

③ Hour Counters

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, Decimals black on white	1,5x3,5 mm (with loupe 4 mm), white on black, 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) Clamps: IP 20 (Option VBG 4) IP 00 (without VBG 4)	DIN 40050, housing IP 65 (front-side) Clamps: IP 20 (Option 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 fastening with molded catch spring, wall thickness up to 2 mm, whereat the panel cut-out should be 45,2 ^{+0,3} x 45,2 ^{+0,3} mm.	By included mounting clip wall thickness up to 10 mm, or as quick fastening with molded catch spring, wall thickness up to 2 mm, whereat the panel cut-out should be 45,2 ^{+0,3} x 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	Type	Front frame	Connection	Available
AC	BZ48	48 x 48	Clamp terminal	●
	BZ48/1	48 x 48	AMP-Stecker 6,3 mm	●
	BZ48A	48 x 48	Clamp terminal	●
DC	BZ48	48 x 48	Clamp terminal	●
	BZ48/1	48 x 48	AMP-Stecker 6,3 mm	○
	BZ48A	48 x 48	Clamp terminal	○
Bezel for BZ48 as front frame, dimension: 72 x 72 mm				●
Type A (for top hat rail mounting)				●
● Available				
○ On request				

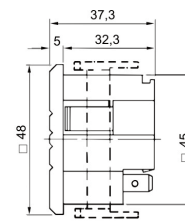
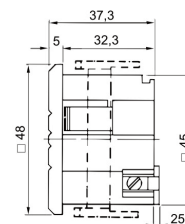
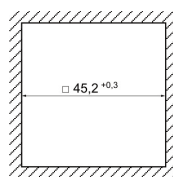
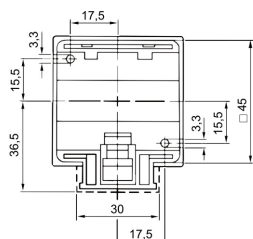
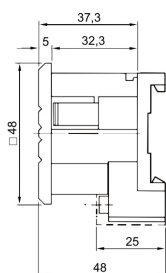
Order information for BZ48

Order example

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

Dimensions (in mm)

For rail mounting (rail DIN 35 mm DIN 46277)



HOUR COUNTERS

BZ72 / BZ96 - HOUR COUNTERS



- Time counter-line with DIN- frame 72 x 72 mm and 96 x 96 mm
- Display minutes or hours
- For AC or DC

Technical Data

	AC (alternating current)	DC (direct voltage)
Reset	No	No
Digits	2 x 4 mm, white on black, decimals black on white	2 x 4 mm, white on black, decimals black on white
Standard voltages	115 or 230 V AC	10 - 50 V DC
Special voltages	12, 24, 42 and 400 V AC	36, 80, 110 V DC
Voltage tolerance	+/- 10%	-
Frequency	50 or 60 Hz	-
Power consumption	approx.. 2 VA	7,5 - 30 mA
Protection class DIN 40050	Housing without reset key: IP52 Housing with reset key: IP41 Clamps: IP00	Housing: IP52 Clamps: IP00
Ambient temperature	-10°C up to +60°C	-10°C up to +60°C
Fixing	Metal holder	Metal holder
Connection	Clamp or plug connection (0,8 x 6,3 mm)	Clamp or plug connection (0,8 x 6,3 mm)
Approval	CE, (UL surcharge)	CE
Protection ag.accid contact (additional costs)	Terminal cover type BZ79 VGB-4- requirement	Terminal cover type BZ79 VGB-4- requirement
Operation indication	Yes	Yes
short-circuit and battery rev.protected	-	Yes
Weight	approx. 115 or 140 g	approx. 120 or 145 g

Versions

Voltage	Type	Front frame	Connection	Available
AC	BZ72	72 x 72	Counting range 99.999,99 h	●
	BZ72/N	72 x 72	dito + key zero position	●
	BZ72/NS	72 x 72	dito + zero position + key	○
AC	BZ96	96 x 96	Counting range 99.999,99 h	●
	BZ96/N	96 x 96	dito + key zero position	●
	BZ96/NS	96 x 96	dito + zero position + key	○
DC	BZ72	72 x 72	Counting range 99.999,99 h	●
	BZ96	96 x 96	Counting range 99.999,99 h	●

● Available

○ On request

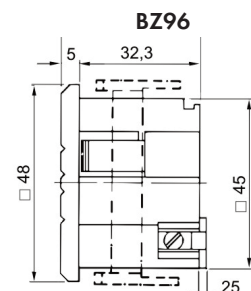
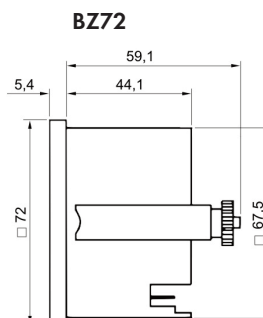
Accessories / Special executions (surcharge)

Order information for BZ72 and BZ96

Order example

Product	Voltage	Frequency
BZ72	10 - 50 V	-
BZ72	24 V	60 Hz
BZ72/N	230 V	50 Hz
BZ96	400 V	50 Hz
BZ96/N	10 - 50 V	-
BZ96/NS	110 V	50 Hz

Dimensions (in mm)





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