Logic Relay Type S 160





- Bistable relay output
- Built-in memory
- Negative logic
- 1 signal input
- 8 A SPDT output relayLED-indication: relay ON
- AC or DC power suppy

Product Description

Bistable logic relay with "flipmemory. flop" function and built-in

Ordering Key

S 160 156 024

	 1	
Housing —		
•		
Type/function ————	_	
Output ————		!
•		
Power supply ————		

Type Selection

Plug	Output	Supply: 24 VAC	Supply: 115 VAC	Supply: 230 VAC	Supply: 24 VDC	
Circular	SPDT	S 160 156 024	S 160 156 115	S 160 156 230	S 160 216 724	

Input Specifications

Input Pins 5 & 7	Mechanical or electronic contact
No load current	Max. 50 mA
Short circuit current	Max. 3.0 mA
Pulse duration	Min. 20 ms
Activation frequency	Max. 10 Hz.

Output Specifications

Output Rated insulation vol	tage	SPDT relay 250 VAC (rms) (cont./elect.)
Contact ratings (AgC Resistive loads Small inductive loads	AC 1 DC 1 or	µ (micro gap) 8 A/250 VAC (3000 VA) 0.4 A/250 VDC (100 W) 4 A/25 VDC (100 W) 2.5 A/250 VAC 5 A/24 VDC
Mechanical life	DC 13	≥ 30 x 10 ⁶ operations
Electrical life	AC 1	≥ 2.5 x 10 ⁵ operations (at max. load)
Operating frequency		≤ 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withst	tand volt.	≥ 2 kVAC (rms) (cont./elect.) 4 kV (1.2/50 μs) (cont. elect.) (IEC 60664)



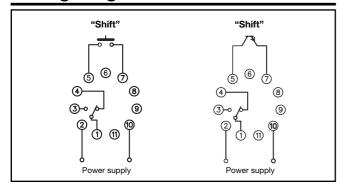
General Specifications

Indication for	150 "
Output ON	LED, yellow
Environment	
Degree of protection	IP 20 B
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	
AC supply	200 g
DC supply	125 g
Approvals	UL, CSA
CE-marking	Yes

Supply Specifications

Power supply AC types Rated operational voltage through pins 2 & 10	48 VAC $\pm 15\%$, 45 to 65 Hz 115 VAC $\pm 15\%$, 45 to 65 Hz 230 VAC $\pm 15\%$, 45 to 65 Hz \leq 40 ms 2 kVAC (rms) (supply/elect.)
Power supply DC types Rated operational voltage through pins 2 & 10	Overvoltage cat. III (IEC 60664) (IEC 60038)
724	
Dielectric voltage	None (supply/elect.)
Rated impulse withstand v	olt. 800 V (1.2/50 µs)

Wiring Diagrams



Mode of Operation

Logic relay "flip-flop" with built-in memory. A short-circuit of the contact function between pins 5 and 7 will change the relay from OFFposition to ON-postion or vice versa.

Due to the built-in memory the relay will maintain its position when the power supply is interrrupted (but the LED is shot off). A short-circuit between pins 5 and 7 while the power supply is interrupted will not be registered by the relay.

Control of the relay either by metallic contact or by NPN-transistor with open collector and the emitter connected to pin 7.

Mode of Operation

Power supply			
Input, pin 5			
Relay ON			

Accessories

- Bases
- Hold down spring
- Mounting rack
- Base covers
- Front mounting bezel

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