Timers **Delay on Operate** Types HAA08, HAA14



Product Description

Delay on operate timer with 4 functions and selectable time ranges from 0.1 seconds to 100 hours.

Housing 21.5 x 28 mm with				
8-pin	and	14-pin	blade	
socket.				

- Time range 0.1 s to 100 h
- · Dip-switch selection of time range
- Knob adjustable time setting
- Dip-switch selection of operating mode (4 functions):

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HAA 08 D M24

- Op delay on operate
- R symmetrical recycler ON first Rb symmetrical recycler OFF first
- In interval
- · Automatic start
- Repeatability: ± 0.3% on full scale •
- Output: 8 A DPDT relay (HAA08), 5 A 4PDT relay (HAA14)
- 21.5 x 28 mm housing
- 8-pin, 14-pin blade socket for HAA08, HAA14 respectively
- LED indication for relay status and power supply ON

Ordering Key

Housing Function Туре Item number Output **Power supply**

Type Selection

Mounting	Output	Plug	
Socket	DPDT	8-pin	
Socket	4PDT	14-pin	

Time Specifications

Time ranges Dip-switch selectable	0.1	to	1.0 s
	1	to	
	0.1	to	
	1	to	
	0.1 1	to to	
	10	to	
Setting accuracy			ull scale \pm 200 ms
Repeatability	± 0.3		full scale
Time variation			
Within rated power supply Within ambient temperature		5% /\ % /° (
Reset Power supply interruption	>100	ms	

Output Specifications

Supply: 24 to 240 VAC/DC

HAA08DM24 HAA14QM24

Output Rated insulation voltage	DPDT or 4PDT relay 250 VAC	
Contact ratings (AgCe) HAA08 (DPDT)	μ	
Resistive loads AC 1 DC 12	8 A @ 250 VAC 8 A @ 30 VDC	
Small inductive loads AC 15 DC 13	2.5 A @ 250 VAC 2.5 A @ 30 VDC	
HAA14 (4PDT)		
Resistive loads AC 1 DC 12	5 A @ 250 VAC 5 A @ 30 VDC	
Small inductive loads AC 15 DC 13	1.5 A @ 250 VAC 1.5 A @ 30 VDC	
Mechanical life	\geq 1 x 10 ⁷ operations	
Electrical life		
Operating frequency	≤ 18000 operations/h	
Dielectric strength Dielectric voltage Rated impulse withstand volt.	≥ 2 kVAC (rms) 3.6 kV (1.2/50 μs)	



Supply Specifications

Power Supply Rated operational voltage through terminals: 13, 14	Overvoltage cat II (IEC 60947-1) 24 to 240 VDC + 10% - 15% 24 to 240 VAC + 10% -15%, 45 to 65 Hz	
Rated operational power AC supply DC supply	4 VA 1.5 W	

General Specifications

Indication for

Power supply, relay and timing status

LED, yellow (steady with relay closed, flashing 10 Hz when timing with relay open, flashing 2 Hz after In function set time ending (relay open))

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	21.5 x 28 mm PA66
Weight	Approx. 95 g
Approvals	UL (240 V 5A general use, 240 V 1/10 hp, all models) CSA (240 V 5A general use, 240 V 1/10 hp, all models)
CE marking	Yes
EMC Immunity Emission	Electromagnetic Compatibility According to EN 61000-6-2 According to EN 61000-6-3

General Specifications (cont.)

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 does not 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 supply 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.

No function

Function selection

ON OFF: In interval

ON ON: Op delay on operate

OFF ON: **Rb** symmetrical recycler (OFF first) OFF OFF: **R** symmetrical recycler (ON first)

Function Rb Symmetrical recycler (OFF first)

The time period begins as soon as the power supply is applied. The relay is OFF during the set delay period, after this time it operates for the same time period. This sequence continues with equal OFF- and ON-time periods until 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/Range/Time Setting

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Adjust the time range setting the DIP switches 1 to 3, the function setting the DIP switches 4 and 5 as shown below.

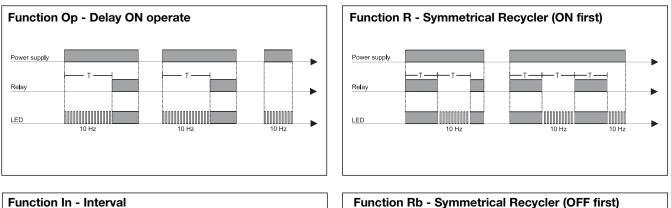
Centre knob:

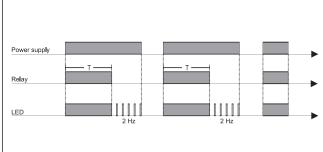
Time setting on relative scale: 1 to 10 with respect to the chosen range.

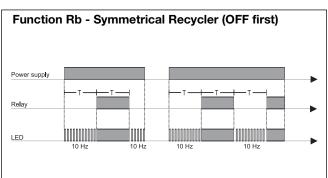




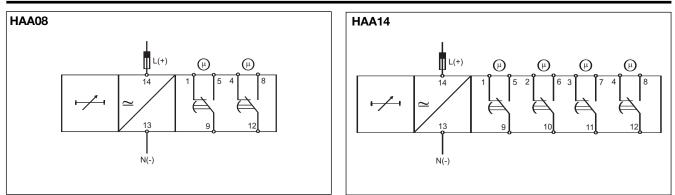
Operating Diagrams



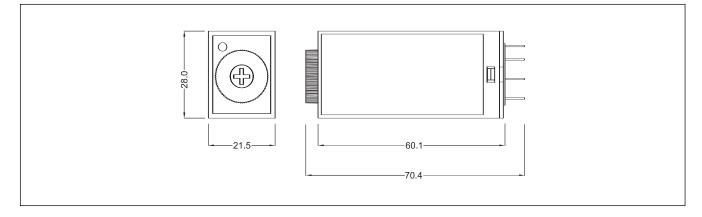




Wiring Diagrams



Dimensions



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