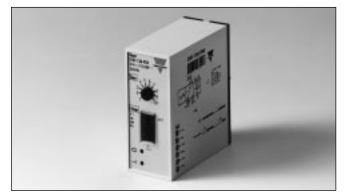
# Timers Delay on Operate Type S 101





## **Product Description**

Multi-voltage delay on operate timer with 6 selectable time ranges from 0.1 s up to 10 h for standard 11-pin circular sockets. Used to delay operation of equipment in industrial applications.

<b>56 924</b>
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Supply:

S 101 156 924

24 VAC/DC & 115-230 VAC

LED-indication for relay and power supply ON
24 VAC/DC and 115 to 230 VAC power supply

• Timer in accordance with IEC 61812-1

## **Type Selection**

Plug	Output
Circular	SPDT

## **Time Specifications**

Time ranges Selectable by DIP-switch	0.1 - 1 s 1 - 10 s 0.1 - 1 m 1 - 10 m 0.1 - 1 h 1 - 10 h
Setting accuracy	<i>≤</i> 5%
Repeatability	≤ 0.2%
Time variation Within rated power supply and ambient temperature Reset Power supply interruption	≤ 0.05%/V ≤ 0.2%/°C ≥ 200 ms
	2 200 110

#### **Output Specifications**

**Time range** 

0.1 s - 10 h

Time ranges: 0.1 s to 10 h

Knob-adjustable time setting

• Cadmium-free contacts

• Easy time setting

Automatic start
Repeatability: ≤ 0.2%
Output: 5 A SPDT relay
Plug-in module, S-housing

Output		SPDT relay	
Rated insulation voltage		250 VAC (rms) (cont./elect.)	
Contact ratings (AgNi)		μ (micro gap) (IEC 60947-5-1/IEC 60337)	
Resistive loads	AC 1 DC 1	5 A/250 VAC 5 A/24 VDC	
	AC 15 DC 13	5 A/250 VAC 2 A/24 VDC	
Mechanical life		$\geq$ 30 x 10 <sup>6</sup> operations	
Electrical life	AC 1	$\geq 10^5$ operations (at max. load)	
Operating frequency		≤ 7200 operations/h	
Insulation voltage Rated insulation voltage Rated impulse withstand volt.		≥ 2.0 kVAC (rms) (cont./elect.) 4 kV (1.2/50 µs) (cont./elect.) (IEC 60664)	

# **Supply Specifications**

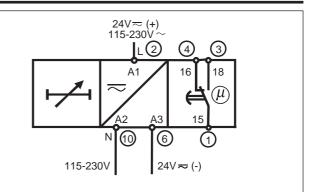
Power supply AC connection Rated operational voltage	Overvoltage cat. III (IEC 60664)	Power supply DC connection Rated operational voltage	Overvoltage cat. III (IEC 60664)
Through pins 2 & 10	115-230 VAC, -15 to +15% 50/60 Hz, -5/+5 Hz	Through pins 2 & 6 924	24 VDC, -15 to +15% (pin 2 positive)
or pins 2 & 6	24 VAC, -15 to +15% 50/60 Hz, -5/+5 Hz	Voltage interruption Rated insulation voltage	≤ 40 ms None
Voltage interruption	≤ 40 ms	Rated impulse withstand volt.	1 kV (1.2/50 µs) (pins 2 & 6)
Rated insulation voltage	None	Rated operational current	
Rated impulse withstand volt. 4 kV (1	kV (1.2/50 μs) (pins 2 & 10)	AC supply	50 mA @ 230 VAC 25 mA @ 115 VAC 35 mA @ 24 VAC
		DC supply	20 mA @ 24 VDC



#### **General Specifications**

Power ON delay	≤ 200 ms
Power OFF delay	≤ 200 ms
Indication for	
Power supply ON	LED, green
	(flashing during time delay)
Output ON	LED, yellow
Environment	
Degree of protection	IP 20
Pollution degree	2 (IEC 60664)
Operating temperature	-20° to +50°C (-4° to +122°F)
Storage temperature	-50° to +85°C (-58° to +185°F)
Weight	100 g
Approvals	UL, CSA
CE-marking	Yes
EMC	Electromagnetic
	Compatibility
Immunity	Acc. to EN 50082-2
Emission	Acc. to EN 50081-1
Timer specifications	Acc. to IEC 61812-1

### Wiring Diagram



#### **Time Setting**



Shown example: min. x 0.1

### **Operation Diagram**

Power supply		
Relay ON	⊢TI	

## Mode of Operation

The delay period begins when power supply is applied. At the end of the set delay, the relay will operate and will not release until power supply is interrupted. If power supply is interrupted for at least 200 ms before the relay operates, the time circuit is reset to zero and the relay is ready for a new time period.

Accessor	les

Socket Hold down spring Mounting rack Socket cover S 411 HF SM 13 BB 4