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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Timers Delay on Operate Types FAA01, FAA08



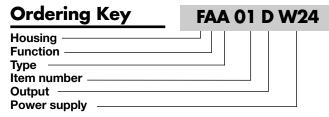


Product Description

Delay on operate timer with 4 functions and selectable time ranges from 0.05 seconds to 300 hours.

Housing 48 x 48 mm for front panel mounting and on 8-pin or 11-pin socket.

- Time range 0.05 s to 300 h
- · Knob selection of time range
- Knob adjustable time setting
- Knob selection of operating mode (4 functions):
 - Op delay on operate
 - R symmetrical recycler ON first
 - In interval
 - Sh one shot
- Automatic start
- Repeatability: ±0.2% on full scale
- Output: 8 A DPDT relay
- 48 x 48 mm housing for front panel mounting
- 8 or 11 pin socket
- LED indication for relay status and power supply ON



Type Selection

Mounting	Output	Plug	Supply: 12 to 240 VAC/DC
Front or socket Front or socket	DPDT DPDT	 11-pin 8-pin	FAA01DW24 FAA08DW24

Time Specifications

Time ranges Knob selectable			
Full scale 12	0.02 0.2 2 0.2 2 0.2 2 0.2 2	to to to to to to	1.2s 12s 120s 12min 120min 12h 120h
Full scale 30	0.05 0.5 5 0.5 5 0.5 5 5	to to to to to to	3s 30s 300s 30min 300min 30h 300h

Setting accuracy	\pm 5% on full scale \pm 50 ms
Repeatability	\pm 0.2% on full scale or \pm 200 ms
Time variation Within rated power supply Within ambient temperature	≤ 0.05% /V ≤ 0.2% /°C
Reset Power supply interruption	>100 ms Note When the time knob is below "0" the output activates instantaneously

Output Specifications

Output Rated insulation voltage	DPDT relay 250 VAC		
Contact ratings (AgSnO ₂)	μ	Operating frequency	≤ 3600 operations/h
Resistive loads AC 1 DC 12 Small inductive loads AC 15 DC 13	8 A @ 250 VAC 5 A @ 24 VDC 2.5 A @ 250 VAC 2.5 A @ 24 VDC	Dielectric strength Dielectric voltage Rated impulse withstand volt.	≥ 2 kVAC (rms) 4 kV (1.2/50 µs)
Mechanical life	\geq 30 x 10 ⁶ operations		



Supply Specifications

Power Supply Rated operational verthrough terminals:	oltage	Overvoltage cat II (IEC 60947-1)	Indication f Power sup Output ON
(FAA01DW24)	2, 10	12 to 240 VDC + 10% - 15%	
(FAA08DW24)	2, 7	12 to 240 VAC + 10% -15%, 45 to 65 Hz 12 to 240 VDC + 10% - 15% 12 to 240 VAC + 10% -15%, 45 to 65 Hz	Environmen Degree of Operating Storage te
Power consumption Rated operational power AC DC			Housing Dimension Material
		3 VA 1.5 W	Weight
	20	1.0 11	Approvals
			CE marking
			EMC Immunity Emission
			Timer enec

General Specifications

Indication for Power supply On Output ON	LED, green LED, yellow (flashing when timing)
Environment	
Degree of protection Operating temperature Storage temperature	IP 50 (front panel) -10 to +55 °C, R.H. < 85% -10 to +55 °C, R.H. < 85%
Housing	
Dimensions Material	48 x 48 mm PA66
Weight	Approx. 95 g
Approvals	UL, CSA
CE marking	Yes
EMC Immunity Emission	Electromagnetic Compatibility According to EN 61000-6-2 According to EN 61000-6-3
Timer specifications	According to EN 61812-1

Mode of Operation

Function Op Delay on operate

The set delay period begins as soon as the power supply is connected. At the end of the set delay the relay operates and doesn't release until the power supply is interrupted for at least 100 ms.

Function R Symmetrical recycler (ON first)

The relay operates and the time period start as soon as the power is applied. At the end of the first set time period, the relay releases. At the end of the second time period (equal to the first), the relay operates again. This sequence continues with equal ON- and OFF- time periods until the power supply is interrupted for at least 100 ms.

Function In Interval

The relay operates and the time period begins as soon as the power is applied. The relay releases at the end of the time period or when the power supply is disconnected for at least 100 ms.

Function Sh One shot

The time period begins as soon as the power supply is connected and at the end of this period the relay operates for 1s.

Function and Time Setting

Lower left knob:

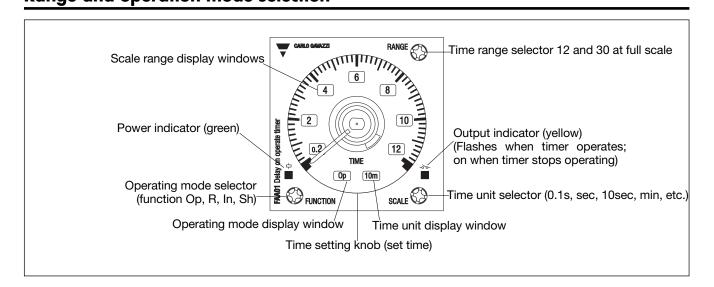
Setting of function Op - delay on operate R - simmetrical recycler In - interval Sh - one shot Lower right knob: Time unit selector 0.1sec (0.1 seconds) sec (seconds) 10sec (10 seconds) min (minutes) 10m (10 minutes) hrs (hours) 10h (10 hours)

Upper right knob: Time range selector

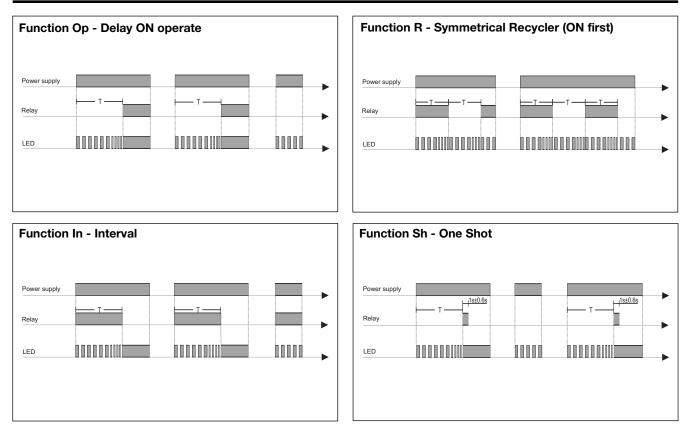
Time range selector 12 or 30 Centre knob: Time setting on absolute scale

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Range and operation mode selection

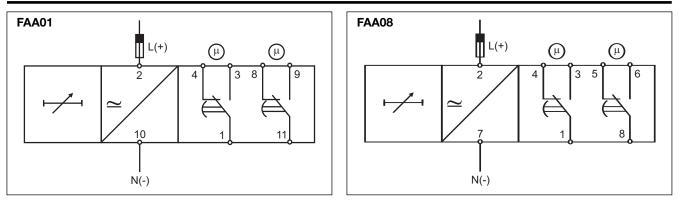


Operating Diagrams





Wiring Diagrams



Dimensions

