

## COUNT DOWN TIMERS / RELAYS

müller MR 28.10 pro



### Overview

- Digital multifunctional relay
- 1 channel [CO]
- 20 functions
- Time range 0,1s up to 999h
- Minimum interval 0,1s
- Free adjustable time range
- \*Power Fail Security (adjustable)
- \*Security Request after Power Fail (adjustable)
- Elapsed time and pulse counter
- Security by PIN-Code
- Display with three text lines
- External input

\*An interruption of the devices power supply turns off the relay. The state of the relay and the already elapsed time are saved and loaded on resumption of power supply. The saved state prior and the elapsed time to the power failure will be recovered after resumption of power supply. This process can be protected by a security request.

### Highlights

- Text based menu and self-explanatory symbols
- Display with three high resolution text lines
- Easy handling. Quick and intuitive programmable
- Can be programmed with supply disconnected (10 years battery-reserve)
- Unlimited program security by E<sup>2</sup>-PROM

### Supply voltage versions

- 230 V 50-60 Hz
- 24 V ACDC

### Order numbers

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MR 28.10 pro

999:59:59:9

hhh:mm:ss:1/10s

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### Order information

	Voltage	EAN	Art. No.
<b>MR 28.10 pro</b>	230 V 50-60 Hz	4022709227447	22744
Other supply voltage versions on request			

### Technical data

Supply voltages (please state when ordering)	230 V, 50–60 Hz
Power consumption (real power)	230 V, 50–60 Hz version = 0,4–1,1 W 24 V AC / DC version = 0,2 - 1,1 W (depending on the switching status)
Channel (potential-free)	Change-over, contact gap < 3 mm ( $\mu$ )
Control input	voltage and phase of power supply
Contact material	AgNi + Au (hard gold plated contact)
Switching capacity per channel	
resistive load:	16 A / 250 V~ at $\cos\phi=1$
inductive load:	10 A at $\cos\phi=0,6$
Min. switching power	50 mW (5 V / 2 mA)
Max. starting current	30 A
Functionality	20 different functions
Time range (free adjustable)	000:00:00:1 up to 999:59:59:9 [hh:mm:ss:1/10s]
Minimum interval	0,1 sec.
Debouncing time / operating time	max. 64 msec.
Reactivation time	max. 1,5 sec.
Time base	Quartz
Quartz accuracy (at 20 °C)	$\leq \pm 0,5$ sec./day (Quartz accuracy optimized for typical ambient conditions)
Lifespan relay	10 A = approx. 100,000 switchings
Program security	unlimited (E <sup>2</sup> -Prom)
Display	high resolution LCD 15 mm (visible area 7,5 mm <sup>2</sup> )
Permitted ambient temperature	-30 °...+55 °C
Housing	self-extinguishing thermoplastic
Dimensions	45 x 35 x 58 mm
Mounting	35 mm DIN-rail
Type of connection	Screw terminals (pull-up type)
Type of protection	IP 20 to DIN EN 60529
Class of protection	II when installed according to regulations

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