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

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 voltage	SPDT relay 250 VAC (rms) (cont./elect.)
Contact ratings (AgCdO) Resistive loads AC DC Small inductive loads AC	0.4 A/250 VDC (100 W) or 4 A/25 VDC (100 W) 15 2.5 A/250 VAC
Mechanical life	13 5 A/24 VDC ≥ 30 x 10 ⁶ operations
Electrical life AC	· ·
Operating frequency	≤ 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withstand	≥ 2 kVAC (rms) (cont./elect.) volt. 4 kV (1.2/50 µs) (cont. elect.) (IEC 60664)



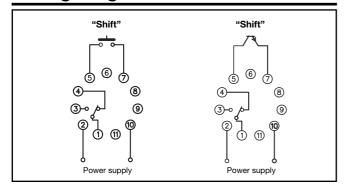
General Specifications

Indication for	LED "		
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 & 10 024 044 111 230 Voltage interruption Dielectric voltage Rated impulse withstand	4 24 VAC ±15%, 45 to 65 Hz 48 VAC ±15%, 45 to 65 Hz 515 VAC ±15%, 45 to 65 Hz 230 VAC ±15%, 45 to 65 Hz ≤ 40 ms 2 kVAC (rms) (supply/elect.)
Power supply DC types Rated operational voltage through pins 2 & 10	,
724	
Dielectric voltage	None (supply/elect.)
Rated impulse withstand	volt. 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