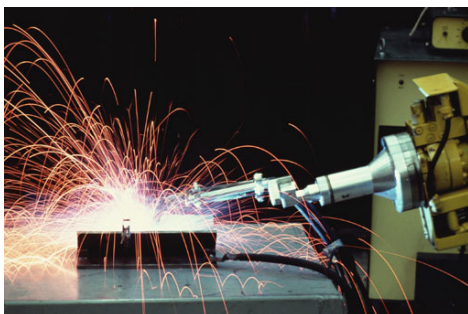


## Display for incremental sensors



# DSE-T7

- ❑ for industrial applications
- ❑ 8 digit display
- ❑ 2 programmable outputs
- ❑ multiplier
- ❑ velocity measurement
- ❑ non-volatile EEPROM memory



## General

The **DSE-T7** is a multi-purpose display for incremental encoders with a 90° shifted output signal. Encoders with 5V output as well as 24V output can be connected. This high tech display has two programmable outputs. Using 4 presets the outputs may be programmed for different situations. Several parameters are programmable to adjust the display to your specific needs. The parameters and presets are stored in a non-volatile EEPROM memory. The actual position can also be stored in this memory.

Four front-panel keys ensure easy programming. The display, including the front-panel, are designed for heavy industrial applications.



## Functions

### Edge evaluation

The number of edges to count: x1, x2 or x4.

### Multiplicator

Using the multiplicator it is possible to adjust the displayed value. This feature makes it easy to work with millimeters, centimeters, inches, degrees etc.

### Decimal point

The decimal point makes it even easier to read the display. The position of the decimal point can be programmed.

### Preset

The function 'preset' is used to preset the counter to a programmed value.

### Disable programming mode

With a specific parameter it is possible to deny others access to the programming mode.

### Store

If a high signal is detected on the input "store", the displayed value will not be refreshed.

### Outputs

The two outputs can be programmed as:

- ☐ Range signal.
- ☐ Limit switch.
- ☐ Time pulse.

### Hold-reset

This is a special function: the displayed value will only be refreshed after a rising edge on the input "reset". At the same time the counter is set to zero.

This function can be used for measuring circumference.

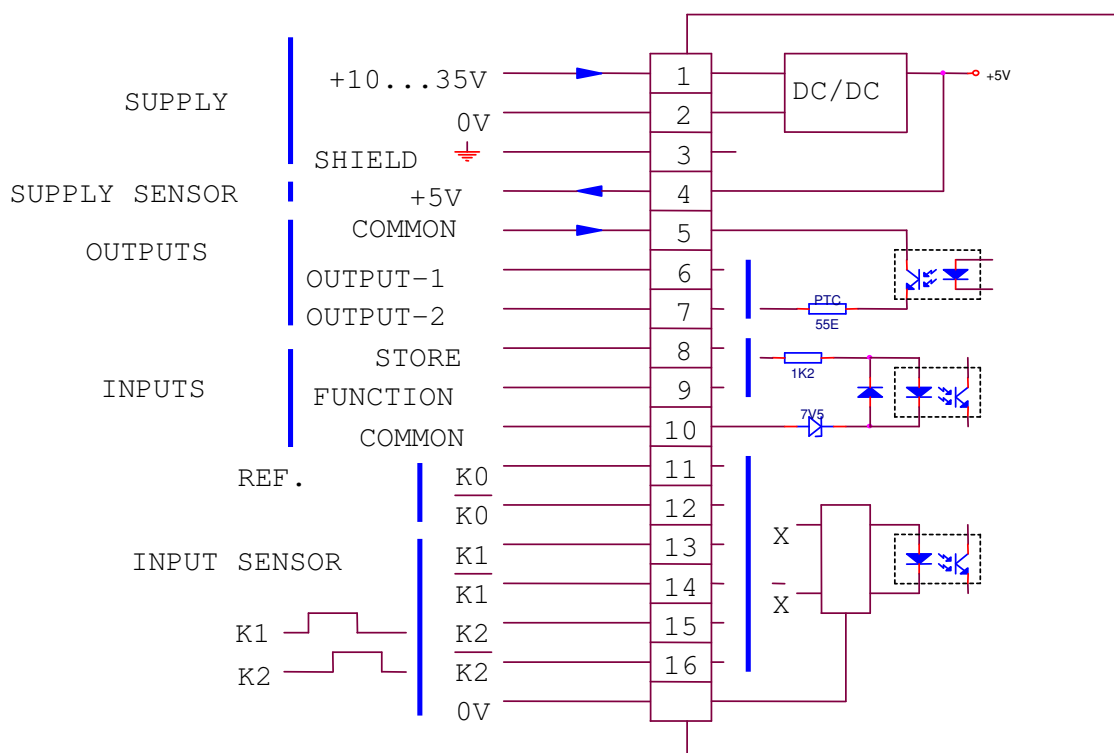
### Velocity measurement

It is possible to program the DSE-T7 for velocity measurement.

## Technical specifications

Supply voltage	10..35 VDC (min. 16VDC to store position in a power loss situation)
Current drain	< 150 mA
Counter input	Optically isolated
Level	Low (5V): 0..+0,8V
	High (5V): +2,8..+5V
	Low (24V): 0..+5V
	High (24V): +10..+35V
Voltage output	5V max. 350 mA
Resistance	App. 3kOhm at 24V ; app. 0,35 kOhm at 5V
Inputfrequency	Max. 150 kHz
Pulse width K0	Min. 2µs
Store, function-input	Optically isolated; low 0..+5V ; high +10..+35V
Resistance	App. 1,8 kOhm at 24V
Output 1,2	Optically isolated, NPN transistor, open emitter with PTC
I <sub>max</sub>	50 mA
Supply voltage	Max. 35 V
Output voltage	Supply – 3,50 V (at 50mA)
	Supply – 2V (at 20mA)
Count range	–9999999..9999999
Cycle time	1 ms
Datamemory	EEPROM
Display	8 digit 7-segment red LED; 14mm high
Operating temperature	0..50 °C
Weight	< 500 gram
Protection	Front IP50, with protective cover IP54 ; Rear IP20

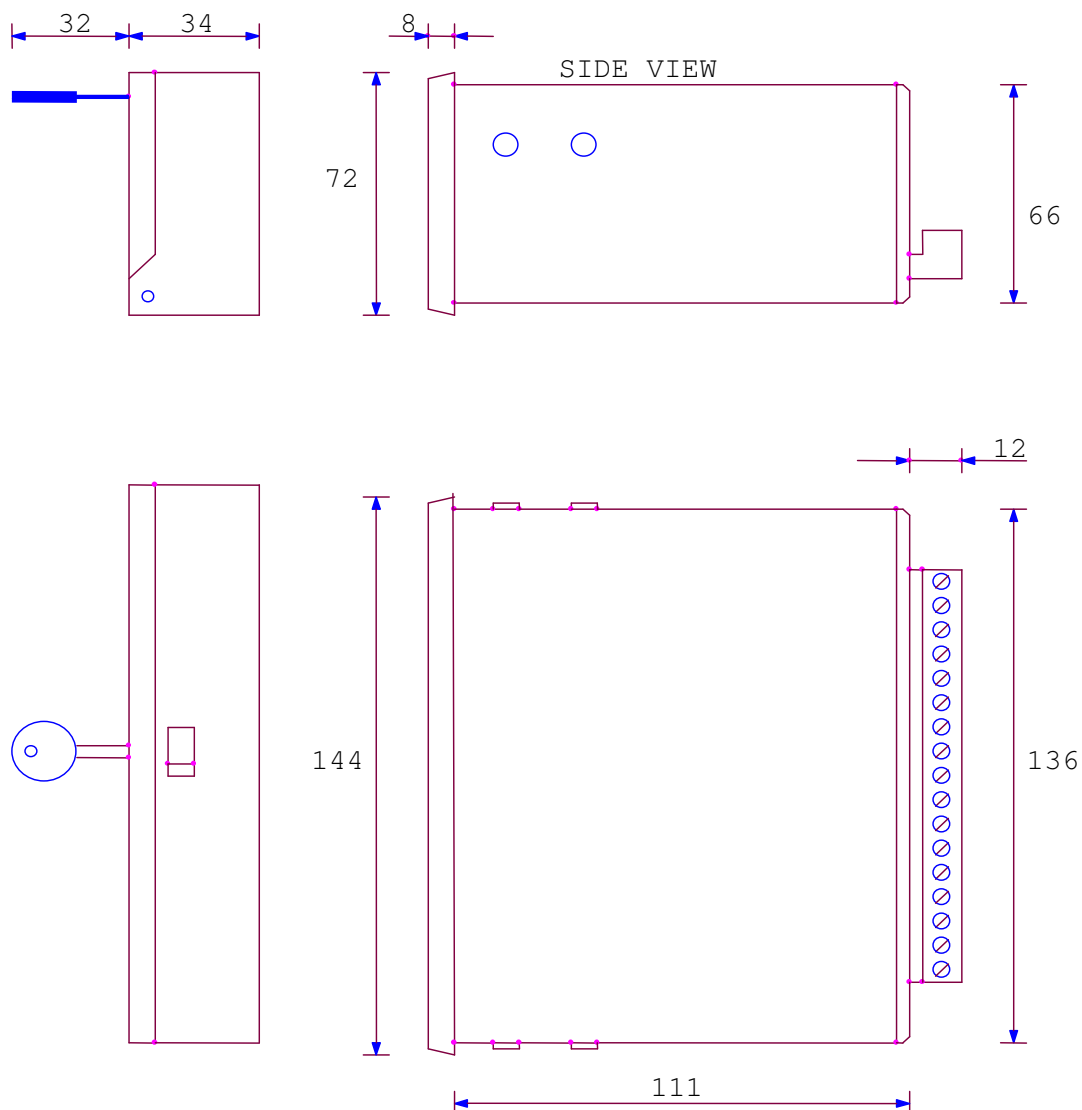
## Connections



It is possible to connect an encoder with a 5V output as well as a 24V output.

## Sizes

OPTION  
PROTECTIVE COVER



## Ordering Guide

Standard : **DSE-T7**  
Option protective cover : **CDS-B**

Connectors are included.

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