Clock-pulse generator time delay relay
MFT IT14S

- 2 functions
- Zoomvoltage: 12 ... 240 Vac/dc
- 1 output contact

Function
T Cycling timer
  TP Cycling timer relay beginning on a pause
  TI Cycling timer relay beginning on a pulse

Time ranges
Adjustable 0.05 s ... 100 h

Output relay
1 changer potential free 250 Vac / 8 A

Indicators
Green LED ON: indication of supply voltage
Green LED flashes slowly: indication of time t1
Green LED flashes fast: indication of time t2
Yellow LED ON/OFF: indication of relay output

Supply voltage
12 ... 240 Vac/dc -10% +10%
AC 48 ... 63 Hz, 100% duration of operation

Reference data

<table>
<thead>
<tr>
<th>Selectron® MFT</th>
<th>Article no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFT IT14S</td>
<td>41130007</td>
</tr>
</tbody>
</table>

(Order data see chapter 1)
# Clock-pulse generator time delay relay

**MFT IT14S**

## Technical data

<table>
<thead>
<tr>
<th>Input circuit</th>
<th>MFT IT14S</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 ... 240 Vac/dc</td>
<td>4 VA / 1,5 W</td>
</tr>
<tr>
<td>Residual ripple for dc</td>
<td>10%</td>
</tr>
<tr>
<td>Drop-out voltage</td>
<td>&gt;30% of minimum rated supply voltage</td>
</tr>
</tbody>
</table>

**Control contact / Voltage controlled**

- Parallel switching of loads possible
- Input not potential free: terminals A1 - B1
- Trigger level (sensitivity): automatic adapted to supply voltage
- Max. line length: 10 m
- Min. control pulse length: DC 50 ms / AC 100 ms

**Accuracy**

- Base accuracy: ±1% of the scale limit
- Repeatability of the scale limit: <0.5% or ±5 ms
- Adjustment accuracy: <5% of the scale limit
- Temperature influence: ≤0.01% / °C

**Reaction times**

- Recovery time: 100 ms

## Type key

- **I** Mounting position
- **U** Multifunction
- **Q** 4 Functions
- **T** Cycling timer
- **TU** Cycling timer multifunction
- **3** 1 changer
- **4** 2 changers

- **S** Voltage control

- **Connecting voltage**
  - 3: 24-240 Vac/dc
  - 4: 12-240 Vac/dc
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Function descriptions

**TP - Cycling timer relay beginning on a pause**
When the supply voltage $U$ is applied, the set interval $t_1$ begins (green LED U/t flashes slowly). After the interval $t_1$ has expired, the output relay switches into on-position (yellow LED illuminated) and the set interval $t_2$ begins (green LED U/t flashes fast). After the interval $t_2$ has expired, the output relay switches into off-position (yellow LED not illuminated).

The output relay is triggered in the ratio of the two set intervals until the supply voltage is interrupted.

**TI - Cycling timer relay beginning on a pulse**
When the supply voltage is applied, the output relay $R$ switches into on-position (yellow LED illuminated) and the set interval $t_1$ begins (green LED U/t flashes slowly). After the interval $t_1$ has expired, the output relay switches into off-position (yellow LED not illuminated) and the set interval $t_2$ begins (green LED U/t flashes fast). After the interval $t_2$ has expired, the output relay switches into on-position again (yellow LED illuminated).

The output relay is triggered in the ratio of the two set intervals until the supply voltage is interrupted.
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Connection

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Load limit curves

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Dimensions

ESG 3.13