ABB KSDR1A01 02.17.03

Recycling (Pulse Generator) KSDR Digi-Timer **Timing Module**





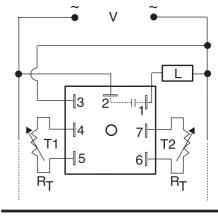
- ON Delay and OFF Delay Independently Adjustable
- ON Time or OFF Time First Low Cost, Digital Circuitry
- Delays from 0.1 s ... 1000 m
- +/-0.5% Repeat Accuracy
- Totally Solid State & Encapsulated Circuitry

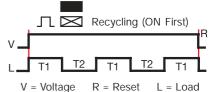
Description

The KSDR is an extended version of the TSDR Series, for those demanding systems requiring low cost and flexibility. Independent time adjustment of both delay periods allows precise, efficient control for both automatic and manual adjustment systems. The KSDR is re-commended for air drying, automatic oiling, life testing, chemical metering, and automatic duty cycling.

Operation

Upon application of input voltage, the output is energized and the ON time begins. At the end of the ON time, the output de-energizes and the OFF time begins. At the end of the OFF time, the output is energized and the cycle repeats as long as input voltage is applied. The OFF time may be the first delay in some recycling timers. Reset: Removing input voltage resets the output and time delays, and returns the sequence to the first delay.





V = Voltage R = Reset T1 = ON Time T2 = OFF Time

Ordering Table

KSDR Series

Input

-2 - 24 V AC -4 - 120 V AC -6 - 230 V AC

ON Time -**0** - 0.1 ... 10 s –**1** - 1 ... 100 s **-2** - 10 ... 1000 s -**3** - 0.1 ... 10 m -**4** - 1 ... 100 m

-**5** - 10 ... 1000 m

Operating Sequence -A - ON Time First

B - OFF Time First

OFF Time -<mark>0</mark> - 0.1 ... 10 s –**1** - 1... 100 s -2 - 10 ... 1000 s -**3** - 0.1 ... 10 m -**4** - 1 ... 100 m └<mark>-5</mark> - 10 ... 1000 m

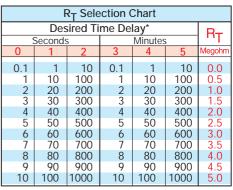
Example P/N: KSDR40A1

Technical Data

Time Delay		
Type	Digital integrated circuitry	
Range	0.1 s 1000 m in 6 ranges	
	Note: Range 0 and 5 may not be	
	combined in the same unit	
Repeat Accuracy	+/-0.5%	
Tolerance (Factory Calibration)	≤+/-10%	
Reset Time	150 ms	
Time Delay vs. Temperature & Voltage	≤+/-10%	
Input		
Voltage	24, 120, or 230 V AC	
Tolerance	+/-20%	
Line Frequency	50 60 Hz	
Output		
Туре	Solid state	
Rating	1 A steady state, 10 A inrush at 55°C	
Voltage Drop	≅ 2.5 V at 1 A	
Protection		
Circuitry	Encapsulated	
Dielectric Breakdown	≥ 2000 V RMS terminals to mounting surface	
Insulation Resistance	≥ 100 MΩ	
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 Temperature	-40°C +75°C	
Storage Temperature	-40°C +85°C	
Humidity	95% relative, non-condensing	
Weight	≅ 2.4 oz (68 g)	
1	1	

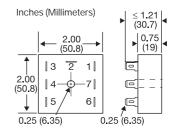
ON Time		
Time Delay	VTP P/N	
0 – 0.1 10 s	VTP5C	
1 - 1 100 s	VTP5G	
2 – 10 1000 s	VTP5K	
3 – 0.1 10 m	VTP5N	
4 – 1 100 m	VTP5P	
5 – 10 1000 m	VTP5R	

OFF Time		
Time Delay	VTP P/N	
0 – 0.1 10 s	VTP5C	
1 - 1 100 s	VTP5G	
2 - 10 1000 s	VTP5K	
3 - 0.1 10 m	VTP5N	
4 – 1 100 m	VTP5P	
5 – 10 1000 m	VTP5R	

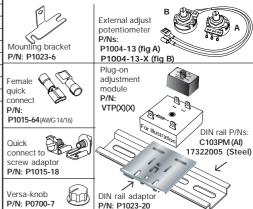


NOTE: Time ranges 0 & 5 cannot be ordered in the same unit

* When selecting an external R_T add at least 20% for tolerance of unit and the R_T.







See accessory pages at the end of this section.