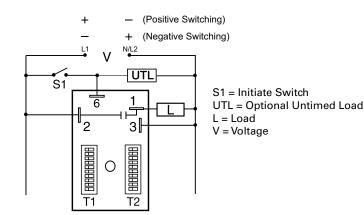


HSPZA22SL

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Description

The HSPZA22SL is a factory programmed module available in any 1 of 13 standard functions. The HSPZA22SL offers dual switch adjustable timer or counter functions. Switch adjustment allows accurate selection of the time delay or number of counts the first time and every time. The 1A steady, 10A inrush rated solid-state output provides 100 million operations, typical. Its microcontroller timing circuit provides excellent repeat accuracy and stability. Encapsulation protects against shock, vibration, and humidity. The HSPZA22SL is a cost effective approach for OEM applications that require small size, solid state reliability, and accurate switch adjustment.

Operation (Single Shot Lockout)

Upon application of input voltage and momentary or maintained closure of S1, the output relay energizes and TD1 single shot time delay begins. The output relay de-energizes at the end of TD1 and the TD2 lockout time delay begins. During TD2 (and TD1) closing switch S1 has no effect on the operation. After TD2 is complete, closing S1 starts another operation. If S1 is closed when input voltage is applied, the output energizes and the TD1 time delay begins.

Reset: Removing input voltage resets the time delays and the output and returns the cycle to the first delay.

Features & Benefits

FEATURES	BENEFITS
Microcontroller based	Repeat Accuracy + / - 0.1%
User selectable time delay	Timing settings are switch selectable 0.1s - 1023h in a dual switch timer function for added flexibility
1A steady, 10A inrush solid-state output	Provides 100 million operations in typical conditions.
Totally solid-state and encapsulated	No moving parts to arc and wear out over time and encapsulated to protect against shock, vibration, and humidity

Accessories



P1015-18 Quick Connect to Screw Adapter Screw adapter terminal designed for use with

all modules with 0.25 in. (6.35 mm) male quick connect terminals.



C103PM (AL) DIN Rail 35 mm aluminum DIN rail available in a 36 in. (91.4 cm) length.

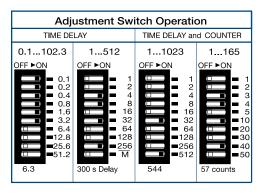


P1023-20 DIN Rail Adapter Allows module to be mounted on a 35 mm DIN

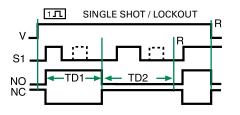
type rail with two #10 screws.

HSPZA22SL





Function Diagrams



V = Voltage S1 = Initiate Switch NO = Normally Open Contact NC = Normally Closed Contact TD1,TD2 = Time Delay R = Reset

Specifications

Time Delay Type Range **Repeat Accuracy** Setting Accuracy **Reset Time Initiate Time** Time Delay vs Temp. & Voltage **Count Range Count Rate** Input Voltage Tolerance **AC Line Frequency/ DC Ripple Power Consumption** Output Type Rating **Voltage Drop OFF State Leakage Current Counter Output** Protection Circuitry **Dielectric Breakdown Insulation Resistance** Polarity **Mechanical** Mounting Dimensions

Termination Environmental

Operating/Storage Temperature Humidity Weight Microcontroller circuitry 1-1023s, m or h in 1s, m or h increments ±0.1% or 20ms, whichever is greater ≤ ±1% or 20ms, whichever is greater ≤ 150ms ≤ 20ms

Expertise Applied | Answers Delivered

 $\leq \pm 2\%$ 1 - 1023 in 2 ranges ≤ 25 counts per second

24 to 240VAC $\leq \pm 15\%$

 $\begin{array}{l} 50/60 \text{Hz}\ / \leq 10\% \\ \text{AC} \leq 2 \text{VA}; \ \text{DC} \leq 1 W \end{array}$

Solid-state output 1A steady, 10A inrush for 16ms AC $\approx 2.5V @ 1A$; DC $\approx 1V @ 1A$ AC $\approx 5mA @ 240VAC$; DC $\approx 1mA$ Output pulse width: 300ms ±20%

 $\begin{array}{l} \mbox{Encapsulated} \\ \geq 2000V \mbox{ RMS terminals to mounting surface} \\ \geq 100 \mbox{ M}\Omega \\ \mbox{DC units are reverse polarity protected} \end{array}$

Surface mount with one #10 (M5 x 0.8) screw H 76.2 mm (3.0"); W 50.8 mm (2.0"); D 38.1 mm (1.5") 0.25 in. (6.35 mm) male quick connects

-40° to 60°C / -40° to 85°C 95% relative, non-condensing \approx 3.9 oz (111 g)