

# Product Leaflet

## LCD-Module Type Series 180

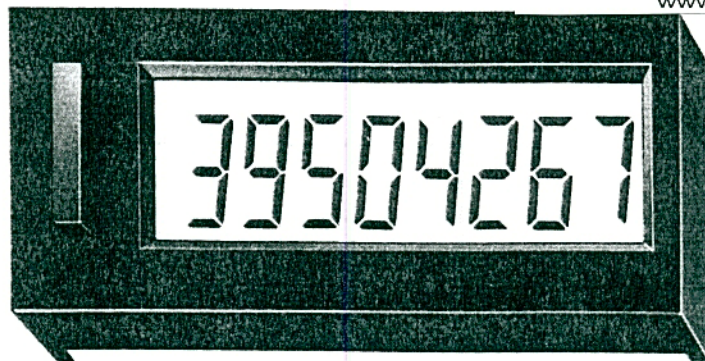


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### 8-digit LCD Counter Module

#### Applications:

Totalizer most suitable for industrial counting processes of all kinds.

Suitable for direct soldering on PCB and electronic circuitry.  
Compact size.

Low power consumption and heat evolution, therefore ideal for battery operation and portable equipment.

#### Description:

8-digit LCD-display.

Easy reading through suppression of leading zeros.

CMOS-technique with low power consumption. The counter is CMOS/TTL compatible.

Two separate count inputs allow safe operation.

– one count input for mechanical contacts for max. 40 Hz.

– one fast input for electronic signals up to 10 kHz.

Counter may be reset electrically or manually by key.

When battery operated with lithium battery 1000 mAh data retention is 10 years.

#### Technical Data:

Display: LCD, 8 digits, height of figures = 8 mm

Count mode: Adding

Operating voltage: 3 V  $\begin{matrix} +0.3V \\ -0.6V \end{matrix}$

Power consumption: < 10  $\mu$ A, average 5  $\mu$ A

Operating temperature: – 10 °C . . . + 50 °C

Storage temperature: – 25 °C . . . + 70 °C

Weight: Approx. 11 g

#### Fast Count Input:

Max. count speed: 10 kHz

Min. impulse on time: 50  $\mu$ s

#### Triggering:

"Log. low": < 0,7 V

"Log. high": 2,4 – 30 V

#### Counting on positive edge.

#### Slow Count Input:

Max. count speed: 40 Hz

Min. impulse on time: 13 ms

Input impedance: 1 M  $\Omega$

#### Triggering:

"Log. low": < 0,7 V

"Log. high": 2,4 – 30 V

#### Counting on negative edge.

#### Reset Input:

Static input, no counting when input signal active.

#### Note:

Reset input is switched against 0-volt when reset key is depressed.

Min. impulse on time: 12 ms

Input impedance: 1 M  $\Omega$

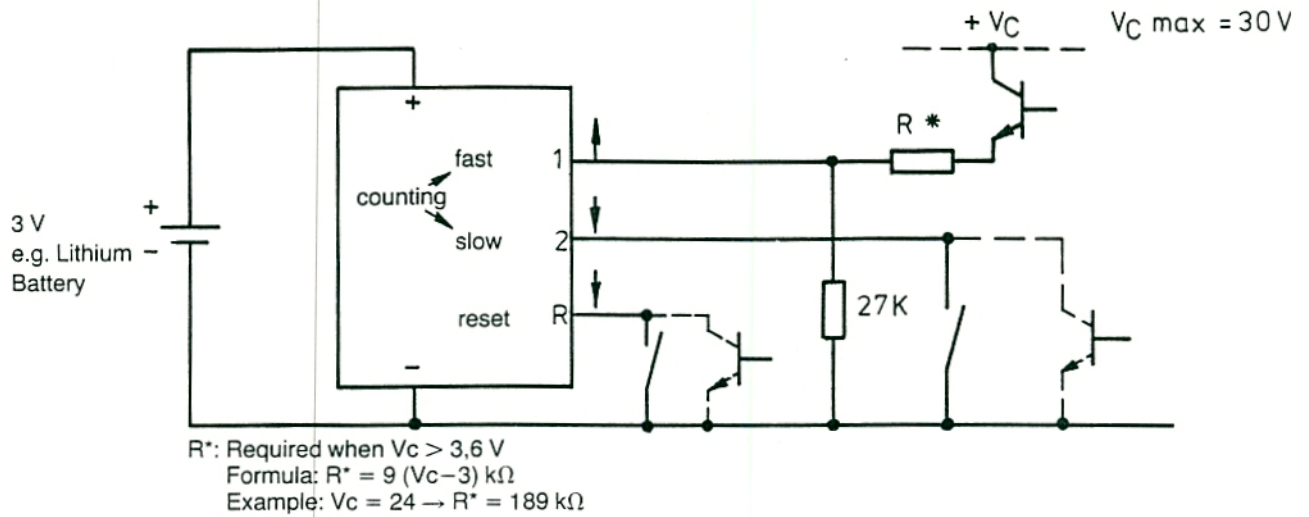
Switching voltage: 1,4 V

Switching on negative edge.

#### Connections:

Designation	Function
1	fast input
2	slow input
R	reset input
$\pm$	mains supply

Connection diagram:



Dimension diagram:

