Time relays Ex9TR



- Rated operating voltage 12 240 V AC/DC
- Adjustable time range
- Manual control switches on the front side
- Types of time relay

Single-function: Delay ON
Single-function: Interval ON
Single-function: Flasher
Multifunction: 10 functions

Asymmetric cycler

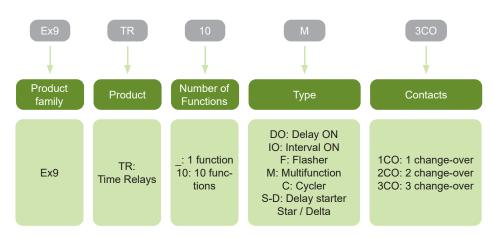
• Delay starter Star / Delta

Ex9TR time relays are used in automation, control and regulation (ventilation, lighting, heating, etc.). All our time relays can be powered by universal voltage 12 - 240 V AC/DC. The devices have manual control switches on the front for setting the time.

Types of time relay:

- Single-function time relay are offered in 3 types (Delay ON, Interval ON and Flasher).
- Multifunction time relay contains 10 adjustable functions with 1 or 3 changeover contacts.
- Asymmetric cycler with the possibility of setting the closing and opening time.
- Delay starter Star / Delta designed for starting motors.

Type Key



Certification marks





Time relays Ex9TR

Single-function time relays

- Universal supply voltage 12 240 V AC/DC
- Adjustable time from 0.1 s to 100 h in 10 different intervals
- Fine set the time in the selected time interval (1-10)
- 3 types of relay : DO Delay ON, IO Interval ON, F Flasher
 Control input "S" to pause timing



Supply voltage U _e	Function	Contacts	Article No.	Туре	Packing
12 - 240 V AC/DC	Delay ON	1 CO	111731	Ex9TR DO 1CO	1/10/120
12 - 240 V AC/DC	Interval ON	1 CO	111737	Ex9TR IO 1CO	1/10/120
12 - 240 V AC/DC	Flasher	1 CO	111738	Ex9TR F 1CO	1/10/120

Multifunction time relays

- Universal supply voltage 12 240 V AC/DC
- Adjustable time from 0.1 s to 10 days in 10 different intervals
- Fine set the time in the selected time interval (1 10)
- 10 setable functions
- Versions with 1x 16 A changeover contact or 1x 16 A + 2x 8 A changeover contacts



Supply voltage U _e	Function	Contacts	Article No.	Туре	Packing
12 - 240 V AC/DC	Multifunction	1 CO	111732	Ex9TR 10M 1CO	1/10/120
12 - 240 V AC/DC	Multifunction	3 CO	111733	Ex9TR 10M 3CO	1/10/120

Asymmetric cycler

- Universal supply voltage 12 240 V AC/DC
- Adjustable time from 0.1 s to 100 days in 10 different intervals
- Fine set the time in the selected time interval (1 10)
- · Possibility of setting the cycle time interval and the gap
- · Cycler starting with a pulse or a gap



Supply voltage U _e	Function	Contacts	Article No.	Type	Packing
12 - 240 V AC/DC	Cycler	1 CO	111729	Ex9TR C 1CO	1/10/120



Technical Data Ex9TR 10M

Multifunction time relay

General parameters

Time adjustment range from 0.1 s to 10 days

Version with 1 changeover contact or with 3 changeover contacts

10 adjustable time functions

5 functions controlled by input voltage and 5 functions controlled by control contact

Manual control switches for time interval, fine time setting and function selection on the front

Electrical parameters					
	Ex9TR 10M 1CO Ex9TR 10M 3CO		0M 3CO		
Functions	10 adjustable functions				
Tested according to	EN 61812-1				
Rated operating voltage U _e	12 - 240 V AC/DC				
Operating voltage tolerance	- 15 %; +10 %				
Rated frequency f	50/60 Hz				
Rated current I _e	16 A / AC1				
Max. power input	2 VA / 1.5 W				
Power consumption	≤ 1.2 W ≤ 2.4 W		4 W		
Supply indication	green LED				
Switch contact	1x change-over contact , 16 A	1x change-over contact, 16 A	2x change-over contact 8 A		
Adjustment range	4000 VA / AC1, 384 W / DC	4000 VA / AC1, 384 W / DC	2000 VA / AC1, 192 W / DC		
Time setting	control switch ar	nd potentiometer			
Time deviation	5 % - mechanical setting				
Repeat accuracy	0.2 % - set value stability				
Switching power	0.1 s — 10 days				
Switching voltage	250 V AC1 / 24 V DC				
Output indication	red LED				
Electrical life (AC1)	50 000 operation cycles	50 000 cycles	10 000 cycles		
Max. control power input	4.5 VA / 0.3 W				
Impulse length	min. 25 ms / max. unlimited				
Reset time	max. 150 ms				

Mechanical parameters			
Device width	17.6 mm		
Device height	90 mm		
Frame size	45 mm		
Mounting	onto 35 mm device rail (DIN)		
Mounting position	any		
Degree of protection	IP20		
Terminals	screw terminals		
Terminal capacity	1 — 2.5 mm²		
Fastening torque of terminals	0.8 Nm		
Mechanical life	10 000 000 operation cycles		
Ambient temperature	-20°C — +55°C		
Overvoltage category	III		
Installation class	II .		
Pollution degree	2		
Weight	0.062 kg	0.085 kg	

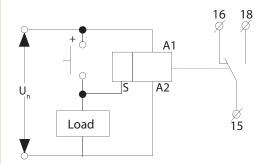


Technical Data Ex9TR 10M

Multifunction time relay

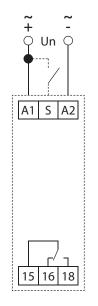
Dimensions 17.6 8'7 8'7

Wiring diagram

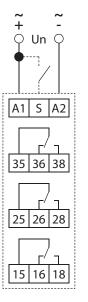


A load (eg contactor, indicator light or other device) can be connected in parallel between terminals S-A2 without disturbing the correct function of the relay.

Ex9TR 10M 1CO



Ex9TR 10M 3CO



Potential difference between supply terminals (A1-A2), output contact 2 (25-26-28) and output contact 3 (35-36-38) must not exceed 250 V AC rms / DC.



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Multifunction time relay

