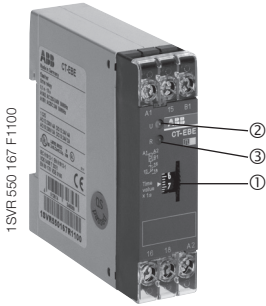


# Electronic timer CT-EBE

## Flasher starting with OFF, 1 c/o contact

### Data sheet



CT-EBE

- ① Thumbwheel for the fine adjustment of the flashing time
- ② U: green LED - Supply voltage
- ③ R: red LED - Output relay energized

#### Characteristics

- 1 single time range from 0.1 to 10 s
- 2 versions with different supply voltage ranges are available: 24 V AC/DC, 220-240 V AC and 110-130 V AC
- Single-function flasher starting with the OFF time
- 1 c/o contact
- 2 LEDs for status indication
- Width 22.5 mm

#### Approvals

- UL cULus
- GL
- GOST
- CCC

#### Marks

- CE CE
- C-Tick C-Tick

#### Order data

Type	Supply voltage	Time range	Order code
CT-EBE	24 V AC/DC, 220-240 V AC	0.1-10 s	1SVR 550 167 R1100
CT-EBE	110-130 V AC	0.1-10 s	1SVR 550 160 R1100

#### Application

Their conception makes the CT-E range timers ideal for serial applications.

#### Operating mode

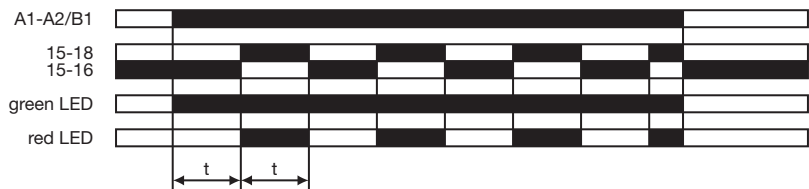
The fine adjustment of the time delay is made via the front-face thumbwheel.

#### Function diagram

##### Flasher with symmetrical ON & OFF times, starting with the OFF time (Recycling equal times, OFF first)

Applying supply voltage to terminals A1-A2/B1, starts timing with symmetrical ON & OFF times. The cycle starts with an OFF time first.

If supply voltage is interrupted, the output relay de-energizes and the time delay is reset.



t = adjusted flashing time

20DC 252 140 F0205

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# Electronic timer CT-EBE

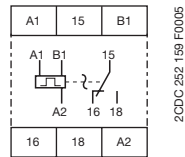
## Flasher starting with OFF, 1 c/o contact

### Data sheet

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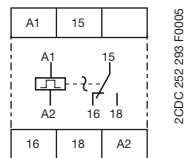
#### Connection diagrams

##### CT-EBE



Version: 1SVR 550 167 R1100  
A1-A2 Supply: 220-240 V AC  
A1-B1 Supply: 24 V AC/DC  
15-16/18 c/o contact

##### CT-EBE



Version: 1SVR 550 160 R1100  
A1-A2 Supply: 110-130 V AC  
15-16/18 c/o contact

# Electronic timer CT-EBE

## Flasher starting with OFF, 1 c/o contact

### Data sheet

#### Technical Data

Input circuits			
Supply voltage		A1-A2	220-240 V AC
		A1-A2	110-130 V AC
		A1-B1	24 V AC/DC
Power consumption		110-130 V AC	approx. 2.0 VA
		220-240 V AC	approx. 2.0 VA
		24 V AC/DC	approx. 1.0 VA/W
Supply voltage tolerance			-15...+10 %
Supply voltage frequency		AC/DC Version	DC or 50/60 Hz
		AC Version	50/60 Hz
Duty time			100 %
Timing circuit			
Time range	for each device 1 time range		0.1-10 s
Recovery time			< 50 ms
Repeat accuracy (constant parameters)			< 1 %
Timing error within the supply voltage tolerance range			< 0.5 % / % Δ U
Timing error within operating temperature range			< 0.1 % / °C
Indication of operational states			
Supply voltage / timer			green LED
Output relay energized			red LED
Output circuits		15-16/18	
Number of contacts			relay, 1 c/o contact
Contact material			AgCdO
Related voltage	acc. to VDE 0110, IEC 60947-1		250 V
Maximum switching voltage			250 V AC, 250 V DC
Rated switching current acc. to IEC 60947-5-1		AC-12 (resistive) 230 V	4 A
		AC-15 (inductive) 230 V	3 A
		DC-12 (resistive) 24 V	4 A
		DC-15 (inductive) 24 V	2 A
Maximum lifetime		mechanical	30 x 10 <sup>6</sup> switching cycles
		electrical (AC-12, 230 V, 4 A)	0.1 x 10 <sup>6</sup> switching cycles
Short circuit proof, max. fuse rating		n/c	10 A fast, operating class gL
		n/o	10 A fast, operating class gL
General data			
Enclosure		width	22.5 mm
		length	78.0 mm
		depth	78.5 mm
Wire size		fine-strand with wire end ferrule	2 x 1.5 mm <sup>2</sup>
		fine-strand without wire end ferrule	
		rigid	
Weight			approx. 80 g (2.8 oz)
Mounting position			any
Degree of protection	enclosure / terminals		IP50 / IP20
Temperature		operating	-20...+60 °C
		storage	-40...+85 °C
Mounting			DIN rail (EN 50022)
Standards			
Product standard			IEC 61812-1, EN 61812-1
EMC Directive			89/336/EEC
Electromagnetic compatibility			IEC 61000-6-2, EN 61000-6-4
ESD	acc. to IEC 61000-4-2, EN 61000-4-2		level 3 6 kV / 8 kV
HF radiation resistance	acc. to IEC 61000-4-3, EN 61000-4-3		level 3 10 V/m
Burst	acc. to IEC 61000-4-4, EN 61000-4-4		level 3 2 kV / 5 kHz
Surge	acc. to IEC 1000-4-5, EN 61000-4-5		level 4 2 kV L-L
HF line emission	acc. to IEC 1000-4-6, EN 61000-4-6		level 3 10 V
Low Voltage Directive			73/23/EEC
Operational reliability	acc. to IEC 68-2-6		6 g
Mechanical resistance	acc. to IEC 68-2-6		10 g

# Electronic timer CT-EBE

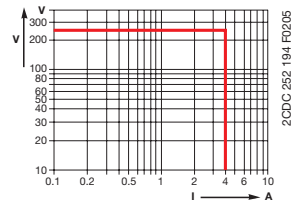
## Flasher starting with OFF, 1 c/o contact

### Data sheet

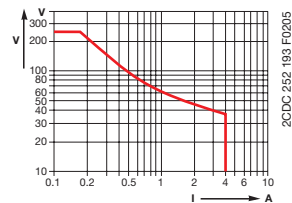
Approvals / marks		
Approvals		cULus, GL, GOST and CCC
Marks		CE and C-Tick
Isolation data		
Rated insulation voltage between supply circuit, control circuit and output circuit	acc. to VDE 0110, IEC 60947-1	supply up to 240 V: 300 V supply up to 440 V: 500 V
Rated impulse withstand voltage between all isolated circuits	acc. to VDE 0110, IEC 664	4 kV / 1.2-50 $\mu$ s
Test voltage between all isolated circuits		2.5 kV, 50 Hz, 1 min.
Pollution category	acc. to VDE 0110, IEC 664, IEC 255-5	III/C
Overtoltage category	acc. to VDE 0110, IEC 664, IEC 255-5	III/C
Environmental testing	acc. to IEC 68-2-30	24 h cycle time, 55 °C, 93 % rel., 96 h

### Load limit curves

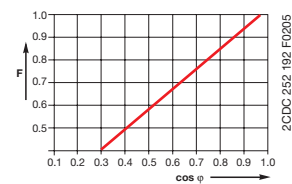
#### AC load (resistive)



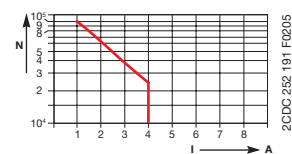
#### DC load (resistive)



#### Derating factor F for inductive AC load



#### Contact lifetime /switching cycles N



220 V 50 Hz 1 AC 360 cycles/h

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# Electronic timer CT-EBE

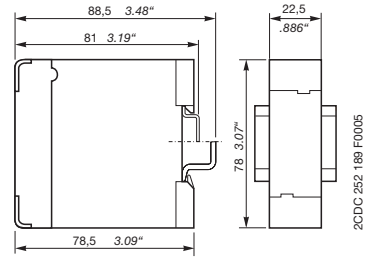
## Flasher starting with OFF, 1 c/o contact

### Data sheet

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#### Dimensional drawings

Dimensions in mm





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