SYNATEL DISTRIBUTION

A low cost electronic Counter which can be user programmed for single or quadrature input with scaling. The unit incorporates a 6 digit red LED display with programmable decimal point, in a DIN 96x48mm enclosure (panel cut-out size: 92x44mm). Choose your function from Chart (1), set front switches to required mode (2), Amend programme (3), set rear switches to required mode (4).
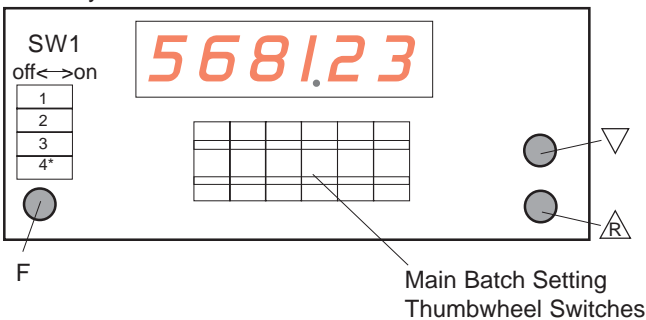
1 Internal Slide Selection Switch (SW1)

Position	Function
1	ON: Two Phase Input
	OFF: Single Phase Input
2	ON: Decremental Counter
	OFF: Incremental Counter
3	ON: Multiplier
	OFF: Divider
4*	ON: Set Divider/Multiplier Value
	OFF: Run Mode

2 Switch Settings

Carefully remove front bezel to access controls.

SW1
off<—>on
1
2
3
4*

F

Main Batch Setting
Thumbwheel Switches

3 Programme Settings

To Set a Decimal point: (All units).

Press and hold $\underline{R}$. Then press 'F' button to move decimal point. 0, 1, 2 or 3 places of decimal can be selected.

To Set Pre-batch Value: (MFC102 only).

Pre-batch value (output 1) is the number of counts required before main batch operates. i.e 5 before, or 10 before etc. Once set, this figure will always stay the same, irrespective of how often final batch number is altered. Applies to both Up (Incremental) & Down (Decremental) counters.
Press & release 'F'. Display will show PXXXXX, use $\underline{R}$ to raise value or $\bigtriangledown$ to lower value. After setting, press 'F' twice to return to run mode (ignore tXXXXX).

To Set a Pulse Output Time: (MFC101/102 only).

Press & release 'F' button once for MFC101, or twice for MFC102, to show tXXXXX. use $\underline{R}$ to raise value or $\bigtriangledown$ to lower value. After setting, press 'F' once to return to run mode. (Note that rear switch has to be in 'C' position).
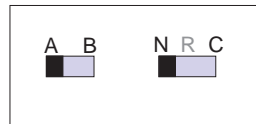
To set Divider/Multiplier Value: (All units).

With Switch 4* in ON position, Turn power off and then back on again. Press $\underline{R}$ to increase value or $\bigtriangledown$ 1 to lower value. *Once value has been set, return Switch 4 to OFF position and turn power off and then back on again.*

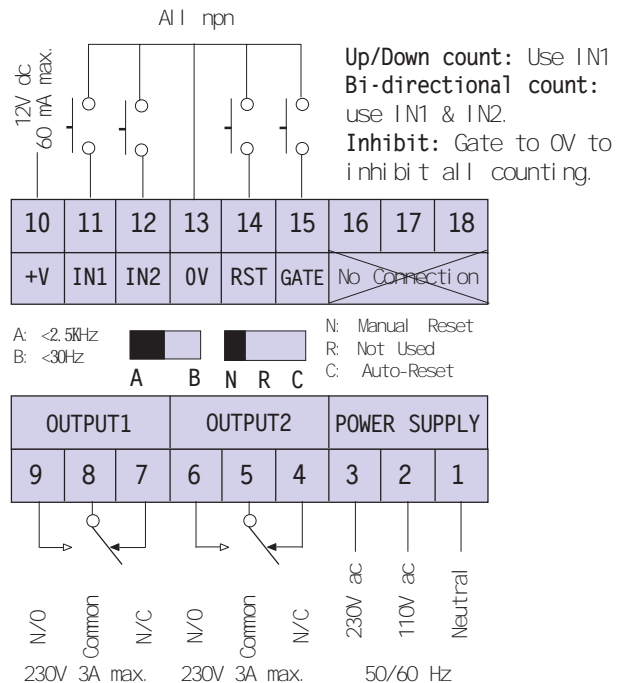## 4 Input Speed/Output Mode Selection

Rear Panel View

A B   N R C

A: High Speed Input <2.5KHz
B: Low Speed Input <30Hz

N: Relay output latched until internal or external reset. (Manual Reset).

R: Not used.

C: Pulse output at batch. (Auto-Reset)

Connections

All npn

12V dc
60 mA max.

Up/Down count: Use IN1
Bi-directional count: use IN1 & IN2.
Inhibit: Gate to 0V to inhibit all counting.

10	11	12	13	14	15	16	17	18
+V	IN1	IN2	0V	RST	GATE	No Connection		

A: <2.5KHz
B: <30Hz

A   B   N R C

N: Manual Reset
R: Not Used
C: Auto-Reset

OUTPUT1			OUTPUT2			POWER SUPPLY		
9	8	7	6	5	4	3	2	1

N/O   Common   N/C   N/O   Common   N/C   230V ac   110V ac   Neutral

230V 3A max.   230V 3A max.   50/60 Hz

*Note: MFC100 No outputs – MFC101 use output2
MFC102 use output1 (pre o/p) & output2 (main o/p)*

Dimensions

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48
9
96
99

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