Smart timer relays

Time functions at a glance

The new intelligent MACX-TR timer relays are multifunctional timer relays with an OLED display and pushbuttons. You will benefit from both the intuitive handling and the precise time function setting options. You can adjust the time parameters either via an app on your smartphone or directly on the device – the choice is yours.

OLED display

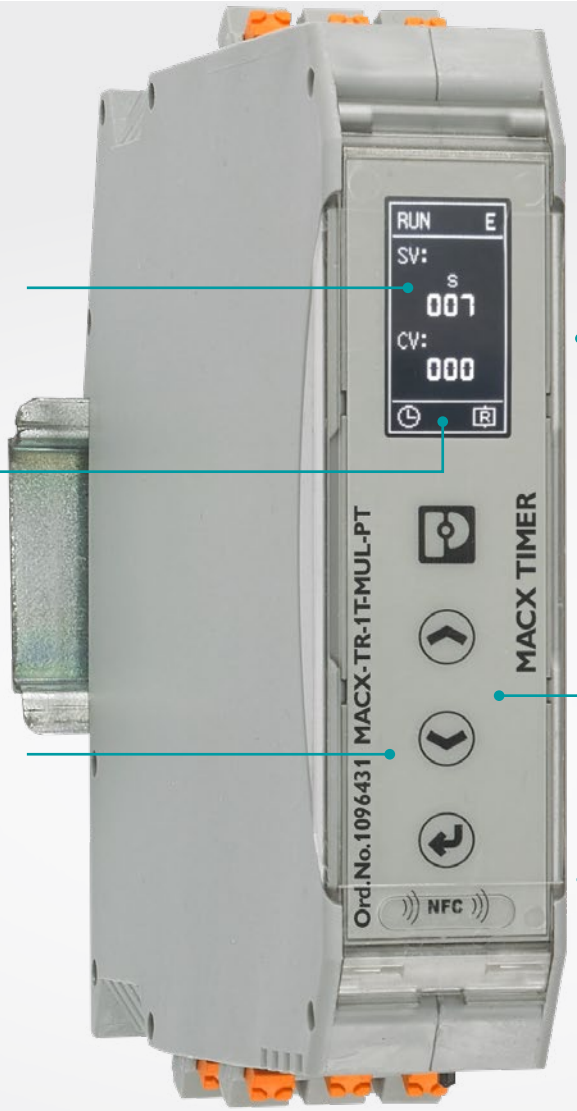
With countdown display for monitoring the module status

PIN coding

For protection against unauthorized changes

Guided configuration

Via the device buttons or via app



Rapid selection of the time functions

With function diagrams on the clearly readable OLED screen or via smartphone app

Precise time settings

Without checking or calculating potentiometer settings

Error-free configuration

Error-free and rapid transmission of existing and stored configurations via smartphone using NFC communication

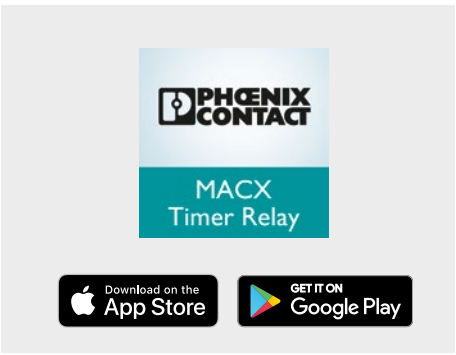
Easy handling in detail

Easy and precise setup

The combination of the easily readable OLED screen and pushbuttons enables easy handling directly on the device. Using the intuitive menu guide, you can select the necessary time functions and enter the precise time values at the touch of a button.

Smart configuration

The smartphone app provides you with further options. Via NFC connection, you can read out and adjust the current settings, and even transfer them to other timer relays. An optional PIN code provides protection against unauthorized access.



Smartphone app

In addition to the intelligent configuration options, the MACX-TR app provides you with access to additional device information and timer relay data sheets at any time.

The free app is available in the respective stores for iOS and Android users.

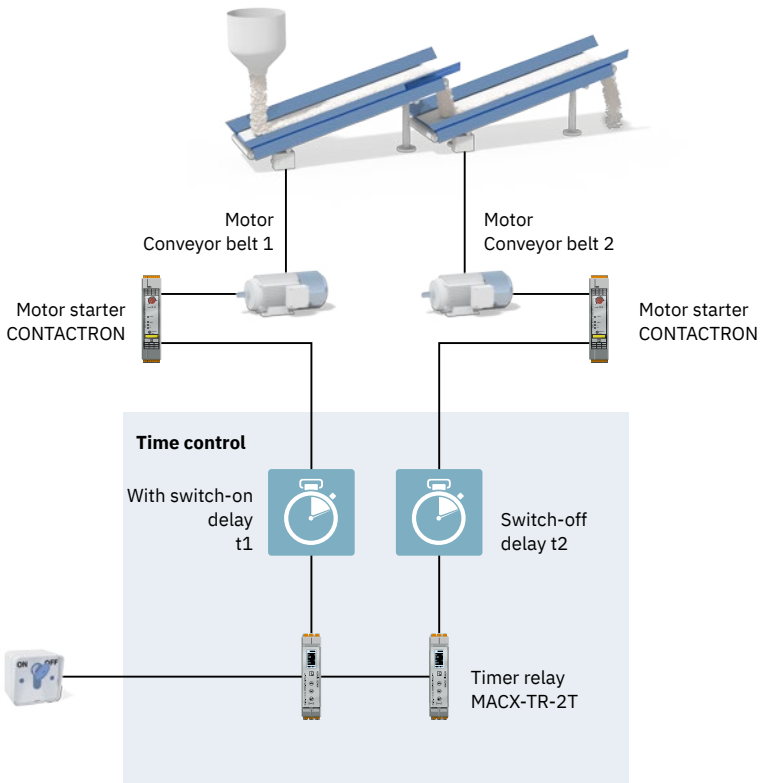
Application example: Conveying technology

Timer relays are used to protect the supply network against overloads and to avoid peak loads. To achieve this, the drive motors are switched on with a time delay.

When starting the system up, motor 2 is started first and then, after a short time interval, motor 1 is also started.

This sequence also prevents conveyor belt 2 from being overfilled during the system start-up if conveyor belt 1 is already loaded.

The stopping process is performed in the reverse time delay sequence. This also ensures that the conveyor belts are completely emptied.



Product overview of timer relays

Timer relays						
	Industrial housings			Compact housings		Narrow housings
						
Width	22.5			17.5		6.2
Functions						
E: switch on delay	•			•		•
Es: switch-on delay with control contact	•			•		•
Rs: response delay with control contact	•			•		•
Wu: passing make contact, voltage-controlled	•					
Ws: passing make contact with control contact	•			•		
Bi: flashing beginning with pulse	•					•
Ip: switched-mode beginning with pause	•	•			•	
Ii: switched-mode beginning with pulse	•	•			•	
ER: with switch-on delay and off-delay, with control contact		•				
EWu: with switch-on delay and passing make contact, voltage-controlled		•				
EWs: with switch-on delay and passing make contact, with control contact		•				
Wt: pulse sequence evaluation (retriggerable off-delay)		•				
YΔ: star-delta start		•				
POFF: switch-off delay			•			
Setting range time	10 ms ... 59999 min. 10 ms ... 999 h 59 min.		10 ms ... 10 min.	50 ms ... 1 h 5 time end ranges	50 ms ... 100 h 7 time end ranges	0.1 s ... 300 min. 4 time end ranges
Contact switching type	2 floating changeover contacts			1 floating changeover contact		
Push-in connection	1096431	1103355	1119399	2905814	2907714	2910141
Screw connection	1096429	1103345	1119403	2905813	2907713	2910140

Timer relay application example

Time function in a communal kitchen

Time function

- With passing make contact, with control contact

Application requirements

- Switching on the stovetop with a button
- Stovetop must be turned off after a defined period of time
- Automatic switch-off after the time elapses