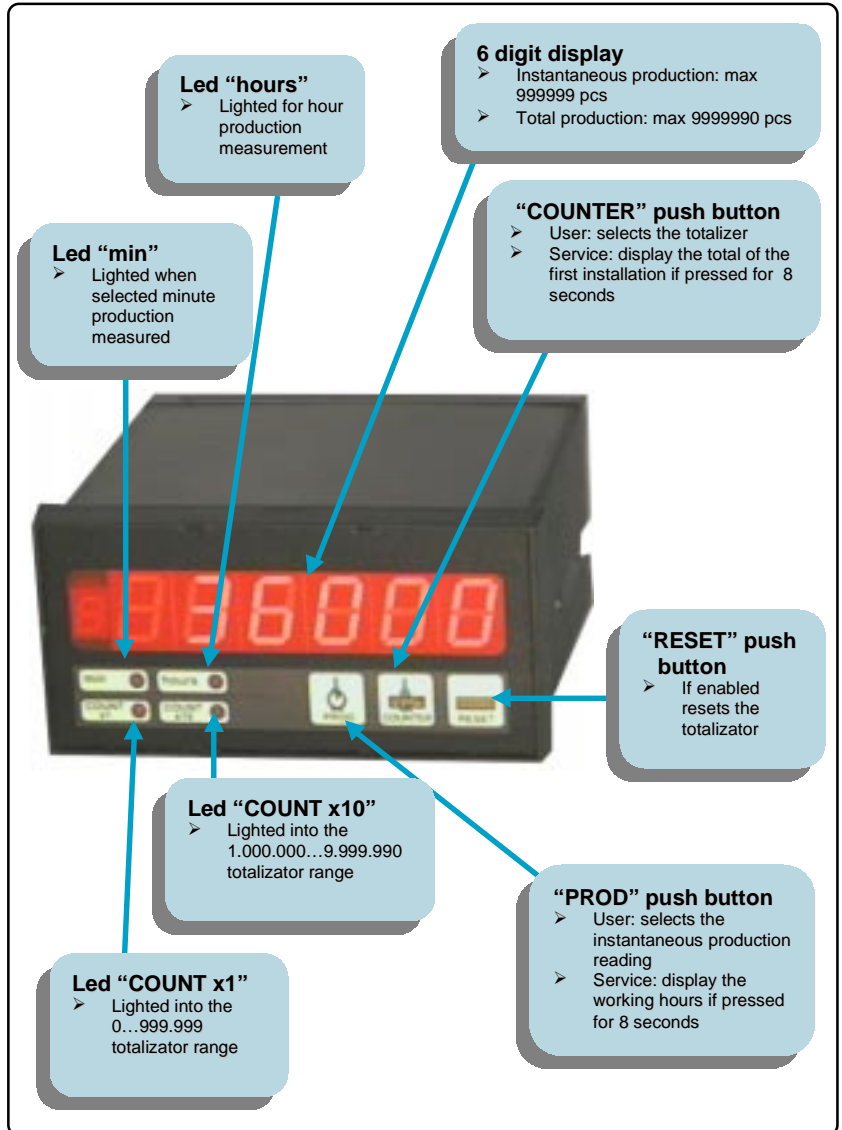
CRONO is an instrument that, installed on a machine, gives useful information to the operators about the instantaneous and total production and to the maintenance staff about the worked hours and the production total from the work starting. The operator can have the wished information only by pressing a key.

The clearness of the graphics makes the instrument easily utilizable on any kind of machine.

The completeness of checked data, the compactness and the reduced sizes of the execution, along with the autonomy from supervision systems, make CRONO an essential element to assure always valid and believable information on the machine state and on the current production.

The survey is made through the measure of the period of impulsive signals coming from industrial sensor like: photocells, proximity switches, and incremental encoders.

The inputs of the speed measure and of the counter acquisition are separated to allow, if necessary, the survey in different areas of the installation.



Reliability

# CRONO

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## TECHNICAL DATA

### PACKAGE

Case: panel mount 96x48 mm frontal IP54  
 Cutout dimension: 92x45 mm; depth: 100 mm  
 Case material: Noryl  
 Keyboard: 3 membrane push buttons  
 Connections: by extractable terminal block 12 pole

### DIGITAL INPUT

Signal: NPN or PNP configurable  
 Voltage: 10...30Vdc; impedance: 2200 ohm  
 Sensor supply: 12 Vdc – maximum 60 mA  
 IN1: totalizer input maximum 10KHz speed  
 IN2: production counter input maximum 10KHz speed

RST1: zeroing input  
 RST2: scanning enable [4]  
 GT: count block input

### COUNTER AND DISPLAY

Display (red led): 6+1 digit, max displayed value 0...999999  
 Character high: 12,5 mm

### POWER SUPPLY

Power supply: 24, 115, 230Vac, 24Vdc [1], 24VDCI [2]  
 Consumption: max 3,3 VA (3,3 W)  
 Tolerance: ± 10 %; frequency (AC): 50/60 Hz  
 Data storage memory: EEPROM static memory

### AMBIENTAL CONDITIONS

Operating temperature: -10 ÷ 50 °C  
 Relative humidity: 0...95% not condensing  
 Storage temperature: -25 ÷ 70 °C

### CONFORMITY TO CEE GUIDELINES

Directive: CEE 93/68  
 CEE 89/336 (EMC)  
 CEE 73/23 (BT)

### RESECTABLE COUNTER

Max range: 0...999999 pulses x1 resolution  
 0...9999990 pulses x10 resolution  
 Ratio: pcs/pulses and/or pulses/pcs setting

Frontal reset push button: enabled or not enabled

### PRODUCTION COUNTER

Max range: 0...999999 pcs  
 Ratio: pcs/pulses and/or pulses/pcs setting  
 Sampling: production per hour; production per minute  
 Reset: 0,5...999 seconds  
 Fix display zeroes: 0, 1, 2 (resolution x1, x10, x100)

### HOURS COUNTERS

Max range: 0...9999 hour and 59 minutes  
 Sincronised: automatic on the real production  
 Enabled: by continuous press of the "PROD" key  
 Resetted: by continuous press of the "RESET" key (during display mode)

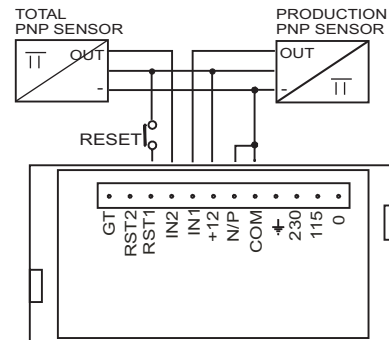
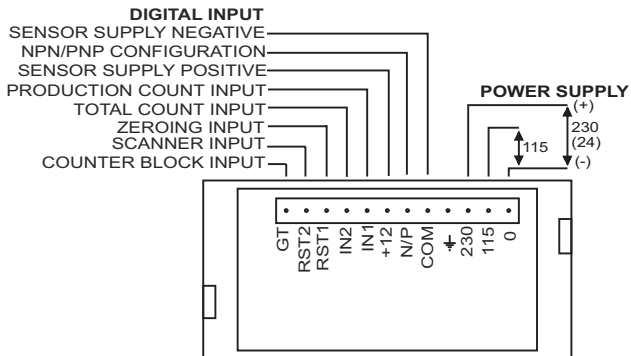
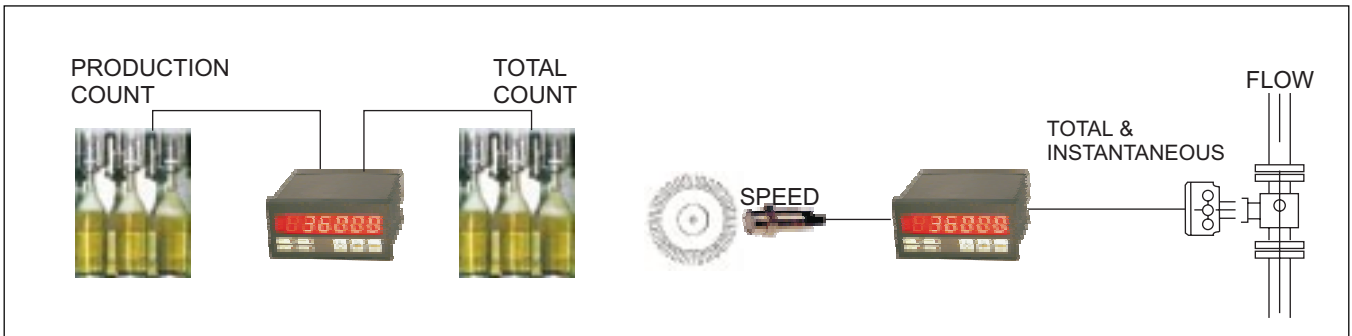
### GENERAL TOTALIZATOR [3]

Max range: 0...999999000 pulses  
 Enabled: by continuous press of the "COUNTER" key  
 Resetted by: continuous press of the "RESET" key (during display mode)

### SCANNER [4]

Scanner time: 5...31 seconds  
 Safety: hold the counter when the production is blocked

[1] 24Vdc power supply not galvanically insulated version: negative input signal short-circuit to negative power supply  
 [2] 24Vdc power supply galvanically insulated version  
 [3] available only in the CRONO62 model  
 [4] available only in the CRONO61 model



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Reliability