

# Time preset counters, electromechanical

Standard time preset counters	Adding with mechanical reset (AC+DC)	HVa 15
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The time preset counters HVa 15 (with manual reset) have a robust construction.

They are used in harsh industrial environments as single counters or in combination, as a plug-in version, with other B, BVa, HB or HVa counters. They display the current counter value and the preset value.

### Characteristics

- 5-digit adding time preset counter with stationary preset.
- Manual reset.
- Potential-free changeover contact (microswitch) when the preset time is reached.
- Contact remains switched until reset occurs.
- Counter without front bezel, for mounting in front bezel F2B; can be combined in 50 x 50 mm size.

### Benefits

- Can be combined with the counters of the B, BVa, HB and HVa series.
- Counter value and preset value are constantly displayed.
- Versions with transparent cover, sealing cover, lockable zero reset.

### Applications

Time control, automation.

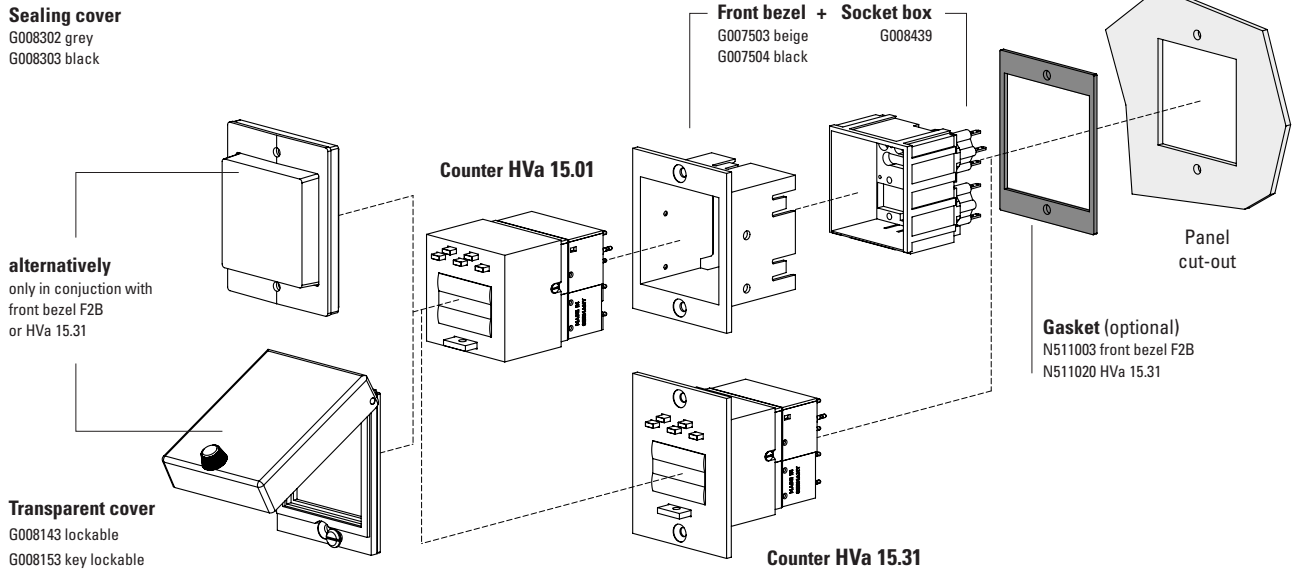
### Type series

Description	Type	Options
Mounting clip	<b>HVa 15.21</b>	· Lockable 0-reset
Front bezel 3, with mounting holes	<b>HVa 15.31</b>	· Housing: black (standard) Art. no. 3.30X.X17.XXX grey Art. no. 3.30X.X16.XXX
		· HVa 15.01 (without front bezel) - plugs into socket box 946.1 - DIN Rail mount SR 3
		Housing black (standard) Art. no. 3.300.011.XXX grey Art. no. 3.300.010.XXX

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**Accessories / Mounting examples**



		Type / size	Description		Order no.	suitable gasket
<b>Front bezel</b>		<b>F2B</b>	for counter HVa 15.01 for cut-out 54 x 49 mm (only in conjunction with socket box G008439)	beige black	<b>G007503</b> <b>G007504</b>	<b>N511003</b>
<b>Socket box</b>		<b>946.1</b>	for plug-in connection in front bezel F2B	black	<b>G008439</b>	–
<b>Sealing cover IP65</b>		<b>K2</b>	for counter HVa 15.31 or for counter HVa 15.01 in conjunction with front bezel F2B	transp. /grau transp. /black	<b>G008302</b> <b>G008303</b>	–
<b>Transparent cover IP65 with gasket</b>		<b>2 Dv verriegelbar</b>	cover lockable for counter HVa 15.31 or for counter HVa 15.01 in conjunction with front bezel F2B	transp. /black	<b>G008143</b>	–
		<b>2 Dvs verschließbar</b>	cover key lockable for counter HVa 15.31 or for counter HVa 15.01 in conjunction with front bezel F2B	transp. /black	<b>G008153</b>	–
<b>Gasket counter</b>			58 x 58 mm [2.28 x 2.28"] 60 x 75 mm [2.36 x 2.95"]	HVa 15.21 HVa 15.31	<b>N511004</b> <b>N511020</b>	
<b>DIN rail mount</b>		<b>SR 3</b>	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail		<b>G300002</b>	
<b>Key for key-locking zero reset</b>					<b>G050265</b>	

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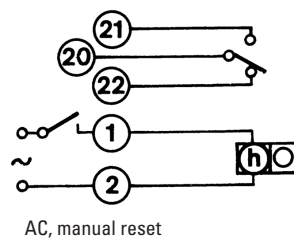
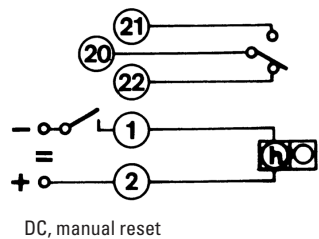
## Technical data

General technical data		
<b>Color of figures</b>	hours	figures white on black
<b>preset</b>	1/10 and 1/100 h	figures red on white
	hours	figures yellow on black
	1/10 and 1/100 h	figures red on white
		(approx. 4 mm [0.16"] high)
<b>Reset</b>		manual
<b>Mounting position</b>		any
<b>Operating temperature</b>		-15 °C ... +50 °C [+5 °F ... +122 °F] (non-condensing)
<b>Relative humidity</b> at +30 °C [+86 °F]		≤ 80 % (non-condensing)
<b>Altitude</b>		up to 2000 m [6562']
<b>Gasket</b>		oil and gasoline-resistant synthetic rubber, particularly suitable for use with acids and alkalis, very good age stability

Mechanical characteristics		
<b>Protection</b>		IP42 (front side)
	sealing cover K1	IP65 (front side)
	transparent cover Dv and Dvs	IP65 (front side)
<b>Color of housing</b>		black (standard)
<b>EMC standards</b>		EN 55011 class B EN 61000-6-2, EN 61000-6-3
<b>Device safety</b>	designed to	EN 61010 part 1
	protection class	2
	application area	pollution level 2

Electrical characteristics		
<b>Switching contact</b>		1 changeover contact (micro switch) release at the preset time
	loading capacity at AC	max. 250 V, max. 2 A
	loading capacity at DC (ohmic load)	24 V max. 2.0 A
		60 V max. 0.7 A
		115 V max. 0.4 A
		230 V max. 0.2 A
With inductive load, spark quenching is required reducing the max. current to 60 %		
<b>Test voltage</b>		2000 V AC, 50 Hz for AC counter
<b>Electrical connection</b>		tinned round pins ø 1.6 mm [0.063"], with push on connectors
<b>Power consumption</b>	10 ... 30 V DC	approx. 0.5 W
	36 ... 80 V DC	approx. 0.9 W
	100 ... 130 V DC	approx. 0.75 W
	20 ... 30 V AC, 50 Hz	approx. 0.3 VA
	42 ... 48 V AC, 50 Hz	approx. 0.25 VA
	100 ... 130 V AC, 50 Hz	approx. 0.6 VA
	187 ... 264 V AC, 50 Hz	approx. 1.2 VA
360 ... 440 V AC, 50 Hz	approx. 1.65 VA	
<b>Rated voltages</b>	AC (50 or 60 Hz)	20 ... 30/42 ... 48/100 ... 130/187 ... 264, 360 ... 440 V
	DC	10 ... 30/36 ... 80/100 ... 130
<b>On time</b>		100 %
<b>Count mode</b>		adding
<b>Count range</b>	AC	999.99 h
	DC	9999.9 h

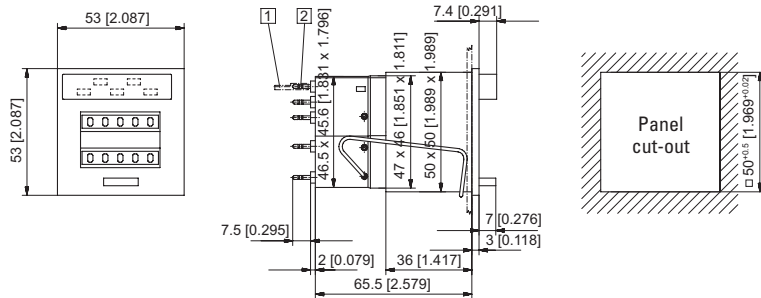
## Terminal assignment



# Time preset counters, electromechanical

## Standard time preset counters Adding with mechanical reset (AC+DC) HVa 15

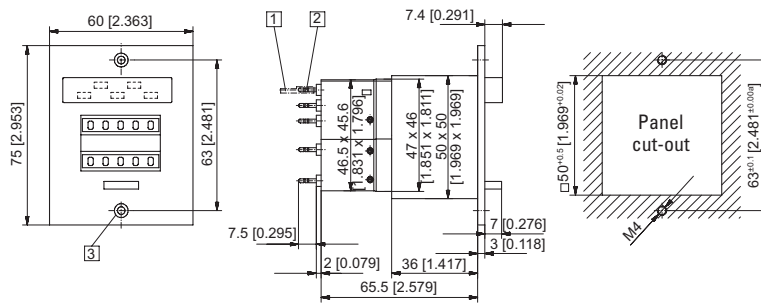
### Mounting clip Type HVa 15.21



1 Push on connector  $\varnothing$  1.5 [0.059] tinned    2 Round pin  $\varnothing$  1.6 [0.063] tinned

Type	Voltage	Art. no.					
		10 ... 30 V	20 ... 30 V	42 ... 48 V	100 ... 130 V	187 ... 264 V	360 ... 440 V
HVa 15.21	AC (50 Hz)		3.300.211.071	3.300.211.072	3.300.211.074	3.300.211.075	on request
	AC (60 Hz)		3.300.211.081	3.300.211.082	3.300.211.084	3.300.211.085	on request
	DC	3.300.211.351					

### Front bezel 3, with mounting holes Type HVa 15.31



1 Push on connector  $\varnothing$  1.5 [0.059] tinned    2 Round pin  $\varnothing$  1.6 [0.063] tinned    3 Countersinking Af4., DIN 74

Type	Voltage	Art. no.					
		10 ... 30 V	20 ... 30 V	42 ... 48 V	100 ... 130 V	187 ... 264 V	360 ... 440 V
HVa 15.31	AC (50 Hz)		3.300.311.071	3.300.311.072	3.300.311.074	3.300.311.075	on request
	AC (60 Hz)		3.300.311.081	3.300.311.082	3.300.311.084	3.300.311.085	on request
	DC	3.300.311.351					