

PCSP Module KRPS ProgramaCube™ Timing Module



Obsolete Specification
Redesigned product is available
see new specifications at:
www.ssac.com/standard/standard.htm

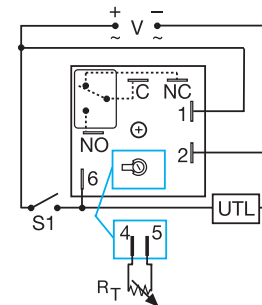
- Microcontroller
- Module Accuracy
- Choice of Functions
- Isolated Contacts
- Input Voltage 120/230 V in 5 Ranges
- Delays from 0.1 s to 1000 h in 9 Ranges

Description

The KRPS Series is a factory programmed module available in any 1 of 11 functions and measures only 2 inches square. The KRPS offers a wide range of fixed or adjustable time delays. Modules are manufactured without the function assigned. When an order is received, the function software is added making the modules complete. This approach provides fast delivery on all part numbers. The output relay contacts offer a full 10 A rating with complete isolation. Its microcontroller timing circuit provides excellent repeat accuracy and stability. Encapsulation protects against shock, vibration, and humidity. The KRPS Series is a cost effective approach for OEM applications that require small size, isolation, accuracy, long life, and In Stock modules. Special time ranges and functions are available; contact Applications Assistance for more information.

Patent Pending

- Approvals:



A knob is supplied for adjustable units, or R_T terminals for external adjust.

- V = Voltage
- C = Common
- NC = Normally Closed
- NO = Normally Open
- S1 = Initiate Switch
- UTL = Untimed Load

Ordering Table

KRPS Series	X Input	X Adjustment	X Time Delay*	X Function**
-1	12 V DC	-1 - Fixed	0.1 ... 10 s	Specify Function (Refer to Function Chart for Code)
-2	24 V AC/DC	-2 - Adjustable	1 ... 100 s	
-4	120 V AC	-3 - External Adjust	10 ... 1000 s	
-5	110 V DC		0.1 ... 10 m	
-6	120/230 V AC		1 ... 100 m	
-7			10 ... 1000 m	
-8			0.1 ... 10 h	
-9			1 ... 100 h	
-9			10 ... 1000 h	

* If Fixed Delay is selected, insert delay [0.1 ... 1000] followed by (S) secs., (M) mins., or (H) hrs.

Example P/N: KRPS923RE
Fixed KRPS9155SI

**Function Chart

- Delay On Make
- Delay On Break
- Recycle (ON Time First, Equal Times)
- Single Shot
- Interval
- Trailing Edge Single Shot
- Inverted Single Shot
- Inverted Delay On Break
- Accumulative Delay on Make
- Motion Detector/Retriggerable
- Single Shot
- Alternating Relay

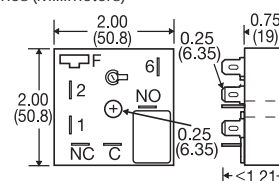
Code
M
B
RE
S
I
TS
US
UB
AM

PS
FT

Technical Data

Time Delay	
Type	Microcontroller circuitry
Range	0.1 s ... 1000 h in 9 adjustable ranges or fixed
Repeat Accuracy	+/-1% or 16 ms @ 60 Hz, 20 ms @ 50 Hz, whichever is greater
Tolerance (Factory Calibration)	≤ +/-2%
Recycle Time	≤ 250 ms
Initiate Time	≅ 40 ms
Time Delay vs Temperature & Input Voltage	≤ +/-2%
Input	
Voltage	12, 24, or 110 V DC; 24, 120, or 120/230 V AC
Tolerance	12 V DC & 24 V DC/AC: -15% ... +20% 110 ... 240 V AC/DC: -20% ... +10%
AC Line Frequency	50 ... 60 Hz
Power Consumption	12 VDC - ≤ 1 W, 24 V AC/DC - ≤ 1 VA 110 V DC - ≤ 2 W, 120/230 V AC - ≤ 2 VA
Output	
Type	Isolated relay contacts
Form	Single pole double throw, SPDT
Rating (at 40°C)	10 A resistive at 125 V AC 5 A resistive at 230 V AC 5 A resistive at 30 V DC, 1/4 hp at 125 V AC
Max. Switching Voltage	250 V AC
Life	Mechanical - 1 x 10 ⁷ operations Electrical - 1 x 10 ⁵ operations at rated load
Protection	
Circuitry	Encapsulated
Isolation Voltage	≥ 1500 V RMS Input to Output
Insulation Resistance	≥ 100 MΩ
Polarity	DC units are reverse polarity protected
Mechanical	
Mounting	Surface mount with one #10 (M5 x 0.8) screw
Package	2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm)
Termination	0.25 in. (6.35 mm) male quick connect terminals
Environmental	
Operating/Storage Temperature	-40°C ... +60°C / -40°C ... +85°C
Humidity	95% relative, non-condensing
Weight	≅ 2.4 oz (68 g)

Inches (Millimeters)



F = Cover (Factory Use Only)

Accessories

<p>External adjust potentiometer P/Ns: P1004-95 (fig A) P1004-95X (fig B)</p>	<p>Quick connect to screw adaptor P/N: P1015-18</p>
<p>Versa-knob P/N: P0700-7</p>	<p>DIN rail adaptor C103PM</p>
<p>Female quick connect P/N: P1015-64(AWG14/16)</p>	<p>DIN rail adaptor P1023-20</p>

See accessory pages at the end of this section.