Timers Delay on Operate Type S 101





- Time ranges: 0.1 s to 10 h
- Easy time setting
- Knob-adjustable time setting
- Automatic start
- Repeatability: ≤ 0.2%
- Output: 5 A SPDT relay
- Plug-in module, S-housing
- LED-indication for relay and power supply ON
- 24 VAC/DC and 115 to 230 VAC power supply
- Cadmium-free contacts
- Timer in accordance with IEC 61812-1

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 cir-

cular sockets. Used to delay operation of equipment in industrial applications.

Ordering Key 5 101 156 924

Housing	
Type/function —	
Output —	
_ •	⁻
Power supply ——————	

Type Selection

Plug	Output	Time range	Supply: 24 VAC/DC & 115-230 VAC
Circular	SPDT	0.1 s - 10 h	S 101 156 924

Time Specifications

-
0.1 - 1 s 1 - 10 s 0.1 - 1 m 1 - 10 m 0.1 - 1 h 1 - 10 h
≤5%
≤ 0.2%
≤ 0.05%/V
≤ 0.2%/°C
≥ 200 ms

Output Specifications

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

Supply Specifications

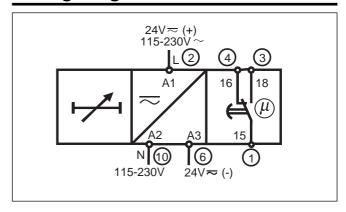
Power supply AC connection Rated operational voltage	Overvoltage cat. III (IEC 60664)	Power supply DC connection Rated operational voltage	Overvoltage cat. III (IEC 60664)
Through pins 2 & 10	115-230 VAC, -15 to +15% 50/60 Hz, -5/+5 Hz	Through pins 2 & 10 924 (interconnect pins 6 & 10)	24 VDC, -15 to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



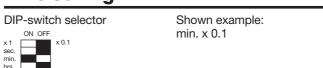
General Specifications

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	CE
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



Operation Diagram

Power supply			
Relay ON	├	├	├ ── T ──

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.

Accessories

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