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# Type 633-DC

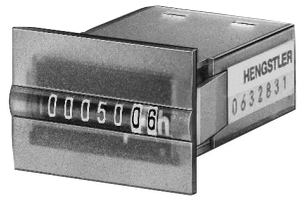
# Time Counters mini "h", DC Version




Type 633.0




Type 633.7



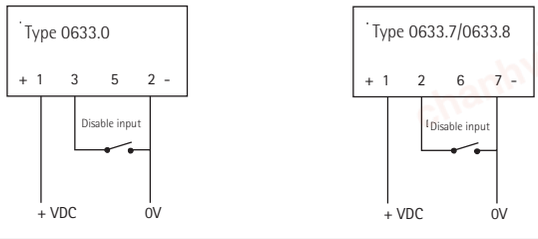

Type 633.8

- High shock resistance
- Miniature dimensions
- Low power consumption
- Electrical connections in standard grid
- Suitable for PCB mounting
- Machine-solderable and washable versions available
- Protection class IP 65

## TECHNICAL DATA

| | |
|---|---|
| Display | 7-digit, 0 ... 99 999.99 h |
| Digit height | 4 mm, visual |
| Supply voltage Vop | acc. to order information, tolerance + 10 % |
| Power consumption | approx. 30 mW |
| Residual ripple | < 1 % |
| Operating temperature | - 10 ... + 60 °C |
| Storage temperature | - 40 ... + 70 °C |
| El. connection | versions .0 solder pins, .7 and .8 wiring posts ∅ 0.6 mm |
| Mounting | versions .0 on PCB, .7 with wiring posts, .8 with catch spring |
| Mounting position | horizontal figure wheel shaft |
| Protection class (DIN 4050) | IP 66, versions .7 and .8 only at front, connections IP 00 |
| Vibrostability | 30 m/s² (10 - 500 Hz) acc. to IEC 068-2-6 |
| Shock stability | > 3500 m/s² acc. to IEC 068-2-27 |
| General design | acc. to DIN VDE 0700; insulation group C (VDE 0110), protection class II |
| Weight | approx. 10 g |
| Time error | with disable per switching cycle 0.488 ms |
| Reset | none |

## CONNECTION DIAGRAM



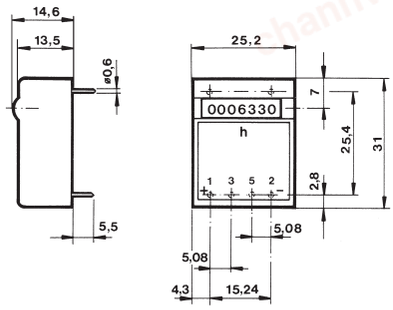

Activation: The counter is connected to 0 V and + VDC.
The counter is switched off by connecting Pin 2 with Pin 7 or Pin 3.

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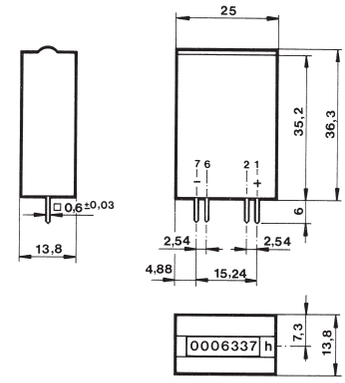
# Technical data Type 633-DC

## DIMENSIONS

### Type 633.0

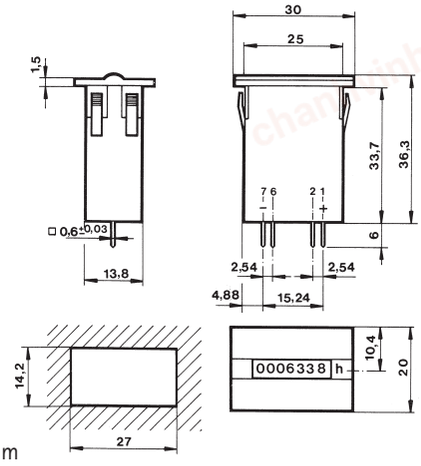



Dimensions in mm




Dimensions in mm

### Typ 633.8




Dimensions in mm

## ORDER INFORMATION

### Counter

| Voltage | Ohm | Current consumption during pulse | Type 633.0 Ord. code | Type 633.7 Ord. code | Type 633.8 Ord. code |
|---|---|---|---|---|---|
| 5 VDC | 140 | 35 mA | 0 633 031 | 0 633 731 | 0 633 831 |
| 12 VDC | 720 | 17 mA | 0 633 032 | 0 633 732 | 0 633 832 |
| 24 VDC | 1140 | 9 mA | 0 633 033 | 0 633 733 | 0 633 833 |

### Accessories

| | | |
|---|---|---|
| Flying lead 150 mm red | 1 634 008 | 1 634 008 |
| Flying lead 150 mm black | 1 634 007 | 1 634 007 |

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# Type 633-DC

# Miniature Time Counter
## for 35 mm DIN Rail Attachment

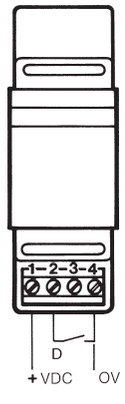



- Miniature size
- Low power consumption
- Screw terminal connection
- Suitable for switch cabinet installation
- Snap-on attachment for 35 mm DIN rail

## TECHNICAL DATA

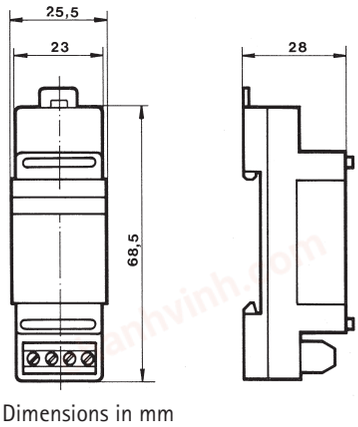
| | | |
|---|---|---|
| Display | 7-digit, 0 ... 99999.99 h | |
| Digit height | 4 mm, visual | |
| Supply voltage $V_{op}$ | acc. to order information, tolerance + 10 % | |
| Current consumption | during pulse | voltage |
| | 35 mA | 5 VDC |
| | 17 mA | 12 VDC |
| | 9 mA | 24 VDC |
| Residual ripple | < 1 % | |
| Operating temperature | 0 ... + 60 °C | |
| Storage temperature | - 40 ... + 70 °C | |
| Protection class (DIN 4050) | IP 10 | |
| Vibrostability | 30 m/s² (10 - 500 Hz) acc. to IEC 068-2-6 | |
| Shock stability | > 3500 m/s² acc. to IEC 068-2-27 | |
| General design | acc. to DIN VDE 0700; insulation group C (VDE 0110), protection class II | |
| Weight | approx. 40 g | |
| Time error | with disable 0.488 ms per switching cycle | |
| Reset | none | |

## CONNECTION DIAGRAM
## DIMENSIONS




connection
without
disable
1 = + VDC
2 = 0V

with disable
1 = + VDC
4 = 0V
2 = disable




Dimensions in mm

## ORDER INFORMATION

| | |
|---|---|
| Time counter for supply voltage 5 VDC | 0 633 531 |
| Time counter for supply voltage 12 VDC | 0 633 532 |
| Time counter for supply voltage 24 VDC | 0 633 533 |

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# Time Counter mini "h", Type 633-AC

## AC Version

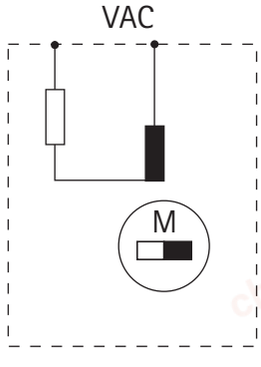



- Miniature dimensions
- Low power consumption
- Quiet operation
- Protection class IP 65

### TECHNICAL DATA

| | |
|---|---|
| Display | 6-digit, 0 ... 99999.9 h |
| Digit height | 4 mm, visual |
| Supply voltage Vop | acc. to order information, tolerance + 10 % |
| Power consumption | 24 V 0.08 VA, 115 V 0.56 VA, 220 V 1 VA |
| Operating temperature | - 10 ... + 50 °C |
| Storage temperature | - 25 ... + 70 °C |
| Humidity | 75 %, without condensation |
| El. connection | depending on version<br>screw terminal connection for cables up to 2.5 mm²<br>or 250 mm long connecting cable, AWG 28<br>or AMP 2.8 x 0.8 mm |
| Mounting | with clamping frame |
| Mounting position | horizontal figure wheel shaft |
| Protection class (DIN 4050) | Version .8: front IP 66, connections IP 40 (touchproof) |
| Vibrostability | 30 m/s² (10 - 500 Hz) acc. to IEC 068-2-6 |
| Shock stability | 800 m/s² (6 ms) acc. to IEC 068-2-27 |
| General design | acc. to DIN VDE 0700; insulation group C (VDE 0110), protection class II |
| Noise level | approx. 40 dB (distance 25 cm) |
| Reset | none |

### CONNECTION DIAGRAM

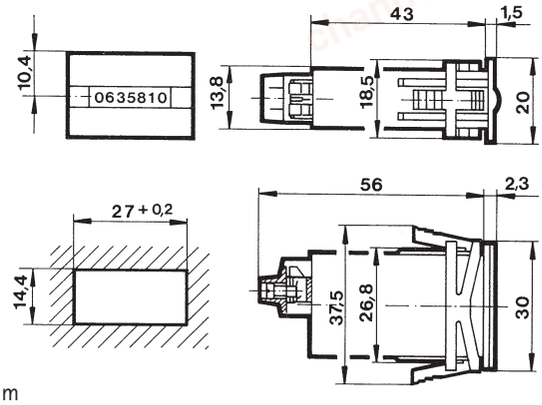


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# Type 633-AC

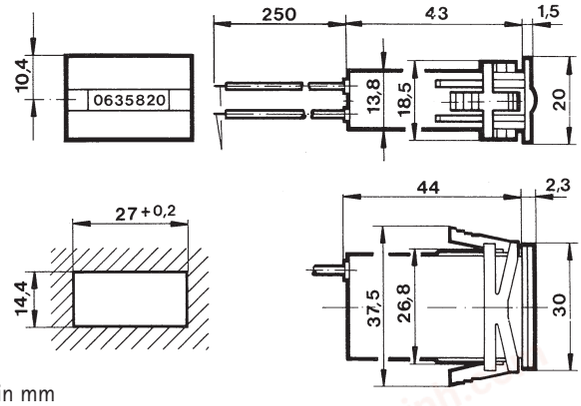
## Technical data

### DIMENSIONS
Screw terminals



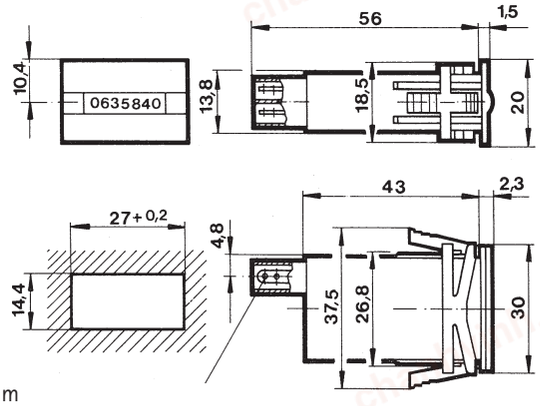

Dimensions in mm

### Connecting cable




Dimensions in mm

### AMP connector




Dimensions in mm

### ORDER INFORMATION

| Voltage | Screw terminals | Connecting cable |
|---|---|---|
| **Counter** | | |
| 24 V 50 Hz | 0 633 811 | 0 633 821 |
| 115 V 50 Hz | 0 633 813 | 0 633 823 |
| 115 V 60 Hz | 0 633 814 | 0 633 824 |
| 220 V 50 Hz | 0 633 815 | 0 633 825 |

Other voltages on request

**Accessories**

panel frame 24x36 mm (insert dimensions 22 x 36 mm) Ordering code 1 405 674