

Combination Timer and Pulse Counters



measuring • monitoring • analysing



- Input: pulse and elapsed-hour meter
- Display:
 2 x 7-position, 2 x 8-position
- Housing: 48 x 48 mm, black plastic
- Panel mounting
- Power supply: 10-30 V_{DC}; 115 V_{AC} 60 Hz; 230 V_{AC} 50 Hz



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Model: ZBS-4K



99 999.99 h for AC version 999 999.99 h for DC version

hours: white, decimal places: red,

9 999 999 pulses 10 s-1 (ZBS-4L)

background: black

4 x 1.7 mm optical

-15 to +50°C



Description

The model ZBS-4K(L) KOBOLD timer/counter is both an elapsed-hour meter and a pulse counter. In model ZBS-4K, these two functions operate in parallel; that is, the pulse counter counts the number of times that a device is switched on, and the elapsed-hour meter monitors the overall time that the device is switched on. In model ZBS-4L, both these functions are separate but cannot be run from different sources of power.

The AC version of the elapsed-hour meter has a 7-position display and a fast-running roller with red dashes to indicate movement. It has a self-starting synchronous motor that operates on 50-60 Hz current. The DC version has an 8-position display; the 1/100 h display rotates continuously and increments by 1 number every 36 s. In this model, the display digits are moved by a quartz-crystal-controlled stepper motor. The maximum counting range is up to 9 999 999 pulses.

The meter has a 48 x 48 mm standard housing with a latchtype fastener. For model ZBS-4K, the electrical connection is made by loosening a set screw and inserting a flat connector ($0.8 \times 6.3 \text{ mm}$). The ZBS-4L is connected with two wires.

Application examples

- Monitoring start cycle of heating system furnaces
- Air conditioning systems

Mounting position:	any	
Housing:	black plastic	
Dimensions:	48 x 48 x 38 mm	
Panel cut-out size:	45 x 45 mm	
Electrical connection:	Flat connector 0.8 x 6.3 mm with screw terminals for ZBS-4K 2 x 0.5 m cable for ZBS-4L	
Power supply:	10-30 $V_{\text{DC}};$ 100-130 V_{AC} 60 Hz; 187-264 V_{AC} 50 Hz	
Max. power consumption:	Approx. 1 W at 10-30 V_{DC} Approx. 1.43 VA at 100-130 V_{AC} Approx. 3.0 VA at 187-264 V_{AC}	
Test voltage:	2500 V _{AC} , 50 Hz	
Weight:	approx. 65 g	

IP 52 at front

Dimensions

Protection type:

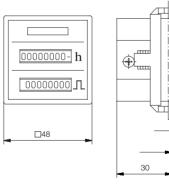
Technical details Maximum display:

Max. pulse frequency:

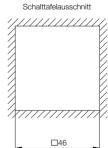
Ambient temperature:

Digits:

Digit size:



schalttafelausschnitt



Ordering details (example: ZBS-4K 0)

Model	Description	Power supply
ZBS-4K	Combination timer and pulse counter	$0 = 230 V_{AC} / 50 Hz$
	Housing 48 x 48 mm	$3 = 10 - 30 V_{DC}$
	Common input	$4 = 115 V_{AC}/60 Hz$
ZBS-4L	Combination timer and pulse counter	
	Housing 48 x 48 mm	
	Separate input	