# **HOUR COUNTERS**

#### **BZ48 - HOUR COUNTERS**



- Panel mounting or for snapping on DIN rail according to DIN 50 022
- For alternating voltage and direct voltage
- For mounting of the hours of machines and equipments
- Also available in smaller DIN dimensions

| Technical Data       |  |  |  |  |  |
|----------------------|--|--|--|--|--|
|                      | AC (alternating voltage)   | DC (direct voltage)  |  |  |  |
| Reset                | No   | No   |  |  |  |
| Counting range       | 99999,99 h   | 99999,99 h   |  |  |  |
| Digits               | 1,5x3,5 mm (with loupe 4 mm), white on black,                            | 1,5x3,5 mm (with loupe 4 mm), white on black,                            |  |  |  |
|                      | Decimals black on white  | Decimals black on white  |  |  |  |
| Standard voltages    | 115 or 230 V AC  | 10 - 80 V DC (1,5 - 15 mA)   |  |  |  |
| Special voltages     | 12, 24, 36 - 48 and 400 V AC   | 2 - 20 V DC (0,5 - 27 mA); 80 - 220 V DC ( 1,5 - 4,5 mA)                 |  |  |  |
| Voltage tolerance    | ± 10 %   | -  |  |  |  |
| Frequency            | 50 or 60 Hz (on request 50 and 60 Hz operation)                          | -  |  |  |  |
| Current consumption  | Approx. 10 mA for nominal voltage  | See above  |  |  |  |
| Protection class     | DIN 40050, housing IP 65 (front-side)                                    | DIN 40050, housing IP 65 (front-side)                                    |  |  |  |
|                      | Clamps: IP 20 (Option VBG 4) IP 00 (without VBG 4)                       | Clamps: IP 20 (Voption VBG 4) IP 00 (without VBG 4)                      |  |  |  |
| Testing voltage      | Winding and contact against GND 2500 V / 50 Hz                           | -  |  |  |  |
| Ambient temperature  | - 30 °C up to + 80 °C  | - 30 °C up to + 80 °C  |  |  |  |
| Fixing               | By included mounting clip wall thickness up to 10 mm, or as quick fa-    | By included mounting clip wall thickness up to 10 mm, or as quick fa-    |  |  |  |
|                      | stening with molded catch spring, wall thickness up to 2 mm,             | stening with molded catch spring, wall thickness up to 2 mm,             |  |  |  |
|                      | whereat the panel cut-out should be $45,2^{+0,3} \times 45,2^{+0,3}$ mm. | whereat the panel cut-out should be $45,2^{+0,3} \times 45,2^{+0,3}$ mm. |  |  |  |
| Connection           | Clamps or plug connector, with or without protection against contact     | Clamps or plug connector, short-circuit-proof and battery protected      |  |  |  |
| Approval             | CE, (VDE surcharges), UL and CSA   | CE   |  |  |  |
| Operation indication | Yes  | Yes  |  |  |  |
| Weight               | approx. 46g  | approx. 46g  |  |  |  |

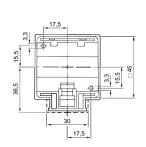
| Versions       |        |             |                    |           |
|----------------|--------|-------------|--------------------|-----------|
| Voltage        | Туре   | Front frame | Connection         | Available |
|                | BZ48   | 48 x 48     | Clamp terminal     | •         |
| AC             | BZ48/1 | 48 x 48     | AMP-Stecker 6,3 mm | •         |
|                | BZ48A  | 48 x 48     | Clamp terminal     | •         |
|                | BZ48   | 48 x 48     | Clamp terminal     | •         |
| DC             | BZ48/1 | 48 x 48     | AMP-Stecker 6,3 mm | 0         |
|                | BZ48A  | 48 x 48     | Clamp terminal     | 0         |
| Bezel for BZ   | •      |             |                    |           |
| Type A (for to | •      |             |                    |           |
| Available      |        |             |                    |           |
| On request     |        |             |                    |           |

### Order information for BZ48

| Order example |              |           |  |  |  |
|---------------|--------------|-----------|--|--|--|
| Product       | Voltage      | Frequency |  |  |  |
| BZ48          | 230 V AC     | 60 Hz     |  |  |  |
| BZ48          | 10 - 80 V DC | -         |  |  |  |
| BZ48/1        | 115 V AC     | 50 Hz     |  |  |  |

## For rail mounting (rail DIN 35 mm DIN 46277)





#### Dimensions (in mm)







