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Sensor Intelligence.

# DIS-IPDTACCR0000

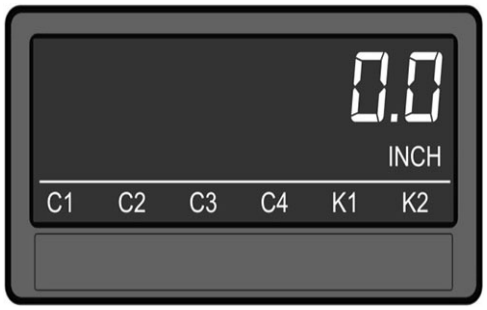
**QUICKSTART** en



## 1 Wiring of the display

| Counter | VCC | NCV50 M12 8 pin | Standard incremental encoder M12 8 pin | Standard Incremental encoder M23 12 pin | |
|---|---|---|---|---|---|
| 1: GND | x | | | | |
| 2: 24 V | x | PIN 8, red | | | Encoder current > 250 mA |
| 3: GND | | PIN 7, blue | PIN 7, blue | PIN 10, blue | |
| 4: Aux. Out | | | PIN 8, red | PIN 12, red | Encoder currrent max 250 mA |
| 5: Input A | | PIN 2, white | PIN 2, white | PIN 5, white | |
| 6: Input A/ | | PIN 1, brown | PIN 1, brown | PIN 6, brown | |
| 7: Input B | | PIN 4, pink | PIN 4, pink | PIN 8, pink | |
| 8: Input B/ | | PIN 3, black | PIN 3, black | PIN 1, black | |

## 2 How to operate the touchscreen




**Start setup procedure:**
To edit the parameters,
press the touchscreen for 3 seconds.


**Menu selection:**
Select the parameter menu via arrow buttons and confirm with “OK”.
The menu selection can be terminated with „C“.


**Parameter selection:**
Select the parameter via arrow buttons and confirm with „OK“.
The parameter selection can be terminated with „C“.


**Parameter editing:**
Edit the parameter via arrow button up and down, shift cursor via left and right and save with „OK“.
The parameter editing can be terminated with „C“.

Parameter changes becomes active only after closing the menu selection.
Factory settings can be enabled in General menu – Factory settings.

## 3 Most used settings

| This parameter | Menu | Setting for | | |
|---|---|---|---|---|
| | | SPEETEC res 0,1 mm Measuring Wheel Encoders 2000 INC, C[1] = 200 mm[2] | SPEETEC res 4 µm | Rotary Incremental encoder |
| | GENERAL MENU | | | |
| Specifies the selected measuring function | OPERATIONAL MODE | A/B 90x4 | | A/B 90x1 |
| Determines the characteristics of the pulse input | ENCODER PROPERTIES | RS422 | | RS422 |
| Defines the voltage of the auxiliary supply output | ENCODER SUPPLY | 24V DC | | Encoder Supply 5V 5V DC Encoder Supply 10...30V 24V DC |
| | SPEED A SETTINGS | | | |
| Reference frequency for the desired DISPLAY VALUE | DISPLAY VALUE | 00000.010 | 00000.040 | 0000060.0 |
| Desired value, which should be displayed at the setting of BASE FREQUENCY | BASE FREQUENCY | 000100 | 010000 | Equal to encoder resolution Encoder 1024 INC = 1024 Hz |
| Defines the position of the decimal point | DECIMAL POINT | 00000.000 | | 0000000.0 |
| Defines the required engineering unit | SCALE UNIT | m/s | | rpm |
| | COUNTER A SETTINGS | | | |
| Scaling factor for channel A | FACTOR | 01.00000 | 04.00000 | 01.00000 |
| Defines the position of the decimal point | DECIMAL POINT | 0000000.0 | 00000.000 | No |
| Defines the required engineering unit | SCALE UNIT | mm | | INC |

1) Circumference measuring wheel

2) $$\frac{\text{mm}}{\text{increment}} = \frac{\text{Circumference of Measuring wheel [mm]}}{\text{Number of increments}}$$

$$\frac{\text{mm}}{\text{increment}} = \frac{200\ \text{mm}}{2000\ \text{increments}} = 0{,}1\ \text{mm/increment}$$

**NOTE**
The listed settings represent only those that differ from the default value. All other settings remain at default. Factory settings can be enabled in General menu – Factory settings.

## 4 Annex

### 4.1 Conformities and certificates

You can obtain declarations of conformity, certificates, and the current operating instructions for the product at www.sick.com. To do so, enter the product part number in the search field (part number: see the entry in the “P/N” or “Ident. no.” field on the type label).