

Timers

Two-state Relay

Type SG 125

CARLO GAVAZZI



- Two-state relay with built-in memory
- Time ranges: 0.15 s to 3 s
- Switches, with a preset delay, to opposite contact position at power supply interruption
- Repeatability deviation: $\leq 1\%$
- Output: 8 A SPDT relay
- Plug-in type module
- S-housing
- LED-indication for relay on
- AC or DC power supply

Product Description

Two-state, plug-in time relays with built-in memory and timer up to 3 s. When interrupting power supply, the contact switches after an adjustable delay to the opposite posi-

tion where it remains. Often used in applications with two pumps in order to prevent the same pump from always starting first.

Ordering Key SG 125 024

Housing _____
 Function _____
 Output _____
 Type _____
 Power supply _____

Type Selection

Plug	Output	Time range	Supply: 24 VAC	Supply: 115 VAC	Supply: 230 VAC	Supply: 24 VDC
Circular	SPDT	0.15 - 3 s	SG 125 024	SG 125 115	SG 125 230	SG 125 724

Time Specifications

Time ranges	0.15 - 3 s
Time range accuracy	0 to +20% on max. min. actual time \leq min. set time
Repeatability deviation	$\leq 1\%$
Time variation	
Within rated power supply and ambient temperature	$\leq 0.2\%/^{\circ}\text{C}$ $\leq 0.05\%/V$
Reset	\geq set delay

Output Specifications

SPDT relay	
Basic electrical insulation	250 VAC (rms) (contact/electronics)
Contact ratings (AgCdO) μ (micro gap)	
Resistive loads	AC 1 10 A/250 VAC (2000 VA) DC 1 1 A/250 VDC (100 W) or 4 A/25 VDC (100 W)
Small inductive loads	AC 15 2.5 A/230 VAC DC 13 5 A/24 VDC
Mechanical life	$\geq 30 \times 10^6$ operations
Electrical life	
	AC 1 $\geq 2.5 \times 10^5$ 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)



Supply Specifications

Power supply AC types		Installation cat. III (IEC 664)
Rated operational voltage through pins 2 & 10	230	230 VAC ± 15%, 45 to 65 Hz
	115	115 VAC ± 15%, 45 to 65 Hz
	024	24 VAC ± 15%, 45 to 65 Hz
Drop-out tolerance		≥ 40 ms
Rated insulation voltage		≥ 2.0 kVAC (RMS) (supply/elec.)
Rated transient protection volt.		4 kV (1.2/50 µs) (line/neutral)
Power supply DC type		Installation cat. III (IEC 664)
Rated operational volt.	724	24 VDC ± 15% (pin 2 pos.)
Rated insulation voltage		None
Rated transient protection volt.		800 V (1.2/50 µs)
Consumption	AC supply	2.5 VA
	DC supply	1.5 W

Mode of Operation

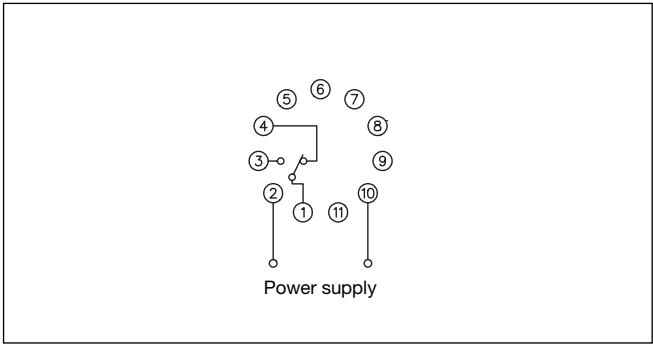
The relay contact remains in its present position (pins 1 and 4 or pins 1 and 3) when power supply is applied.

When interrupting power supply, however, after a delay of 0.15 - 3 s set on the potentiometer the contact switches to the opposite position where it remains.

General Specifications

Power ON time		≥ 1 s
Power OFF delay		≥ set delay
Indication for Output 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	AC types	200 g
	DC types	125 g
Approvals		UL, CSA, SEV

Wiring Diagram



Accessories

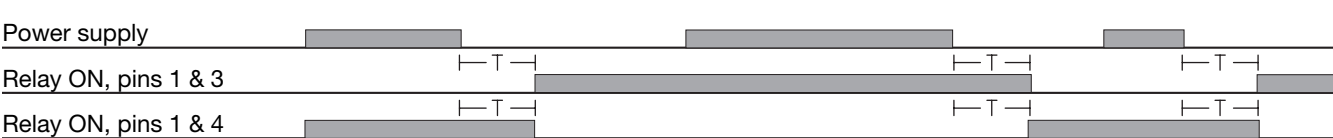
Socket◊	S 411
Hold down spring◊	HF
Mounting rack	SM 13
Socket cover	BB 4
Front mounting bezel	FRS2
Potentiometer lock	PL

For further information refer to "Accessories".
For other AC/DC voltages refer to "General Information".

Time Setting

0.15 - 3 s.
Knob-adjustable on relative scale.

Operation Diagram



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[Carlo Gavazzi:](#)

[SG125115](#) [SH2D10V424](#) [SG125024](#) [SG125724](#)