

## 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

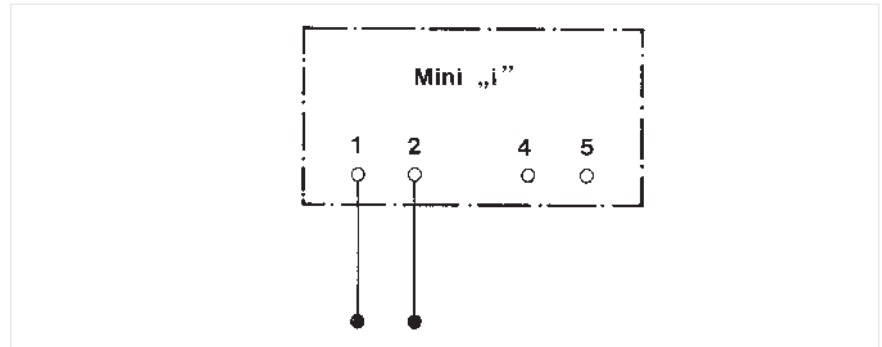
### TECHNICAL DATA

|                                         |                                                                                                                                      |                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Display                                 | 6 or 7-digit, depending on version                                                                                                   |                                  |
| Digit height                            | 4 mm, visual                                                                                                                         |                                  |
| Supply voltage V <sub>op</sub>          | 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 Ø 0.6 mm, cable length <30m (only Typ 634)                          |                                  |
| Mounting                                | Versions .1 and .3 on PCB's, .7 with wiring posts, .8 with locating spring                                                           |                                  |
| Mounting position                       | horizontal                                                                                                                           |                                  |
| Protection class (EN 60529)             | Type .1 and .3                                                                                                                       | IP 65 Housing, IP 00 Connections |
|                                         | Type .7 and .8                                                                                                                       | IP 66 Front, IP 00 Connections   |
|                                         | Type 8                                                                                                                               | IP 40 Front in Frontpanel        |
| Vibro stability                         | Type 634 : 20 m/s <sup>2</sup> (10...500 Hz) acc. to IEC 068-2-6<br>Type 635 : 30 m/s <sup>2</sup> (10...500 Hz) acc. to IEC 068-2-6 |                                  |
| Shock stability                         | Type 634 : 2000 m/s <sup>2</sup> acc. to IEC 068-2-27<br>Type 634 : 3500 m/s <sup>2</sup> 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                                                                                                                                 |                                  |

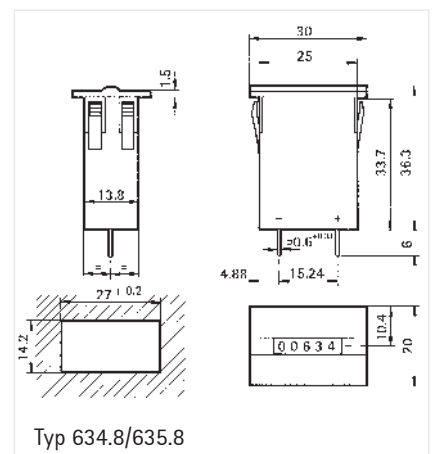
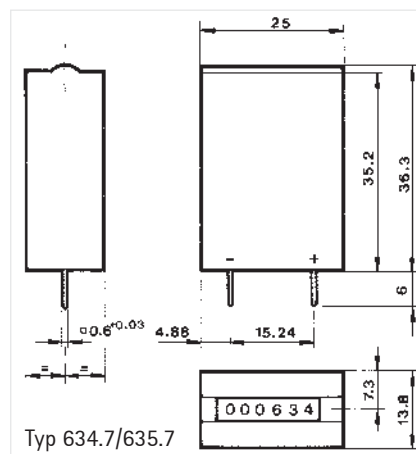
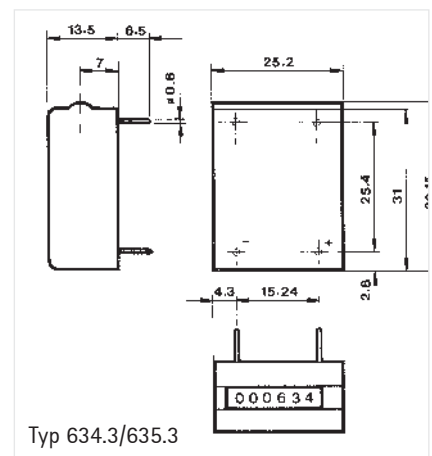
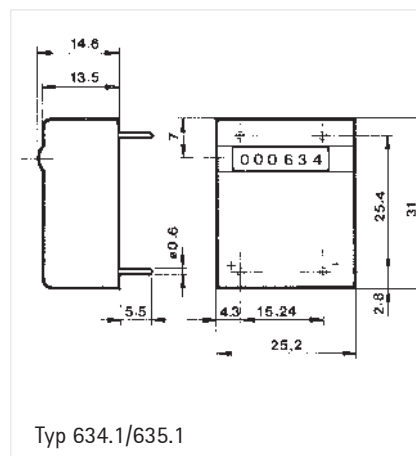
# Type 634/635

## Technical data

### CONNECTION DIAGRAM



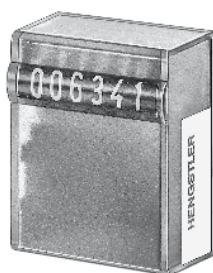
### DIMENSIONS



Dimensions in mm

## ORDER INFORMATION

Type 634



Type 634



## Technical data

## Type 634/635



| 6-digits | 634.1 | 634.3 | 634.7 | 634.8 |
|----------|-------|-------|-------|-------|
|----------|-------|-------|-------|-------|

| Voltage | $\Omega$                                       | Ordering code | Ordering code | Ordering code | Ordering code |
|---------|------------------------------------------------|---------------|---------------|---------------|---------------|
| 5 VDC   | 335 $\Omega$                                   | 0 634 132     | 0 634 332     | 0 634 712     | 0 634 812     |
| 12 VDC  | 335 $\Omega$<br>+ RV 330 $\Omega$ <sup>1</sup> | 0 634 128     | 0 634 328     | 0 634 708     | 0 634 808     |
| 24 VDC  | 335 $\Omega$<br>+ RV 1K $\Omega$ <sup>1</sup>  | 0 634 130     | 0 634 330     | 0 634 710     | 0 634 810     |

| 7-digits | 634.1 | 634.3 | 634.7 | 634.8 |
|----------|-------|-------|-------|-------|
|----------|-------|-------|-------|-------|

| Voltage | $\Omega$                                       | Ordering code | Ordering code | Ordering code | Ordering code |
|---------|------------------------------------------------|---------------|---------------|---------------|---------------|
| 5 VDC   | 335 $\Omega$                                   |               | 0 634 667     | 0 634 630     |               |
| 12 VDC  | 335 $\Omega$<br>+ RV 330 $\Omega$ <sup>1</sup> | 0 634 631     |               | 0 634 714     |               |
| 24 VDC  | 335 $\Omega$<br>+ RV 1K $\Omega$ <sup>1</sup>  | 0 634 673     |               | 0 634 713     |               |

| 6-digits | 635.1 | 635.3 | 635.7 | 635.8 |
|----------|-------|-------|-------|-------|
|----------|-------|-------|-------|-------|

| Voltage | $\Omega$      | Ordering code | Ordering code | Ordering code | Ordering code |
|---------|---------------|---------------|---------------|---------------|---------------|
| 5 VDC   | 320 $\Omega$  | 0 635 132     | 0 635 332     | 0 635 712     | 0 635 812     |
| 12 VDC  | 1860 $\Omega$ | 0 635 128     | 0 635 328     | 0 635 708     | 0 635 808     |
| 24 VDC  | 3720 $\Omega$ | 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 | $\Omega$      | Ordering code | Ordering code | Ordering code | Ordering code |
|---------|---------------|---------------|---------------|---------------|---------------|
| 5 VDC   | 320 $\Omega$  | 0 635 603     | 0 635 623     | 0 635 637     | 0 635 639     |
| 12 VDC  | 1860 $\Omega$ | 0 635 640     |               | 0 635 652     | 0 635 630     |
| 24 VDC  | 3720 $\Omega$ | 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

<sup>1</sup> RV internal

## Type 635



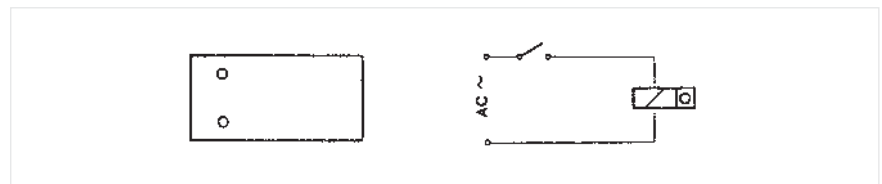
### TECHNICAL DATA

## „mini-iw“ for AC Voltage

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

|                                            |                                                                 |
|--------------------------------------------|-----------------------------------------------------------------|
| Display                                    | 6-digit                                                         |
| Digit height                               | 4 mm, visual                                                    |
| Supply voltage $V_{op}$                    | according to order information, tolerance $\pm 10\%$ ,          |
| Power consumption                          | at 24 VAC: 85 mW, at 115 VAC: 310 mW,<br>at 230 VAC: 600 mW     |
| Operating temperature                      | $-10 \dots +50\text{ }^{\circ}\text{C}$                         |
| Storage temperature                        | $-40 \dots +85\text{ }^{\circ}\text{C}$                         |
| 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                             | $30\text{ m/s}^2$ (10 ... 500 Hz) acc. to IEC 068-2-6           |
| Shock stability                            | $800\text{ m/s}^2$ (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 $25\text{ }^{\circ}\text{C}$ | 100 %                                                           |
| Weight                                     | approx. 20 g                                                    |
| Count input                                | adding                                                          |
| Pulse length min.                          | 50 ms                                                           |
| Counting frequency                         | 10 Hz                                                           |
| Pulse duty factor                          | 1:1                                                             |
| Reset                                      | none                                                            |

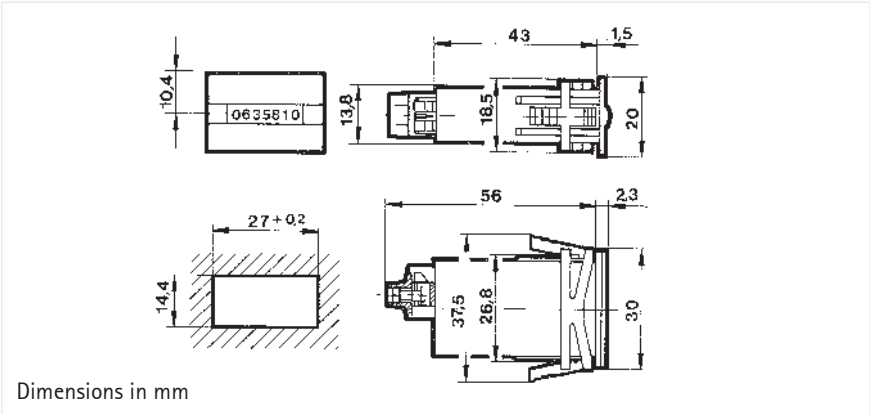
### CONNECTION DIAGRAM



Technical data

Type 635

DIMENSIONS  
Clamping terminal connection



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

Totalizing  
Counters

# Type 635

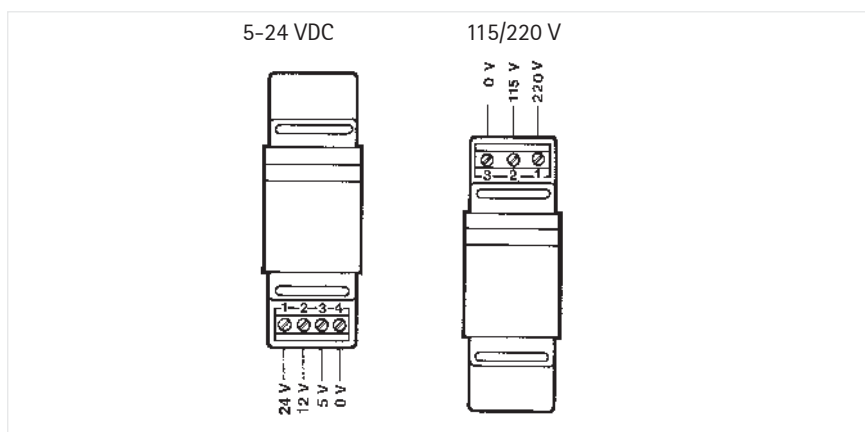


## TECHNICAL DATA

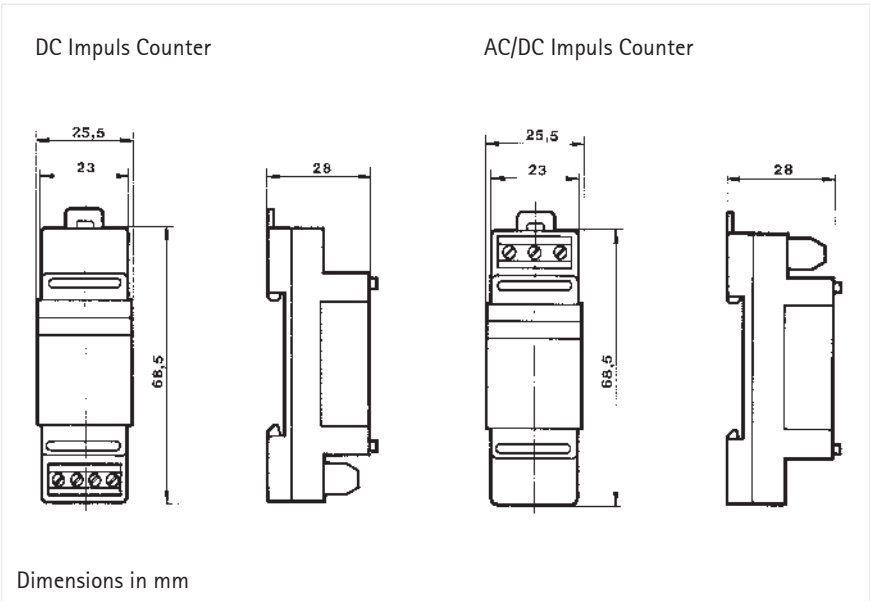
- DIN rail attachment
- Wide voltage range
- Screw terminal connection
- No reset

|                            |                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------|
| 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 $\pm 10\%$ , 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      | $-10 \dots +50\text{ }^{\circ}\text{C}$                                                          |
| Storage temperature        | $-40 \dots +85\text{ }^{\circ}\text{C}$                                                          |
| El. connection             | screw terminals, max. 2.5 mm <sup>2</sup>                                                        |
| Mounting                   | 35 mm DIN rail                                                                                   |
| Protection class (IEC 144) | IP 10                                                                                            |
| Vibro stability            | 50 m/s <sup>2</sup> acc. to IEC 068-2-6                                                          |
| Shock stability            | 2000 m/s <sup>2</sup> (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 <sup>7</sup> 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



DIMENSIONS



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 |