

Hour meters / timers, electromechanical

Standard timers	99999.99 h (AC) / 999999.9 h (DC) without reset	HB 27
------------------------	--	--------------



The timers HB 27 without reset measure time ranges up to max. 99999.99 h (AC) or 999999.9 h (DC).

These panel mount counters can be used in many different fields of application.

Characteristics

- 7-digit hour meter without reset.
- High shock and impact resistance.
- Magnified large figures; height 4.5 mm.
- Data retention in case of power failure.
- Long service life.
- Plug-in versions.
- Counter without front bezel for mounting in front bezel F1B and F2B and for combination in 50 x 25 mm size with socket box 945.2.

Benefits

- Can be combined with preset counters BVa and HVa, and with pulse counter B.
- Can be equipped with various sealing covers to protect the counter against dust, dirt and moisture.
- Tamper-proof.

Applications

General time measurement, maintenance intervals for measuring instruments (respiration units, oxygen, dialysis), small appliances, UV lamps, display panels in vehicles.

Type series

Description	Type	Options
Plug-in for socket box 945.2 945.2 and front bezel F1B	HB 27.00.3	<ul style="list-style-type: none"> • Different voltages / extended temperature range on request • Flat pin 0.8 x 6.3 mm [0.031 x 0.25"] without flat push on connectors: Art. no. 3.208.X11.XXX • Flat pin 0.8 x 2.8 mm [0.031 x 0.11"] with flat push on connectors: Art. no. 3.207.X01.XXX • Round pins ø 1.5 mm (tinned) with push on connectors Art. no. 3.205.X01.XX
Screw mounting 56 x 40 mm [2.20 x 1.57"]	HB 27.10	
Clip mounting 53 x 28 mm [2.09 x 1.10"]	HB 27.20	

Accessories	Dimensions in mm [inch]	Order no.
Front bezel, type F1B plastic	For cut-out 54 x 49 [2.13 x 1.93], with screw mounting, for plug-in counters B1x.0x and HB2x.0x in socket box type 945.2	beige black G007501 G007502
Socket box, type 945.2	For counters B1x.0x and HB2x.0x, can be used for plug-in connections in front bezel F1B	black G008434
Sealing cover, type K1, IP65	For front bezel 60 x 50 [2.36 x 1.97], with screw mounting, for electromechanical counters and via adapter front bezel N003001 for counters 48 x 24 [1.89 x 0.94]	transparent / grey transparent / black G008300 G008301
Transparent cover, lockable, IP65	For cut-out 54 x 29 [2.13 x 1.14], with screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50 x 25 [1.97 x 0.98"] or 45 x 22.2 [1.77 x 0.87]	transparent / black N003002
Blind enclosure, 53 x 28 [2.09 x 1.10]	For cut-out 50 x 25 [1.97 x 0.98], for counters 53 x 28 [2.09 x 1.10]	black T005753
Mounting frame with cut-out 50 x 25 [1.97 x 1.97] via separate adapter also for 45 x 22.2 [1.77 x 0.87]	For snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 53 x 28 [2.09 x 1.10] and via separate adapter (T008180) for counters 48 x 24 [1.89 x 0.94]	chromated G300004
Mounting rail frame SR	For B and HB counters for snap-on mounting on 35 [1.38] top-hat DIN rail	SR 1 for 1x3 B counters SR 2 for 2x3 B counters G300000 G300001

Suitable gaskets, other accessories and installation examples for optional accessories can be found in chapter accessories or in the accessories section under: www.kuebler.com/accessories.

Hour meters / timers, electromechanical

Standard timers	99999.99 h (AC) / 999999.9 h (DC) without reset	HB 27
------------------------	--	--------------

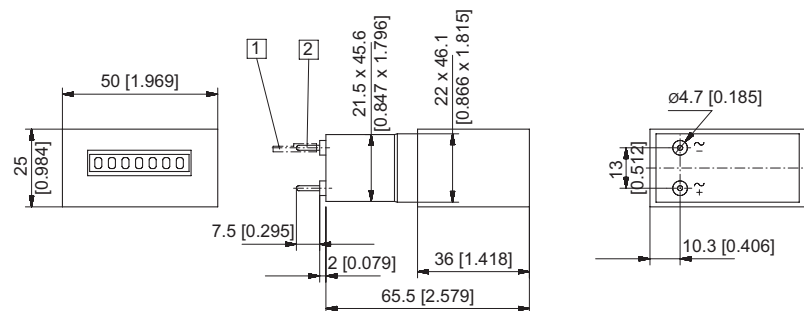
Technical data

General technical data	
Display	7 digits AC 99999.99 h DC 999999.9 h
Height of figures	4.5 mm [0.17"]
Color of figures	white and red on black
Operating temperature	-15°C ... +50°C [+5°F ... +122°F] (non-condensing)
Mounting position	any

Mechanical characteristics	
Protection	up to IP51 (front side) with sealing cover K1 IP54 (front side) with transparent cover Dv, Dvs IP55 (front side)
Housing	plastic PC (Polycarbonate)
Weight	approx. 45 g [1.59 oz]

Electrical characteristics		
Electrical connection	cable	2 x 0.5 mm ² [AWG20], NYFAZ, 0.5 m [1.64'] long AC: grey/grey DC: red +, black - type HB 27.00.3 round pins ø 1.6 mm [0.063"] (plugs into socket box type 945.2)
Test voltage		2000 V AC, 50 Hz for AC counters
Power consumption	10 ... 30 V DC 36 ... 80 V DC 100 ... 130 V DC 20 ... 30 V AC 42 ... 48 V AC 100 ... 130 V AC 187 ... 264 V AC 360 ... 440 V AC	approx. 500 mW approx. 900 mW approx. 750 mW approx. 0.3 VA approx. 0.25 VA approx. 0.6 VA approx. 1.2 VA approx. 1.65 VA
Rated voltages	AC (50 or 60 Hz) DC	20 ... 30 / 42 ... 48 / 100 ... 130 / 187 ... 264 / 360 ... 440 V AC 10 ... 30 / 36 ... 80 / 100 ... 130 V DC
Accuracy	AC DC	supply frequency + 30 ms < 0.003 % (at 24 h)
EMC standards		EN 55011 class B EN 61000-6-2, EN 61000-6-3
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2

Plug-in for socket box 945.2 and front bezel F1B Type HB 27.00.3



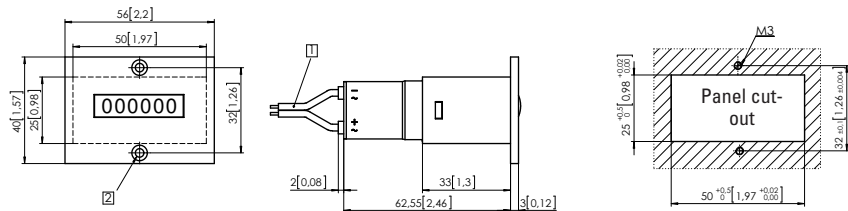
1 Push on connector ø 1.5 [0.059] tinned 2 Round pin ø 1.6 [0.063] tinned

Type	Display	Voltage	Art. no.						
			10 ... 30 V	20 ... 30 V	36 ... 80 V	42 ... 48 V	100 ... 130 V	187 ... 264 V	360 ... 440 V
HB 27.00.3	7 digits	AC (50 Hz)		3.205.001.071		3.205.001.072	3.205.001.074	3.205.001.075	3.205.001.079
	7 digits	AC (60 Hz)		3.205.001.081		3.205.001.082	3.205.001.084	3.205.001.085	3.205.001.089
	7 digits	DC	3.205.001.351		3.205.001.353		3.205.001.381		

Hour meters / timers, electromechanical

Standard timers **99999.99 h (AC) / 999999.9 h (DC) without reset** **HB 27**

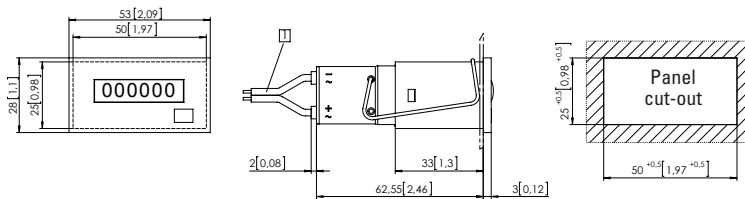
Screw mounting 56 x 40 [2.20 x 1.57]
Type HB 27.10



1) Connection cable, 2 x 0.5 mm² [AWG20], NYFAZ, 0.5 m [1.64'] long 2) Countersinking Af3, DIN 74

Type	Display	Voltage	Art. no.						
			10 ... 30 V	20 ... 30 V	36 ... 80 V	42 ... 48 V	100 ... 130 V	187 ... 264 V	360 ... 440 V
HB 27.10	7 digits	AC (50 Hz)		3.200.101.071		3.200.101.072	3.200.101.074	3.200.101.075	3.200.101.079
	7 digits	AC (60 Hz)		3.200.101.081		3.200.101.082	3.200.101.084	3.200.101.085	3.200.101.089
	7 digits	DC	3.200.101.351		3.200.101.353	3.200.101.381			

Clip mounting 53 x 28 [2.09 x 1.10]
Type HB 27.20



1) Connection cable, 2 x 0.5 mm² [AWG20], NYFAZ, 0.5 m [1.64'] long

Type	Display	Voltage	Art. no.						
			10 ... 30 V	20 ... 30 V	36 ... 80 V	42 ... 48 V	100 ... 130 V	187 ... 264 V	360 ... 440 V
HB 27.20	7 digits	AC (50 Hz)		3.200.201.071		3.200.201.072	3.200.201.074	3.200.201.075	3.200.201.079
	7 digits	AC (60 Hz)		3.200.201.081		3.200.201.082	3.200.201.084	3.200.201.085	3.200.201.089
	7 digits	DC	3.200.201.351		3.200.201.353	3.200.201.381			
Further stock types:			187... 264 V AC, flat pin 0.8 x 2.8 mm [0.031 x 0.11"]				3.207.201.075		

Hour meters / timers, electromechanical

Standard timers	99999.99 h (AC) / 999999.9 h (DC) without reset	HB 27
------------------------	--	--------------

Mounting examples for optional accessories

