Features

- Single-function time relays are suitable for universal use in automation, control and regulation or in house installations where there is a clear function requirement in advance.
- All functions initiated by the supply voltage can use the control input to inhibit the ongoing delay (pause).
- Universal supply voltage AC/DC 12 – 240 V.
- Time scale 0.1 s - 100 h divided into 10 ranges:
- (0.1 - 1 s / 1 - 10 s / 3 - 30 s / 6 - 60 s / 1 - 10 min / 3 - 30 min / 6 - 60 min / 1 - 10 h / 3 - 30 h / 10 - 100 h).
- Output contact: 1× changeover / SPDT 16 A
- Multifunction red LED flashes or shines depending on the operating state.

RS PRO Timer Relays

0360689

RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product Description

- *Single-function time relays are suitable for universal use in automation, control and regulation or in house installations where there is a clear function requirement in advance.*
- *Choice of four types function: ZR, ZN, BL, OD*
- *All functions initiated by the supply voltage can use the control input to inhibit the ongoing delay (pause).*
- *Universal supply voltage AC/DC 12 − 240 V.*
- *Time scale 0.1 s - 100 h divided into 10 ranges:*
  - *- 1 s / 1 - 10 s / 3 - 30 s / 6 - 60 s / 1 - 10 min / 3 - 30 min / 6 - 60 min / 1 - 10 h / 3 - 30 h / 10 - 100 h).*
- *Output contact 1× changeover / SPDT 16 A*
- *Multifunction red LED flashes or shines depending on the operating state.*

Pover supply

Supply terminals:	A1-A2
Supply voltage:	AC/DC 12 – 240 V (AC 50-60 Hz)
Consumption (max.):	2 VA/1.5 W
Supply voltage tolerance:	−15 %; +10 %
Supply voltage indication:	green LED

Time circuit

Time ranges:	0.1 s - 100 h
Time setting:	rotary switch and potentiometer
Time deviation:	5 % – mechanical setting
Repeat accuracy:	0.2 % – set value stability
Temperature coefficient:	0.01 %/°C, at = 20 °C (0.01 %/°F, at = 68 °F)

Output

Contact type 1:	1× changeover/SPDT (AgNi)
Current rating:	16 A/AC1; PD. B300
Breaking capacity:	4000 VA/AC1, 384 W/DC1
Electrical life (AC1):	100.000 ops.
Switching voltage:	250 V AC/24 V DC
Power dissipation (max.):	1.2 W
Mechanical life:	10.000.000 ops.

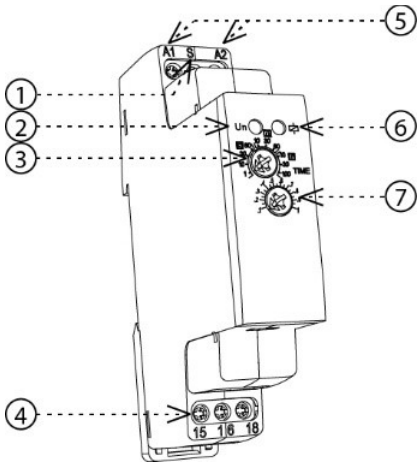
Control

Control terminals:	A1-S
Load between S-A2:	Yes
Impulse length:	min. 25 ms/max. unlimited
Reset time:	max. 150 ms

Other information

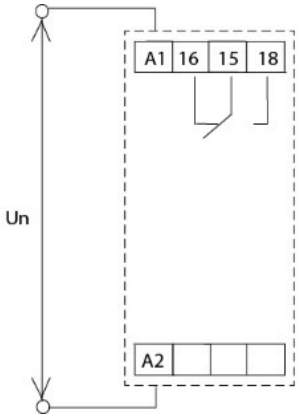
Operating temperature:	−20 .. +55 °C (−4 .. 131 °F)
Storage temperature:	−30 .. +70 °C (−22 .. 158 °F)
Dielectric strength supply - output:	AC 4 kV
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP40 front panel/IP20 terminals
Overvoltage category:	III.
Pollution degree:	2
Cross-wire section – solid/ stranded with ferrule (mm^2):	max. 1× 2.5, 2× 1.5/ max. 1× 2.5 (AWG 12)
Dimensions:	90 × 17.6 × 64 mm (3.5″ × 0.7″ × 2.5″)
Weight:	61 g (2.2 oz)
Standards:	EN 61812-1

Approvals

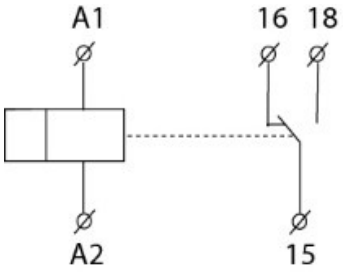


1. Ovládací vstup (S)
2. Indikácia napájacieho napätia
3. Nastavenie časového rozsahu
4. Výstupný kontakt 1 (15-16-18)
5. Svorky napájacieho napätia (A1-A2)
6. Indikácia prevádzkových stavov
7. Jemné nastavenie času

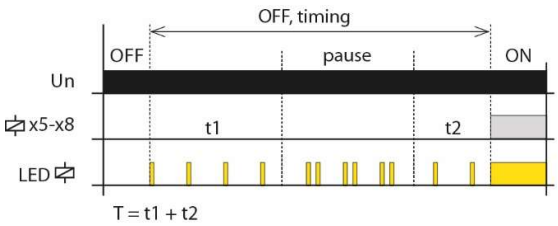
Connection

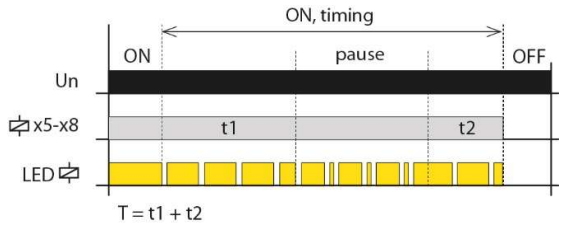


Symbol



Indications of operating states



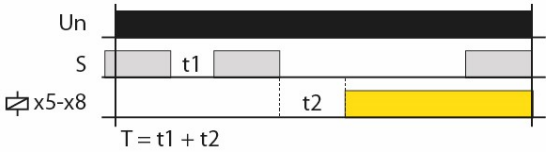


Function

ZR ON DELAY

When the supply voltage “Un” is applied, the time delay “T” starts. The output contact(s) “ ” will close after the delay has elapsed. If the supply voltage “Un” is disconnected, the output contact(s) “ ” are opened and the function is reset. Control input “S” is not used in this function.

ON DELAY with Inhibit



When the supply voltage “Un” is applied while the control input “S” is closed, the time delay “T” doesn’t start. The delay only starts when the control input “S” is open. The output contact(s) “ ” will close after the delay has elapsed. If the supply voltage “Un” is disconnected, the output contact(s) “ ” are opened and the function

Mote: ZR function is initiated by connecting the supply voltage to the device, i.e. in the event of a failure and recovery of the supply voltage, the relay automatically performs 1 cycle.