

SIRAX BM900

Analog Elapsed Time Meter (Hours Run Meter)

Description

The analog elapsed time meter SIRAX BM900 in a plastic housing are suitable for measuring the running time of machines, devices and other devices. They are used to monitor the plant / equipment ON / OFF time, which enables the user to check functions such as monitoring production efficiency, costs and service time. The measuring devices are designed for installation in control panels, machine consoles or mosaic grids up to a panel thickness of no more than 40mm. The time is measured in steps of 0.01 to 99999.99 hours. The counter cannot be reset to prevent accidental resetting.



Technical Data

Mechanical Data

Case details	Moulded square case suitable to be mounted in control / switchgear panels, machine tool consoles or mosaic panels
Material of case	Polycarbonate
Flammability class	UL94 V-0, self-extinguishing, non-dripping, halogen-free
Material of window	Glass
Front frame (bezel)	Polycarbonate black
Position of use	Vertical $\pm 5^\circ$
Mounting	stackable next to each other
Panel thickness	$\leq 40\text{mm}$
Panel fixing	Swivel screw
Connections/terminals	M4 screws and wire clamps form E3

Display

Measurement display	Numeral
Digit height	4 mm
Digit color	Pre-decimal places white on black Decimal places in black on white
Running display	with gear

Electrical Data

Measuring unit	Time in Hours
Counting range	00000.00 ... 99999.99
Input range	AC voltage 100 ... 125 VAC 200 ... 250 VAC 380 ... 440 VAC
Nominal frequency	50 / 60 Hz
External magnetic field	0.5 mT
Perm. Voltage fluctuation	$\pm 20\%$ nominal voltage
Power consumption (burden)	0.75 VA (110 VAC) 1.70 VA (415 VAC)

Reference conditions

Accuracy class	1.5% acc. to DIN EN 60 051
Reference temperature	23 °C / $\pm 2^\circ\text{C}$
Position of use	Nominal position $\pm 1^\circ$
Inputrange	full scale value

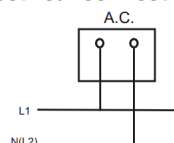
Environmental conditions

Climatic suitability	Climate category 2 acc. to DIN EN 60 051 Climate category 3 acc. to VDE/VDI 3540
Operating temperature	-10 ... +55 °C
Storage temperature	-25 ... +65 °C
Relative humidity	$\leq 75\%$ annual average, non condensation
Shock	150 m/s ² (15g) / 11 ms
Vibration	10 ... 55 ... 10 Hz, 0.15 mm amplitude (correspond to 1.5g at 50 Hz)

Safety

EMC resistance	acc. to EN 61 000-6-2
EMC emission	acc. to EN 61 000-6-4
Safety	acc. to EN 60 010-1
Installation category	600 V CATIII
Pollution degree	2
Rated insulation voltage	660 V
Insulation resistance	> 50 M Ω at 500 V DC
Insulation class	A (acc. to VDE 0110)
Insulation test voltage	2 kV
Housing protection class	IP52 Housing on the front IP00 Connections without contact protection IP20 Connections with contact protection

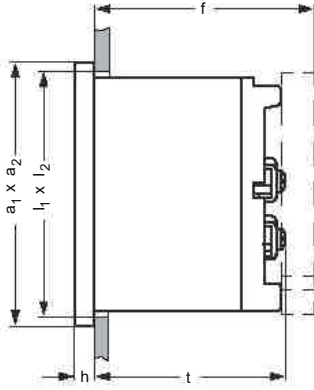
Electrical connections



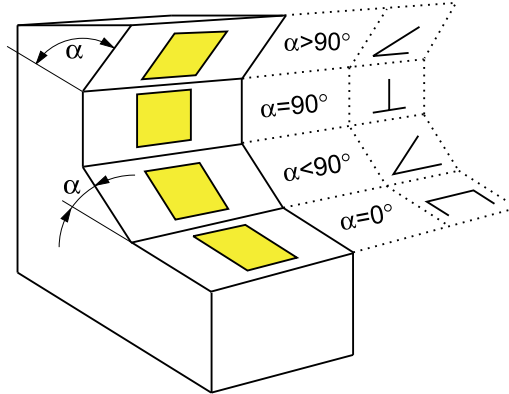
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Dimensions



Working position



Front [mm]	Nominal Dimensions [mm]		Cutout [mm]	Installation depth (t) including terminal [mm]	Installation depth (f) including back cover [mm]
	a ₁ x a ₂	h			
□72	72 x 72	5.5	68 ^{+0.8} x 68 ^{+0.8}	53	64
□96	96 x 96	5.5	92 ^{+0.8} x 92 ^{+0.8}		

Code	Working position	Code	Working position	Code	Working position
A	α = 0°	D	α = 45°	G	α = 90° (vertical)
B	α = 15°	E	α = 60°	H	α = 105°
C	α = 30°	F	α = 75°	I	α = 120°

Order details

Description	Blockingcode	No-go with blockingcode	Article No. / Feature
SIRAX BM900, Analog Elapsed Time Meter			BM900-
Merkmal			
01 Features, Selection			
□72 (72 x 72 mm)			1
□96 (96 x 96 mm)			2
02 Inputrange			
100 ... 125 VAC			1
200 ... 250 VAC			2
380 ... 440 VAC			3
03 Working position			
α = 0°			A
α = 15°			B
α = 30°			C
α = 45°			D
α = 60°			E
α = 75°			F
α = 90° (vertical)			G
α = 105°			H
α = 120°			I

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04	Front window Glass			1
05	Contact protection without back cover			1
	with back cover			2



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