Timers
Delay on Release
Types B 128, B 121

- **Time ranges: 0.15 s to 60 s**
- **Automatic start after drop out of power supply**
- **Knob-adjustable time within range**
- **Repeatability deviation: ≤ 1%**
- **Output: 10 A SPDT relay**
- **Plug-in type module**
- **Scantimer housing**
- **LED-indication for supply on**
- **AC or DC power supply**

Product Description

Mono-function, plug-in, delay on release, miniature time relays up to 60 s covering 2 individual time ranges. These economical timers are often used to switch on an exhaust fan and keep it running for a certain period of time after disconnection of power supply.

Ordering Key

B 128 220 006

- **Function**
- **Output**
- **Type**
- **Power supply**
- **Time range**

Type Selection

Plug	Output	Time ranges	Supply: 24 VAC	Supply: 120 VAC	Supply: 220 VAC	Supply: 24 VDC
Circular 8 pins	SPDT	0.15 - 6 s	**B 128 024 006**	**B 128 120 006**	**B 128 220 006**	**B 128 724 006**
		1.5 - 60 s	**B 128 024 060**	**B 128 120 060**	**B 128 220 060**	**B 128 724 060**
Circular 11 pins	SPDT	0.15 - 6 s	**B 121 024 006**	**B 121 120 006**	**B 121 220 006**	**B 121 724 006**
		1.5 - 60 s	**B 121 024 060**	**B 121 120 060**	**B 121 220 060**	**B 121 724 060**

Time Specifications

Time ranges	0.15 - 6 s 1.5 - 60 s
Time range accuracy	0 to +20% on max. min. actual time ≤ min. set time
Repeatability deviation	≤ 1%
Time variation	
Within rated power supply	≤ 0.05%/V
and ambient temperature	≤ 0.2%/°C
Reset	Power supply interruption
Time and/or relay	≥ 500 ms

Output Specifications

Output		SPDT relay
Basic electrical insulation		250 VAC (rms) (contact/electronics)
Contact ratings (AgCdO)		µ (micro gap)
Resistive loads	AC 1	10 A/250VAC (2500 VA)
	DC 1	1 A/250 VDC (250 W)
	or	10 A/25 VDC (250 W)
Small inductive loads	AC 15	2.5 A/230 VAC
	DC 13	5 A/24 VDC
Mechanical life		≥ 30 x 10^6 operations
Electrical life	AC 1	≥ 2.5 x 10^5 operations (at max. load)
Operating frequency		≤ 7200 operations/h
Insulation voltages		
Rated insulation voltage		≥ 2.0 kVAC (rms) (cont./elec.)
Rated transient protection volt.		4 kV (1.2/50 µs) (cont./elec.) (IEC 664)

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Supply Specifications

Power supply AC types		Installation cat. III (IEC 664)
Rated operational voltage		
Through pins 2 & 10 or pins 2 & 7	220	220 VAC + 15/- 20%, 45 to 65 Hz
	120	120 VAC + 15/- 20%, 45 to 65 Hz
	024	24 VAC + 15/- 20%, 45 to 65 Hz
Dropout tolerance		≥ 10 ms
Rated insulation voltage		None
Rated transient protection volt.		4 kV (1.2/50 µs) @ 220 VAC 2.5 kV (1.2/50 µs) @ 120 VAC 800 V (1.2/50 µs) @ 24 VAC (line/neutral)
Power supply DC type		Installation cat. III (IEC 664)
Rated operational voltage 724		24 VDC + 15/- 20% (pin 2 pos.)
Rated insulation voltage		None
Rated transient protection volt.		800 V (1.2/50 µs)
Consumption	AC supply	60 mA @ 50 Hz/70 mA @ 60 Hz
	DC supply	1 W

General Specifications

Power ON time	≥ 200 ms
Indication for	
Power supply ON	LED, red
Environment	
Degree of protection	IP 20 B
Pollution degree	2 (IEC 664)
Operating temperature	-20° to +50°C (-4° to +122°F)
Storage temperature	-50° to +85°C (-58° to +185°F)
Weight	85 g
Approval	UL, CSA, SEV

Mode of Operation

The relay operates immediately after power supply is applied.

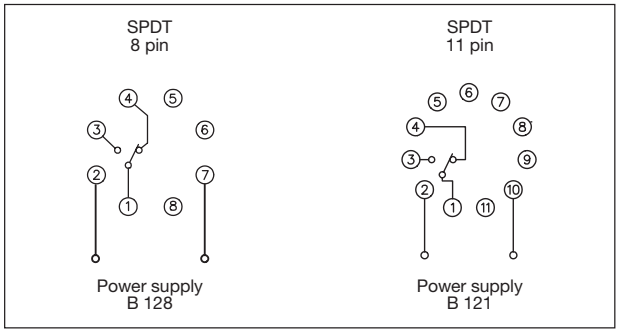
When power supply is interrupted, the time period starts and at the end of the set time the relay releases.

If power supply is reapplied before the relay releases, the time is reset and the relay remains on.

B 121/B 128 monitor that power supply is applied. If power supply is interrupted, the relay starts e.g. an alarm (battery driven) after the time period has expired.

Please note
B 128 and B 121 should not be operated by pulses shorter than 500 ms.

Wiring Diagrams



Time Setting

Knob-adjustable on scale in seconds.

Accessories

Sockets◊	S 408, S 411
Hold down spring◊	HF
Mounting rack	SM 13
Socket cover	BB 4
Potentiometer lock	PL 1

For further information refer "Accessories".

Operation Diagram