② E □ A MTR30 Mechanical Timer Relay

Description

The MTR30 timer relay combines a well-proven mechanical contact system with the flexibility of an electronic timer. As a replacement for standard automotive relays, the MTR30 provides a possibly missing ON or OFF delay.

The MTR30 timer relay can be adjusted on site by means of a position switch with 10 positions and a potentiometer on the housing top with a small screw driver. Depending on the version ordered, the 10 positions of the position switch are assigned different functions and time windows. The exact time window can be adjusted with the potentiometer.

The MTR30 is suitable for standard automotive relay sockets according



The MTR30 timer relay is available for DC 12 V and DC 24 V

Typical applications:

- Passenger cars
- Trucks

applications.

- Buses
- Construction machinery and emergency cars

Typical applications:

- Control of pumps, valves, lamps or motors, which are meant to overtravel or stay open for a defined time period.
- Coordinated, sequential switch-on of loads to avoid load peaks (e.g. with fans).

Benefits

- The MTR30's design ensures reverse polarity protection and is supplied with roughly pre-set timer settings. This saves time and avoids errors in production.
- The MTR30 easily provides any vehicle with ON and OFF delay without changing the controlgear software. It is sufficient to replace the standard relay by the MTR30 in the power distribution system.
- The high flexibility of the MTR30 timer relay eliminates the need of additional timer relays. Complexity of stock keeping and related costs are cut drastically.

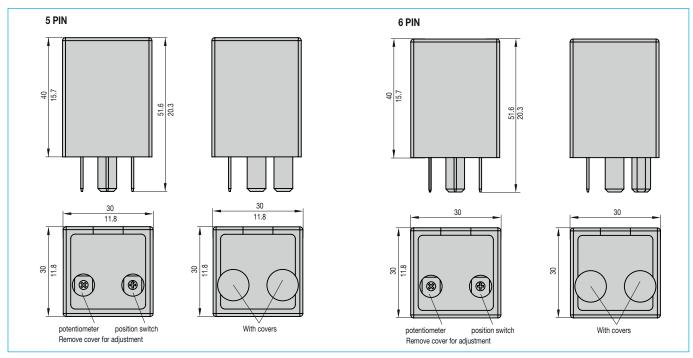
Qualifications	
Degree of protection	IP50
Noise immunity	95/54 EG & DIN 40839
E1 number	upon request.

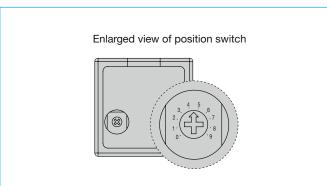


Operating voltage Quiescent current	<10 mA		
Tolerance	5 %	5 %	
Time range	00.000.01. 1.0.0	selection via order numbering key	
Response time	< 100 ms	< 100 ms	
Switching time ON Switching time OFF	typically 10ms typically 5ms	typically 10ms typically 5ms	
Operating temperature	-40 °C85 °C		
Typical life at rated current	100,000 cycles		
Mass	30 Gramm	30 Gramm	
Dimensions (lxwxh)	30 mm x 30 m	30 mm x 30 mm x 40 mm	
Materials			
Blade terminals	A 6.3 x 0.8 DIN 46 244 CuZn 37 F37		
Housing material	PA6GF	PA6GF	
Output	change-over c	change-over contact	
Continuous current	10 A 30 A upon request		

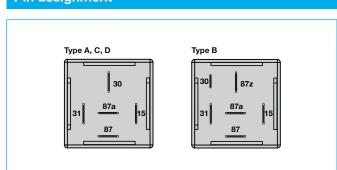
②EFA MTR30 Mechanical Timer Relay

Dimensions







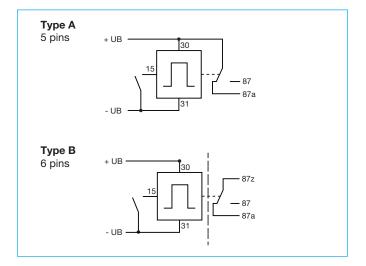


❷ E F A MTR30 Mechanical Timer Relay

Schematic diagram / Pin assignment / Positive actuation

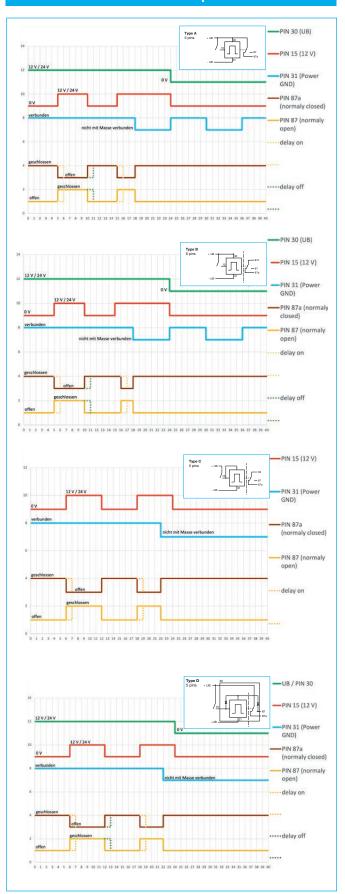
Type B 6 pins + UB - U

Schematic diagram / Pin assignment / Negative actuation

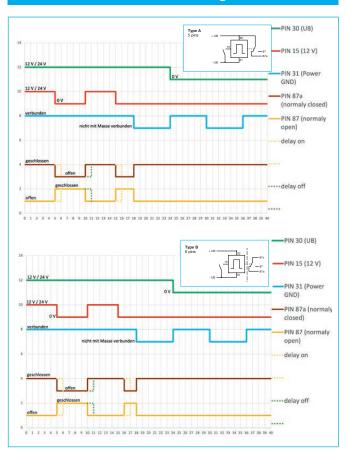


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Status chart / actuation level positive



Status chart / actuation level negative



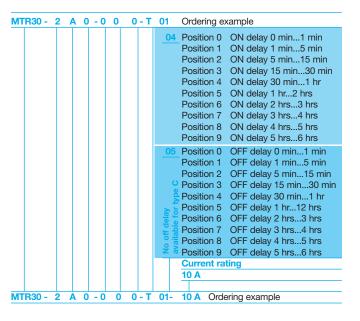
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Ordering number code MTR30 Mechanical timer relay Operating voltage Function / pin assignment Type A Type B Type C (no OFF delay available) Type D Option 1 Actuation - Actuation level positive voltage and retro-triggerable (not available for type C) Actuation - Actuation level by way of mass and retro-triggerable (not available for type C or type D) Actuation - Actuation level positive voltage not retro-triggerable Actuation - Actuation level by way of mass not retro-triggerable (not available for type C or type D) without Option : without Option 4 You can choose between 10 different settings (functions and time windows) via position switch 01 Position 0 OFF delay 0.5 sec...10 sec Position 1 OFF delay 5 sec...60 sec OFF delay 0.5 min...10 min Position 2 Position 3 OFF delay 5 min...60 min Position 4 OFF delay 0.5 hrs...6 hrs Position 5 ON delay 0.5 hrs...6 hrs Position 6 ON delay 5 min ..60 min Position 7 ON delay 0.5 min...10 min Position 8 ON delay 5 sec...60 sec Position 9 ON delay 0.5 sec...10 sec 02 Position 0 OFF delay 0.5 sec...3 sec Position 1 OFF delay 2 sec...12 sec Position 2 OFF delay 5 sec...30 sec Position 3 OFF delay 20 sec...120 sec OFF delay 0.5 min...3 min Position 4 Position 5 OFF delay 3 min...12 min Position 6 OFF delay 5 min...30 min OFF delay 20 min...120 min Position 7 Position 8 OFF delay 0.5 hrs...3 hrs Position 9 OFF delay 2 hrs...12 hrs 03 Position 0 OFF delay 0.5 sec...3 sec Position 1 ON delay 2 sec...12 sec Position 2 ON delay 5 sec...30 sec ON delay 20 sec...120 sec Position 3 Position 4 ON delay 0.5 min...3 min ON delay 3 min...12 min ON delay 5 min...30 min Position 6 Position 7 ON delay 20 min...120 min Position 8 ON delay 0.5 hrs...3 hrs Position 9 ON delay 2 hrs...12 hrs

Ordering example

MTR30 - 2 A 0 - 0 0 0 - T 01

Ordering number code



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