Standard timers	99999.99 h (AC) / 999999.9 h (DC) without reset	HB27



The timers HB27 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 counter BVa, 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*
Plug-in for socket box 945.2 and front bezel F1B	**HB27.00.3**
Screw mounting 56 x 40 mm [2.20 x 1.57“]	**HB27.10**
Clip mounting 53 x 28 mm [2.09 x 1.10“]	**HB27.20**

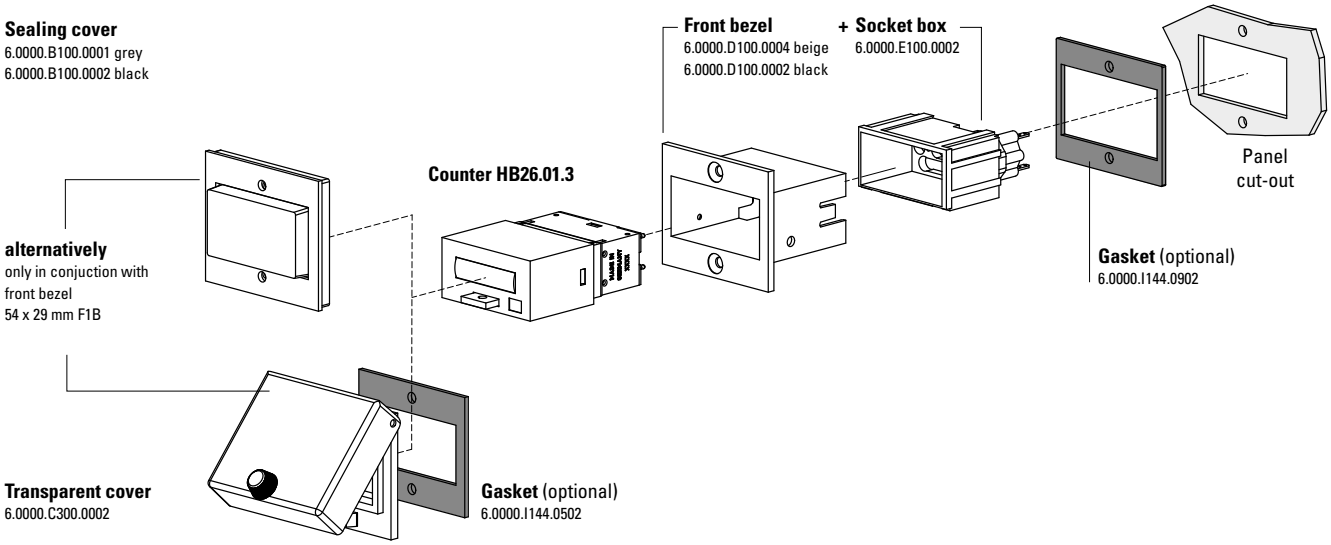
Options

- 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

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Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Front bezel		**F1B**	for 1x counter HB26.01.3 for cut-out 54 x 29 mm [2.13 x 1.14"], (only in conjuction with socket box 6.0000.E100.0002)	beige black	**6.0000.D100.0004** **6.0000.D100.0002**	**6.0000.I144.0902**
		F2B	for 2x counter HB26.01.3 for cut-out 54 x 54 mm [2.13 x 2.13"], (only in conjuction with 2 x socket box 6.0000.E100.0002)	beige black	**6.0000.D200.0004** **6.0000.D200.0002**	**6.0000.I154.1002**
Socket box		**945.2**	for plug-in connection in front bezel F1B	black	**6.0000.E100.0002**	–
Sealing cover IP65		**K1**	for counter HB26.01.3 in conjuction with front bezel F1B	transp. /grey transp. /black	**6.0000.B100.0001** **6.0000.B100.0002**	–
		K2	only in conjuction with front bezel F2B (for 2x counter HB26.01.3)	transp. /grey transp. /black	**6.0000.B200.0001** **6.0000.B200.0002**	
Transparent cover IP65		**1 Dv**	cover lockable for counter HB26.01.3 in conjuction with front bezel F1B	transp. /black	**6.0000.C300.0002**	**6.0000.I144.0502**
		2 Dv	cover lockable only in conjuction with front bezel F2B	transp. /black	**6.0000.C100.0002**	
		2 Dvs	cover key lockable only in conjuction with front bezel F2B	transp. /black	**6.0000.C200.0002**	
Gasket counter			56 x 40 mm [2.20 x 1.57"] 53 x 28 mm [2.09 x 1.10"]	HB26.11 HB26.21	**6.0000.I113.0502** **6.0000.I082.0502**	
Mounting frame		**cut-out 50 x 25 mm [1.97 x 0.98"]**	via adapter 6.0000.A080.0503 for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	chromated	**6.0000.F300.0006**	–
Enclosure blind		**48 x 24 mm [1.89 x 0.94"]**	for cut-out 50 x 25 mm [1.97 x 0.98"], for counter 53 x 28 mm [2.09 x 1.10"]	black	**6.0000.H200.0002**	–
DIN rail mount		**SR 1**	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail		**6.0000.G100.0000**	
		SR 2	for 2x HB26		**6.0000.G200.0000**	

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Standard timers | 99999.99 h (AC) / 999999.9 h (DC) without reset | HB27

Technical data

Electrical characteristics

Electrical connection	cable	2 x 0.5 mm² [AWG20], NYFAZ, 0.5 m [1.64'] long AC: grey/grey DC: red +, black –
	type HB27.00.3	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	approx. 500 mW
	36 ... 80 V DC	approx. 900 mW
	100 ... 130 V DC	approx. 750 mW
	20 ... 30 V AC	approx. 0.3 VA
	42 ... 48 V AC	approx. 0.25 VA
	100 ... 130 V AC	approx. 0.6 VA
	187 ... 264 V AC	approx. 1.2 VA
	360 ... 440 V AC	approx. 1.65 VA
Rated voltages	AC (50 or 60 Hz)	20 ... 30 / 42 ... 48 / 100 ... 130 / 187 ... 264 / 360 ... 440 V AC
	DC	10 ... 30 / 36 ... 80 / 100 ... 130 V DC
Accuracy	AC	supply frequency + 30 ms
	DC	< 0.003 % (at 24 h)
Device safety	designed to	EN 61010 part 1
	protection class	2
	application area	pollution level 2

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]

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)
Relative humidity at +30 °C [+86 °F]		≤ 80 % (non-condensing)
Altitude		up to 2000 m [6562']
Mounting position		any

Approvals

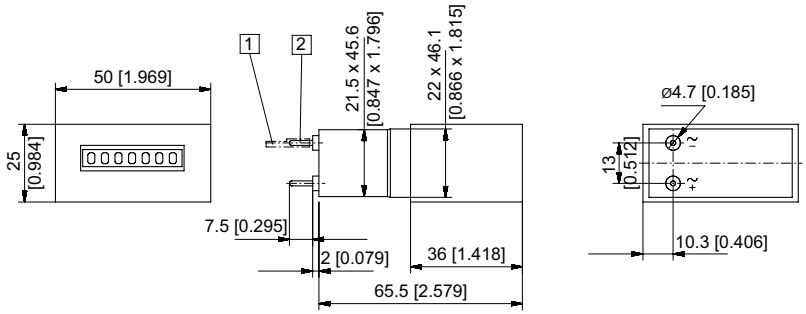
CE compliant in accordance with

EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

Plug-in for socket box 945.2 and front bezel F1B

Type HB27.00.3





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
HB27.00.3	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**		

Dimensions in mm [inch]

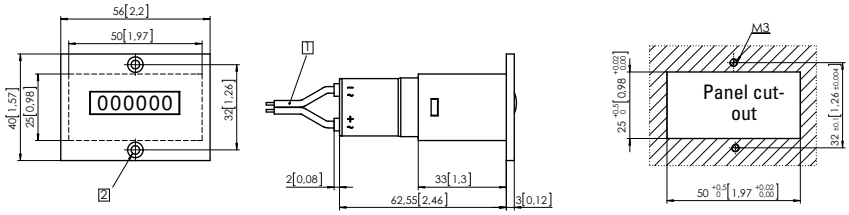
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Standard timers | 99999.99 h (AC) / 999999.9 h (DC) without reset | HB27

Screw mounting 56 x 40 [2.20 x 1.57]

Type HB27.10





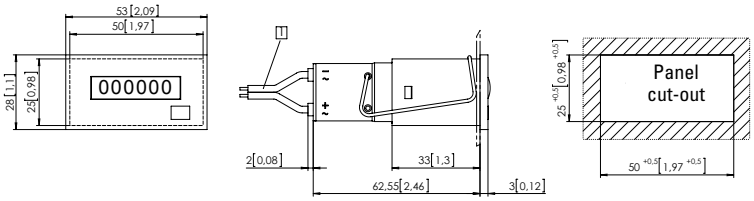
1 Connection cable, 2 x 0.5 mm² [AWG20], NYFAZ, 0.5 m [1.64'] long 2 Countersinking Af3, DIN 74

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
HB27.10	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 HB27.20





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
HB27.20	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		

Dimensions in mm [inch]

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