Timers Delay on Release Types DBA02, PBA02





Product Description

Multi-voltage delay on release timer with 7 knob selectable time ranges with-in 0.1 s and 100 h. For

mounting on DIN-rail (DBA02) or Plug-in (PBA02).

DISAI Automatic Systems

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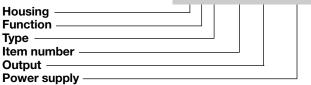
- Time range 0.1 s to 100 h
- Knob selection of time range
- Knob-adjustable time setting
- Repeatability: ≤ 0.2%
 Output: 8 A SPDT relations
- Output: 8 A SPDT relay
- For mounting on DIN-rail in accordance with DIN/EN 50 022 or Plug-in

CARLO GAVAZZI

DBA 02 C M24

- 22.5 mm Euronorm or 36 mm Plug-in module housing
 Optimized AO and DO
- Combined AC and DC power supply
- LED indication for relay status and power supply ON

Ordering Key



Type Selection

Mounting	Output	Housing	
DIN-rail	SPDT	D-Housing	
Plug-in	SPDT	P-Housing	

Time Specifications

Time ranges

lime ranges	
Knob Selectable	0.1 to 1 s 1 to 10 s 6 to 60 s 60 to 600 s 0.1 to 1 h 1 to 10 h 10 to 100 h
Setting accuracy	≤5%
Repeatability	≤ 0.2%
Time variation Within rated power supply Within ambient temperature	≤0.05%/V ≤0.2%/⁰C
Reset Manual reset of time and/or relay Pulse duration Power supply interruption	Close the trigger contact between pins A1 and Y1 or 2 and 5 ≥ 100 ms ≥ 200 ms

Supply: 24 VDC and 24 to 240 VAC

DBA 02 C M24 PBA 02 C M24

Output Specifications

Output		SPDT relay
Rated insulation voltage		250 VAC (rms)
Contact Ratings (Ag Resistive loads Small inductive loads	SnO ₂) AC 1 DC 12 AC 15	μ 8 A @ 250 VAC 5 A @ 24 VDC 2.5 A @ 250 VAC
	DC 13	2.5 A @ 24 VDC
Mechanical life		\geq 30 x 10 ⁶ operations
Electrical life		\geq 10 ⁵ operations (at 8 A, 250 V, cos ϕ = 1)
Operating frequency		< 7200 operations/h
Dielectric strength Dielectric voltage Rated impulse withstand volt.		2 kVAC (rms) 4 kV (1.2/50 μs)

Supply Specifications

Power supply Rated operational voltage through terminals: (DBA01C) A1, A2	Overvoltage cat. III (IEC 60664, IEC 60038) 24 VDC ±15% and
(PBA01C) 2, 10	24 to 240 VAC +10%/-15%, 45 to 65 Hz
Voltage interruption	≤ 10 ms
Rated operational power AC supply DC supply	4 VA 1.5 W



General Specifications

	≤ 100 ms
	LED, green
	LED, yellow
	(flashing when timing)
	(EN 60529)
า	IP 20
	3 (DBA02), 2 (PBA02)
	(IEC 60664)
ure	-20 to 60°C, R.H. < 95%
е	-30 to 80°C, R.H. < 95%
DBA02	22.5 x 80 x 99.5 mm
PBA02	36 x 80 x 94 mm
	ure e DBA02

Weight	Approx. 130 g
Screw terminals Tightening torque	Max. 0.5 Nm according to
	IEC 60947
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

The relay operates as soon as the trigger contact is closed. The time period begins when the trigger contact is opened. The relay releases at the end of the set delay time or when the power supply is disconnected. The relay operates again when the input contact is closed again. If it is closed before the end of the delay time the relay keeps ON, a new time period begins as soon as the trigger contact is opened again.

Additional Load

It's possible to wire an additional load (i.e. a relay) between pins Y1 and A2, or 5 and 10, driven by the trigger contact without damaging the device (see wiring diagram). Yellow LED working mode Timing: Slow blinking Relay ON: See operation diagrams

Incorrect knobs position: Fast blinking

Time Setting

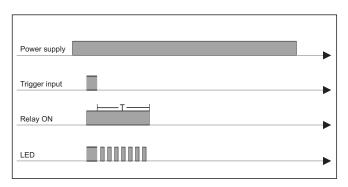
Centre knob:

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

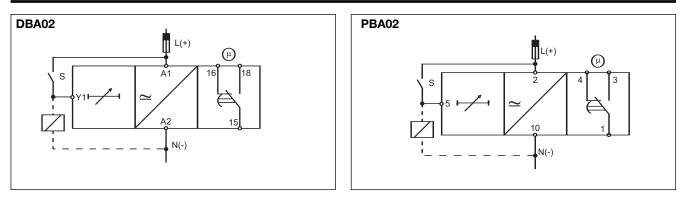
Lower knob:

Lower knob: Setting of time range.





Wiring Diagrams





Dimensions

