Time preset counters, electromechanical

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

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	**HVa 15.21**	· Lockable 0-reset		
Front bezel 3, with mounting holes	**HVa 15.31**	· 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

Accessories	Dimensions in mm [inch]		Order no.
Socket box, type 946.1	for HVa 15 for plug-in connections in front bezel F2B	black	**G008439**
Sealing cover type K2, IP65	suitable for front bezel 75 x 60 [2.95 x 2.36] with screw mounting	grey	**G008302**
		black	**G008303**
Mounting frame with cut-out 50 x 50 [1.97 x 1.97] via separate adapter also for 45 x 45 [1.77 x 1.77]	for snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 48 x 48 [1.89 x 1.89], 53 x 28 [2.09 x 2.09] and 55 x 55 [2.17 x 2.17]	chromated	**G300003**
DIN rail mount SR 3	for snap-on mounting on 35 [1.38] top-hat DIN rail		**G300002**

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.

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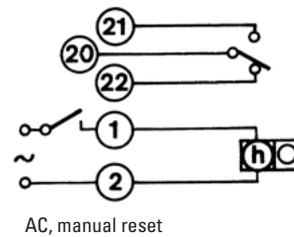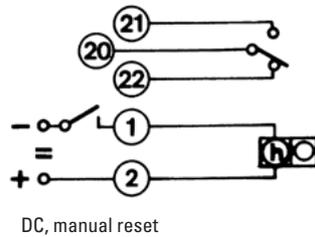| Standard time preset counters | Adding with mechanical reset (AC+DC) | HVa 15 |

Technical data

General technical data

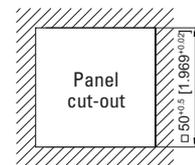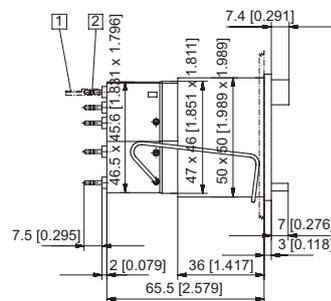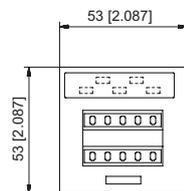| Color of figures | hours | figures white on black |
	1/10 and 1/100 h	figures red on white
preset	hours	figures yellow on black
	1/10 and 1/100 h	figures red on white (approx. 4 mm [0.16"] high)
Reset		manual
Mounting position		any
Operating temperature		-15°C ... +50°C [+5°F ... +122°F] (non-condensing)
Gasket		oil and gasoline-resistant synthetic rubber, particularly suitable for use with acids and alkalis, very good age stability

Mechanical characteristics

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

Electrical characteristics

Switching contact		1 changeover contact (micro switch) release at the preset time
	loading capacity at AC	max. 250 V, max. 2 A
	loading capacity at DC	24 V max. 2.0 A
	(ohmic load)	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 %

Test voltage		2000 V AC, 50 Hz for AC counter
Electrical connection		tinned round pins ø 1.6 mm [0.063"], with push on connectors
Power consumption	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
Rated voltages		
	AC (50 or 60 Hz)	20 ... 30/42 ... 48/100 ... 130/187 ... 264, 360 ... 440 V
	DC	10 ... 30/36 ... 80/100 ... 130
On time		100 %
Count mode		adding
Count range	AC	999.99 h
	DC	9999.9 h

Terminal assignment

DC, manual reset
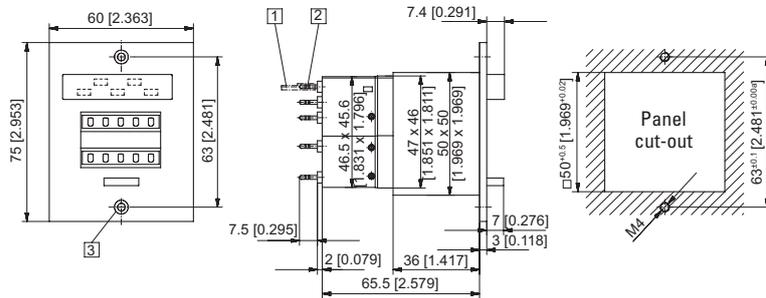

AC, manual reset

Mounting clip
Type HVa 15.21

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

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Front bezel 3, with mounting holes
Type HVa 15.31

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

Mounting examples for optional accessories

HVa 15.31

Gasket IP65 (optional)
N511003

Panel cut-out

Dimensions in mm [inch]