

PRODUCT DATA

www.nortechcontrol.com

NCT100 Standalone Counting Solutions

PRODUCT DESCRIPTION

The Nortech NCT100 four-channel counting module can be used as a standalone unit providing up to 4 individual counters. One or more Variable Message Signs can be associated with each of the counters to provide information of space availability to staff and visitors. Up to two alarm outputs can be associated with each counter to indicate that the count has reached a predetermined value. The outputs can be used to operate Space/Full signs, traffic lights or other external indicators as necessary.

The Nortech numeric signs provide a 100mm high, 4-digit display of the count value or 'FULL' when the count value is less than one. These signs are driven over an RS485 bus from the NCT100 and can carry up to four independent count values to addressable displays connected to the bus.

Alternatively, the relay output from the NCT100 can be used to control Nortech's SPACE/FULL signs.



FEATURES

- Provides up to 4 individual counters for recording the number vehicles or personnel entering or leaving a controlled area
- Each counter can count record values between -32500 and +32500
- Both increment and decrement inputs (up to 4 of each, depending upon configuration)
- Each counter can be individually configured to count up or down
- Alarm and Pre-alarm outputs when counts reach preset thresholds
- Drives up to four individual Variable Message Sign count values
- Can be programmed directly using a full numeric keypad and 2-line x 16-character LCD
- Each counter can be reset to a pre-determined value via a general reset input

SPECIFICATIONS

NCT100

Electrical

Supply Voltage: 12 - 24V DC

Current Requirement: 100 mA quiescent, up to 230mA while

all alarms are active

Physical

Display: 2 lines x 16 character LCD
Keypad: 12 button membrane
Dimensions (mm): 190 x 130 x 43 (H x W x D)
Cable Termination: Plug-in screw terminal blocks

Environmental

Operating Temperature: 0°C to 40°C Storage Temperature: -20°C to 70°C Relative Humidity: 95% non-condensing

Capacity

Counting capacity: 4 counters, each counting up to 32500

Inputs

Increment/decrement: 4 counter increment and 4 counter

decrement inputs (clean contact pulse)
Master count reset: Single input to set all counters to their

reset value (clean contact pulse)

Outputs

Alarm outputs: 2 independent voltage free changeover

relays (2A, 30V DC) plus 2 open collec-

tor outputs

Pre-alarm outputs: 4 open collector outputs.

Variable Message Signs: RS485 communications port supporting

4 node addresses (4 individual count

values)

Message Signs

Electrical

Supply Voltage: 9 to 24V DC Current Requirement: 250mA @ 12 volts

Physical

Display: 4 or 5 character display (choice of yel-

low or red)
Viewing angle: 20° each side of centre

Housing:

Black powder coated Zintec

Dimensions (mm):

380 x 205 x 120 (W x H x D)

Display adjustments:

4 brightness levels selectable via

NCT100 module

Mounting: Options for mounting directly on a flat

surface or by using brackets (included) to enable tilt and pan adjustment for pole mounting (3" diameter).

Cable Termination: Plug-in screw terminal blocks

Operation (Numeric Display)

Display: -999 to 9999 or 'FULL' and 1 to 9999

Input

Count Bus: RS485 bus from an NCT100 counter

module. Displayed count value is controlled by node setting DIP switches.

Operation (OPEN/FULL Display)

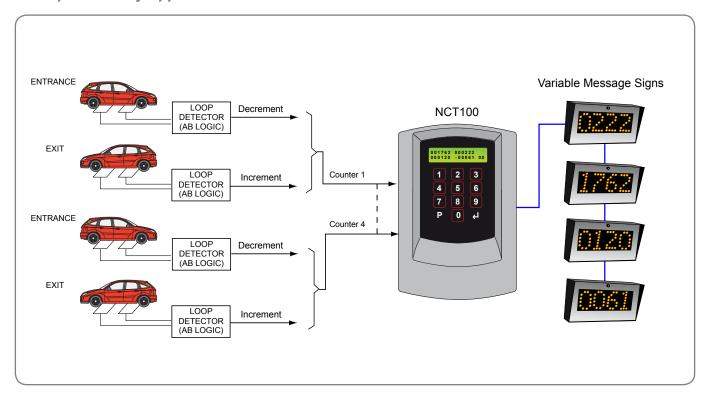
Display: 'SPACE' (count >0) or 'FULL'

Input

Display control: Ground activated input.

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Example Parking Application



Ordering Information

NCT100 4-channel stand-alone counting system with VMS control bus and alarm outputs.

VMS-001-R LED sign with 10cm high characters capable of displaying 4-charcter numeric value or 'FULL' when count = 0 or below. Controlled by NCT200 via RS485 bus. All red LED's.

VMS-001-Y LED sign with 10cm high characters capable of displaying 4-charcter numeric value or 'FULL' when count = 0 or below. Controlled by NCT200 via RS485 bus. All yellow LED's.

VMS-005-R LED sign with 10cm high characters capable of displaying 'SPACE' or 'FULL' under relay/switch control. All red LED's

VMS-005-Y LED sign with 10cm high characters capable of displaying 'SPACE' or 'FULL' under relay/switch control. All yellow LED's