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# Totalizing Counters „mini-i“ Type 634/635

## Type 634: Counter with high immunity against magnetic interfere
## Type 635: Counter with high shock stability







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



## TECHNICAL DATA

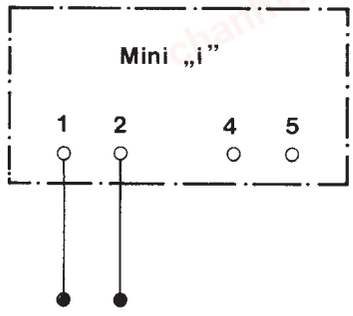
| | |
|---|---|
| Display | 6 or 7-digit, depending on version |
| Digit height | 4 mm, visual |
| Supply voltage $V_{op}$ | according to order information, tolerance + -10 % |
| Power consumption | Type 634 : approx. 50 mW ... 440 mW according Version<br>Type 635 : 5...12 VDC 80 mW<br>24 VDC 160 mW |
| Operating temperatur | – 10 ... + 50 °C |
| Storage temperatur | – 40 ... + 85 °C |
| El. connection | Versions .1 and .3 with solder pins, .7 and .8 with wiring posts ∅ 0.6 mm, cable length <30m (only Typ 634) |
| Mounting | Versions .1 and .3 on PCB's, .7 with wiring posts,<br>.8 with locating spring |
| Mounting position | horizontal |
| Protection class (EN 60529 ) | Type .1 and .3 IP 65 Housing, IP 00 Connections<br>Type .7 and .8 IP 66 Front, IP 00 Connections<br>Type 8 IP 40 Front in Frontpanel |
| Vibrostability | Type 634 : 20 $m/s^2$ (10...500 Hz) acc. to IEC 068-2-6<br>Type 635 : 30 $m/s^2$ (10...500 Hz) acc. to IEC 068-2-6 |
| Shock stability | Type 634 : 2000 $m/s^2$ acc. to IEC 068-2-27<br>Type 634 : 3500 $m/s^2$ acc. to IEC 068-2-27 |
| General design | according EN 61010-1, EN 50178 |
| Contamination Level | 2 |
| Protection | according to class II |
| Overvoltage category | II |
| Susceptibility to magnetic interference | Type 634<br>at 100 kA/m (PTB) no effect |
| Maintenancefree operation | 10 million pulses |
| Duty cycle at 25 °C | 100 % |
| Weight | approx. 10 g |
| Pulse length min. | 50 ms |
| Counting frequency max. | 10 Hz |
| Reset | none |

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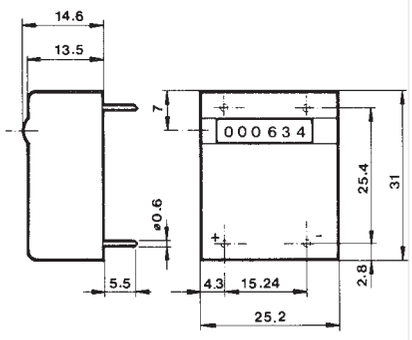
# Type 634/635

## Technical data

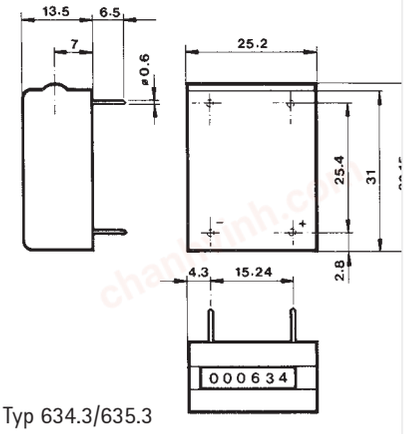
### CONNECTION DIAGRAM



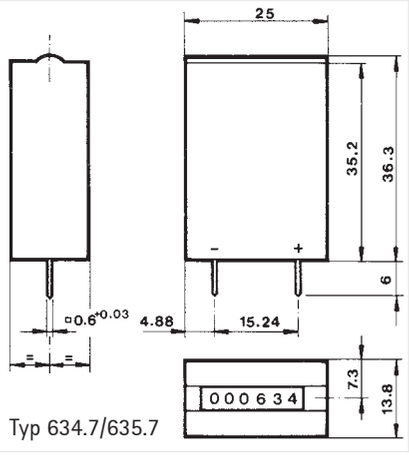

### DIMENSIONS



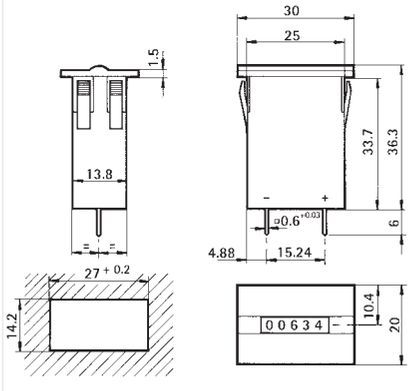

Typ 634.1/635.1




Typ 634.3/635.3




Typ 634.7/635.7




Typ 634.8/635.8

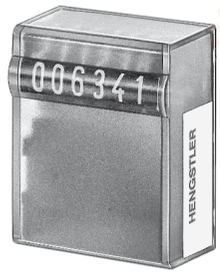
Dimensions in mm

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# Technical data Type 634/635

## ORDER INFORMATION

### Type 634




### Type 634









| 6-digits | | 634.1 | 634.3 | 634.7 | 634.8 |
|---|---|---|---|---|---|
| Voltage | Ω | Ordering code | Ordering code | Ordering code | Ordering code |
| 5 VDC | 335 Ω | 0 634 132 | 0 634 332 | 0 634 712 | 0 634 812 |
| 12 VDC | 335 Ω | | | | |
| | + RV 330Ω[1] | 0 634 128 | 0 634 328 | 0 634 708 | 0 634 808 |
| 24 VDC | 335 Ω | | | | |
| | + RV 1KΩ[1] | 0 634 130 | 0 634 330 | 0 634 710 | 0 634 810 |

| 7-digits | | 634.1 | 634.3 | 634.7 | 634.8 |
|---|---|---|---|---|---|
| Voltage | Ω | Ordering code | Ordering code | Ordering code | Ordering code |
| 5 VDC | 335 Ω | | 0 634 667 | 0 634 630 | |
| 12 VDC | 335 Ω | | | | |
| | + RV 330 Ω[1] | 0 634 631 | | 0 634 714 | |
| 24 VDC | 335 Ω | | | | |
| | + RV 1KΩ[1] | 0 634 673 | | 0 634 713 | |

| 6-digits | | 635.1 | 635.3 | 635.7 | 635.8 |
|---|---|---|---|---|---|
| Voltage | Ω | Ordering code | Ordering code | Ordering code | Ordering code |
| 5 VDC | 320 Ω | 0 635 132 | 0 635 332 | 0 635 712 | 0 635 812 |
| 12 VDC | 1860 Ω | 0 635 128 | 0 635 328 | 0 635 708 | 0 635 808 |
| 24 VDC | 3720 Ω | 0 635 130 | 0 635 330 | 0 635 710 | 0 635 810 |
| Connection leads 150 mm | | | red | 1 634 008 | 1 634 008 |
| | | | black | 1 634 007 | 1 634 007 |

| 7-digits | | 635.1 | 635.3 | 635.7 | 635.8 |
|---|---|---|---|---|---|
| Voltage | Ω | Ordering code | Ordering code | Ordering code | Ordering code |
| 5 VDC | 320 Ω | 0 635 603 | 0 635 623 | 0 635 637 | 0 635 639 |
| 12 VDC | 1860 Ω | 0 635 640 | | 0 635 652 | 0 635 630 |
| 24 VDC | 3720 Ω | 0 635 684 | 0 635 621 | 0 635 650 | 0 635 609 |
| Connection leads 150 mm | | | red | 1 634 008 | 1 634 008 |
| | | | black | 1 634 007 | 1 634 007 |

Inquire for optional mounting position and further voltages
[1] RV internal

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# Type 635

# „mini-iw"
## for AC Voltage

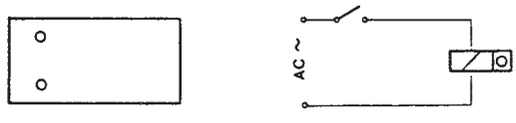



- Miniature size
- Low power consumption
- Simple installation
- Protection class IP 65

## TECHNICAL DATA

| | |
|---|---|
| Display | 6-digit |
| Digit height | 4 mm, visual |
| Supply voltage $V_{op}$ | according to order information, tolerance +– 10 %, |
| Power consumption | at 24 VAC: 85 mW, at 115 VAC: 310 mW, at 230 VAC: 600 mW |
| Operating temperature | – 10 ... + 50 °C |
| Storage temperature | – 40 ... + 85 °C |
| El. connection | screw connection |
| Mounting | with clamping frame |
| Mounting position | horizontal |
| Protection class (EN 60529) | IP 65 Frontside, IP 00 Connections<br>IP 40 Front in Frontpanel |
| 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 | according EN 61010-1, EN 50178 |
| Contamination Level | 2 |
| Protection | according to class II |
| Overvoltage category | II |
| Maintenance-free operation | 10 million pulses |
| Duty cycle at 25 °C | 100 % |
| Weight | approx. 20 g |
| Count input | adding |
| Pulse length min. | 50 ms |
| Counting frequency | 10 Hz |
| Pulse duty factor | 1:1 |
| Reset | none |

## CONNECTION DIAGRAM

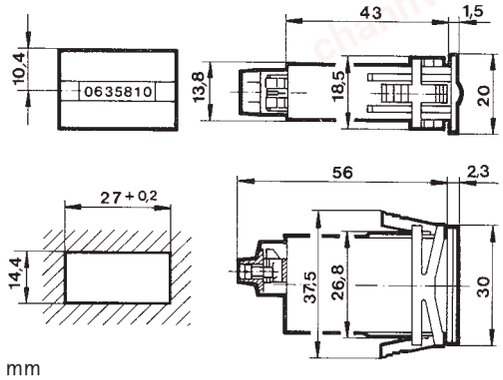


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# Technical data Type 635



## DIMENSIONS
Clamping terminal connection




Dimensions in mm

## ORDER INFORMATION

| | Coil | Screw terminals | Connection cable | AMP-Connector |
|---|---|---|---|---|
| Voltage | Ω | | | |
| 24 VAC | 6,8 k Ω | 0 635 811 | 0 635 821 | 0 635 841 |
| 115 VAC | 6,8 k Ω+ RV 25 kΩ | 0 635 813 | 0 635 823 | 0 635 843 |
| 230 VAC | 6,8 k Ω+ RV 66 kΩ | 0 635 815 | 0 635 825 | 0 635 845 |

| | |
|---|---|
| Panel Frame 24 x 36 (assembly dimension 22 x 33) Ordering code | 1 405 674 |

Inquire for other versions

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# Type 635

# for DIN-Rail Attachment

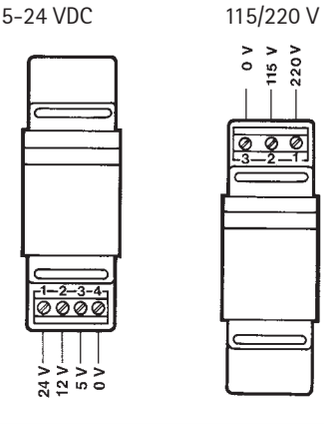


- DIN rail attachment
- Wide voltage range
- Screw terminal connection
- No reset

## TECHNICAL DATA

| | |
|---|---|
| Display | 6 or 7-digit, depending on version |
| Digit height | 4 mm, visual |
| Supply voltage $V_{op}$ | 5, 12, 24 VDC or 115/220 VDC/VAC, dep. on version<br>DC version ±10 %, 230 VAC +6 –10 % |
| Power consumption | 80 mW on 5 VDC, 200 mW on 12 VDC, 400 mW on 24 VDC,<br>350 mW on 115 VAC, 665 mW on 220 VAC |
| Max. residual ripple | DC operation: 48 % |
| Operating temperature | – 10 ... + 50 °C |
| Storage temperature | – 40 ... + 85 °C |
| El. connection | screw terminals, max. 2.5 mm² |
| Mounting | 35 mm DIN rail |
| Protection class (IEC 144) | IP 10 |
| Vibrostability | 50 m/s² acc. to IEC 068-2-6 |
| Shock stability | 2000 m/s² (3 ms) acc. to IEC 068-2-27 |
| General design | EN 61010-1, EN 50178; contamination class 2 |
| Duty cycle at 25 °C | 100 % |
| Maintenance-free | $10^7$ pulses |
| Weight | approx. 40 g |
| Count input | adding |
| Pulse length min. | 50 ms |
| Counting frequency max. | 10 Hz |
| Pulse duty factor | 1:1 |
| Reset | none |

## CONNECTION DIAGRAM



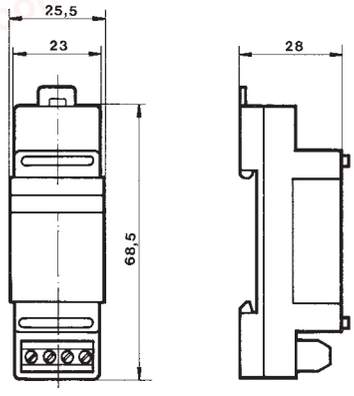
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# Technical data Typ 635

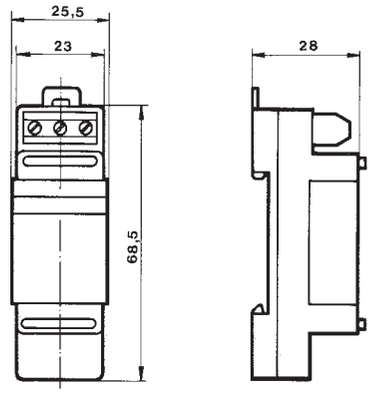


## DIMENSIONS

DC Impuls Counter




AC/DC Impuls Counter




Dimensions in mm

## ORDER INFORMATION

| | 6-digit | 7-digit |
|---|---|---|
| Supply voltage 5, 12 and 24 V DC | 0 635 532 | 0 635 633 |
| Supply voltage 24 V AC | 0 635 541 | |
| Supply voltage 115/230 V DC/V AC | 0 635 550 | 0 635 636 |