

Type series 520

1. Description

- 6digit adding counter, resetable
- LED-Display with 8 mm high characters and very high luminosity
- Display range 0..999999 (overflow condition will be indicated by displaying the count value without leading zero blanking. The display restarts at 0.)
- Programming of count functions and operating parameters via the setting keys. During programming the display guides the user with text prompts.
- Supply voltage 10..30 VDC
- Programmable features:
 - Input polarity (pnp or npn)
 - Max. count frequency (30 Hz or 10 kHz)
 - Decimal point
 - Reset mode:
 - electrical
 - manual
 - manual and electrical
 - no reset

2. Inputs

INP

Dynamic count input. Max. count frequency 30 Hz or 10 kHz programmable via set up

RESET

Dynamic reset input. Linked to the red reset key.

3. Setting of the operating parameters

- Hold down keys on front panel and switch on the supply voltage.
- The display shows

Prog

- After releasing the keys the display alternates between menu title and corresponding menu item at a frequency of 0.5 Hz. After any key is pressed down, only the menu item is displayed.
- Pressing the right key, the menu item will be switched to next value.
- Hold down the left key and press the right key to enter and switch to the next menu title.
- After programming the last menu item, the programming routine will be left and the new values will be stored by switching the menu item to „YES“. If you chose „NO“, the programming routine will be passed through once again.

4. Programming routine

Programmable parameters are shown in succession. After one pass, the device is fully programmed.

In each case the first shown item is the factory preset.

4.1 Input polarity

InPol

nPn

npn: switching to 0 V

PnP

pnp: switching to (+ 4 - 30 V)

4.2 Activating the 30 Hz filter

Filter

hi

max. count frequency 10 kHz

Lo

max. count frequency 30 Hz

4.3 Decimal point

dP

The decimal point indicates the number of decimal places.

0

0 no decimal place

0.0 one decimal place

0.00 two decimal places

0.000 three decimal places

4.4 Reset mode

rESnrd

rRnEL

manual reset (red key) and electrical reset

no rES

no reset (red key and reset input locked)

EL rES

electrical reset only

rRnrE

manual reset only

4.5 End of programming

EndPro

no

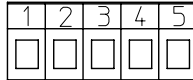
Programming routine will be passed through once again. All parameters can be checked.

YES

Programming routine will be left and the new parameters will be stored. Afterwards the device is ready to use.

5. Connections

- 1 10-30 VDC
- 2 0 V (GND)
- 3 INP
- 4 ---
- 5 RESET



6. Technical data

Supply voltage:

10...30 VDC

Max. current consumption:

50 mA

Display:

6digit LED-Display, 8 mm high characters

Polarity of input signals:

programmable for both common inputs (nnp or pnp)

Input resistance: appr. 10 kohm

Count frequency: 10 kHz can be damped to 30 Hz

Min. pulse length of the control inputs: 5 ms

Input sensitivity:

Low: 0 to 1 VDC

High: 4 to 30 VDC

Pulse shape: variable (Schmitt Trigger characteristic)

Data retention:

via EEPROM 1x10⁶ memory cycles or 10 years

Noise immunity:

EN 50081-2; EN 55011 class B; EN 50082-2

Ambient temperature: +14°F...+122°F (-10 °C...+50 °C)

Storage temperature: -13°F...+158°F (-25 °C...+70 °C)

Weight: appr. 1.76 oz.(50 g)

Protection: IP 65 (front)

Cleaning:

The front of the unit is only to be cleaned with a soft wet (water !) cloth.

7. Dimensions:

W = 1.88" (48mm) H = .944" (24mm) D = 2.32" (59mm)

8. Cutout:

W = 1.78" (45.2mm) H = .876" (22.3mm)

With adaptor: W = 1.97" (50mm) H = 0.99" (25mm)