捷多邦,专业PCB打样工厂,24小时加急出货

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Timers **Multifunction** Types DMB01, PMB01





Product Description

Multi-voltage timer with 7 knob selectable functions and 7 knob selectable time ranges within 0.1s and WWW.DZSC.COM

100h. For mounting on DINrail (DMB01) or Plug-in (PMB01).

Time range 0.1 s to 100 h 7 knob selectable functions:

In

- Ор delay on operate
 - interval
- interval on trigger open lo
- ld double interval
- Dr delay on release R
 - symmetrical recycler ON first

CARLO GAVAZZI

- symmetrical recycler OFF first Rb
- Knob selection of time range
- Knob-adjustable time setting
- Automatic or manual start
- Repeatability: $\leq 0.2\%$ •
- Output: 8 A SPDT or 8 A DPDT relay
- For mounting on DIN-rail in accordance with DIN/EN 50 022 or Plug-in
- 22.5 mm Euronorm or 36 mm Plug-in module housing
- Combined AC and DC power supply
- LED indication for relay status and power supply ON

Ordering Key DMB 01 C M24

Housing	
Function	
Туре	
Item number	
Output	
Power supply ——	

Type Selection

Mounting	Output	Housing	Supply: 24 VDC and 24 to 240 VAC	Supply: 24 to 240 VAC/DC
DIN-rail	SPDT	D-Housing	DMB 01 C M24	BURGE BURG
Plug-in	DPDT SPDT	P-Housing	PMB 01 C M24	DMB 01 D M24
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Time Specifications

Time 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 100h
Setting accuracy	≤ 5%
Repeatability	≤ 0.2%
Time variation Within rated power supply Within ambient temperature	≤0.05%/V ≤0.2%/°C
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 \geq 100 ms \geq 200 ms
Automatic start	Connect pins A1 and Y1 or 2 and 5
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Output Specifications

O street		
Output		SPDT or DPDT relay
Rated insulation voltage		250 VAC (rms)
Contact Ratings (AgSnO ₂)		μ
Resistive loads	AC 1	8 A @ 250 VAC
	DC 12	5 A @ 24 VDC
Small inductive loads	AC 15	2.5 A @ 250 VAC
- 1 h	DC 13	2.5 A @ 24 VDC
Mechanical life	C 44	\geq 30 x 10 ⁶ operations
Electrical life		≥ 10 ⁵ operations
		(at 8 A, 250 V, $\cos \varphi = 1$)
Operating frequency		< 7200 operations/h
Dielectric strength		
Dielectric voltage	2 kVAC (rms)	
Rated impulse withstand volt.		4 kV (1.2/50 μs)



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Supply Specifications

Power supply Rated operational voltage through terminals: (DMB01C) A1, A2 (PMB01C) 2, 10 (DMB01D) A1, A2 (PMB01D) 2, 10	Overvoltage cat. III (IEC 60664, IEC 60038) 24 VDC ±15% and 24 to 240 VAC +10%/-15%, 45 to 65 Hz 24 to 240 VAC/DC +10%/-15%, 45 to 65 Hz
Voltage interruption	≤ 10 ms
Rated operational power AC supply DC supply	4 VA 1.5 W

Function and Time Setting

Upper knob:

Setting of function:

- Op delay on operate
- In interval
- lo interval on trigger
- open
- ld double interval
- Dr delay on release R - symmetrical recycler
- (ON first)
- Rb symmetrical recycler (OFF first)

Centre knob:

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

Lower knob: Setting of time range.

General Specifications

Power ON delay	≤ 100 ms
Indication for	
Power supply ON	LED, green
Output relays ON	LED, yellow
	(flashing when timing)
Environment	(EN 60529)
Degree of protection	ÎP 20
Pollution degree	3 (DMB01), 2 (PMB01)
	(IEC 60664)
Operating temperature	-20 to 60°C, R.H. < 95%
Storage temperature	-30 to 80°C, R.H. < 95%
Housing dimensions	
DIN-rail version	22.5 x 80 x 99.5 mm
Plug-in version	36 x 80 x 94 mm
Weight	Approx. 130 g
Screw terminals	
Tightening torque	Max. 0.5 Nm according to
	IEC EN 60947
Approvals	UL, CSA
	RINA (DMB01 only)
CE Marking	Yes
EMC	Electromagnetic Compatibility
Immunity	According to EN 61000-6-2
Emission	According to EN 61000-6-3
Timer Specifications	According to EN 61812-1

Mode of Operation

Function Op

Delay on operate The time period begins as soon as the trigger contact is closed.

At the end of the set delay time the relay operates and doesn't release until the trigger contact is closed again or the power supply is disconnected. If the trigger contact is closed before the end of the delay time, the device resets and a new time period starts.

Function In Interval

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

Function lo

Interval on trigger open The relay operates and the time period begins as soon as the trigger contact is opened. At the end of the set delay or when the power supply is disconnected the relay releases. The relay operates again when the trigger contact is opened again. If the trigger contact is opened before the end of the delay time the relay keeps ON and a new time period begins.

Function Id Double interval

The relay operates and the time period begins as soon as the trigger contact is closed. The relay releases at the end of this period or when the power supply is disconnected. When the trigger contact is opened the relay operates again for the set delay period. If the trigger contact is opened before the end of the first time period the second one begins; if the trigger contact is closed before the end of the second time period the relay keeps ON and the first time period begins again.

Function Dr Delay on release

The relay operates as soon as the trigger contact is closed. The time period

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 contact is opened again.

Function R Symmetrical recycler, ONtime period first

The relay operates and the time period begins as soon as the input contact is closed. After the set delay period the relay releases for the same time period. This sequence continues with equal ON- and OFF-time periods until the power supply is interrupted.

Function Rb Symmetrical recycler, OFF-time period first

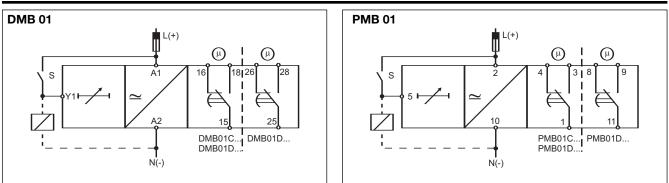
The time period begins as soon as the input contact is closed. The relay is OFF during the set delay period, after this time it operates for the same time period. This sequence continues with equal OFF- and ON-time periods until power supply is interrupted.



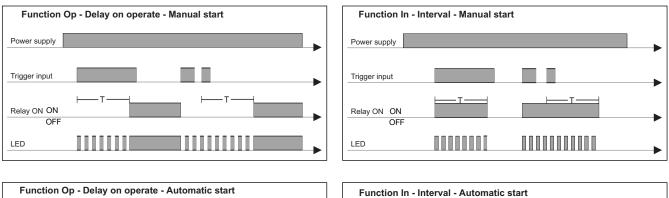
Mode of Operation (cont.)

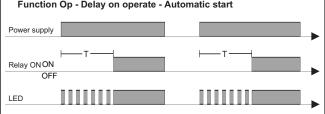
Additional Load It's possible to wire an additional load (i.e. a relay) between pins Y1 and A2, or 5 and 10, driven by the trigger contact without damaging the device (see wiring diagram). Yellow LED working mode Timing: Slow blinking Relay ON: See operation diagrams Incorrect knobs position: Fast blinking

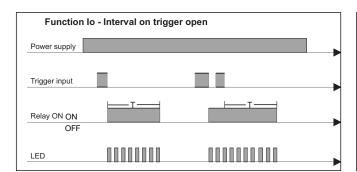
Wiring Diagrams

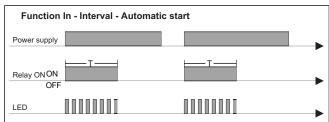


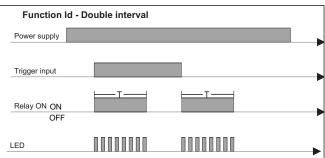
Operation Diagrams





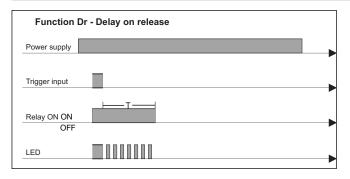


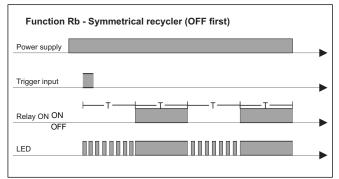


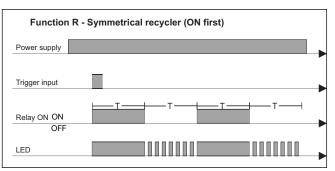




Operation Diagrams (cont.)







Dimensions

