MFT IU14S, IU24S



MFT IU14S



MFT IU24S

- 7 functions
- Zoomvoltage:12 ... 240 Vac/dc
- 2 output contacts

Function

U Multifunction

- **E** Delay on
- A Delay off
- **12** Pulse extension with control contact
- W2 Wiping on trailing edge
- **E1** Delay on with control contact
- Pulse limitation timer voltage control
- **B2** Cycling timer starting on a pause

Time ranges

Adjustable 0,05 s ... 100 h

Output relay

1 or 2 changers potential free 250 Vac / $8\,\mathrm{A}$

Indicators

Green LED ON: indication of supply voltage

Green LED flashes: indication of time

Yellow LED ON/OFF: indication of relay output

Supply voltage

12... 240 Vac/dc -10% +10%

AC 48 ... 63 Hz, 100% duration of operation

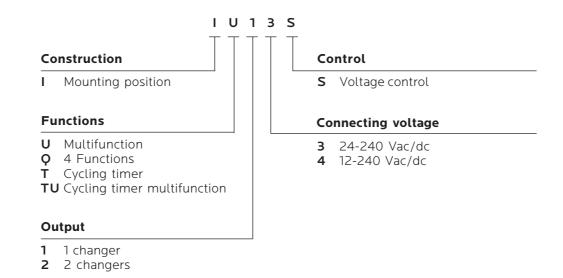
Reference data

Selectron® MFT	Article no.
MFT IU14S	41130003
MFT UI24S	41130004
(Order data see chapter 1)	

MFT IU14S, IU24S

Technical data		
Input circuit	MFT IU143S, IU24S	
	12 240 Vac/dc	IU14S: 4 VA / 1,5 W IU24S: 6 VA / 2 W
	Residual ripple for dc	10%
	Drop-out voltage	>30% of minimum rated supply voltage
Control contact / Voltage controlled		
	Parallel switching of loads possible	
	Input not potential free	terminals A1 - B1
	Trigger level (senitivity)	automatic adapted to supply voltage
	Max. line length	10 m
	Min. control pulse lenght	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



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Function descriptions

E - Delay on

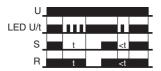
When the supply voltage U is applied, the set interval t begins (green LED U/t flashes). After the interval t has expired



(green LED U/t illuminated) the output relay switches into onposition (yellow LED illuminated). This status remains until the supply voltage U is interrupted. If the supply voltage U is interrupted before expiry of the interval t, the interval already expired is erased and is restarted when the supply voltage U is next applied.

A - Delay off

The supply voltage U must be constantly applied to the device (green LED U/t illuminated). When the control contact



S is closed, the output relay R switches into on-position (yellow LED illuminated). If the control contact S is opened, the set interval t begins (green LED U/t flashes). After the interval t has expired (green LED U/t illuminated) the output relay switches into off-position (yellow LED not illuminated). If the control contact is closed again before the interval t (green LED U/t illuminated) has expired, the interval already expired is erased and is restarted with the next cycle.

12 - Pulse extension with control contact

The supply voltage U must be constantly applied to the device (green LED U/t illuminated). When the control contact



S is closed, the output relay R switches into on-position (yellow LED illuminated) and the set interval t begins (green LED U/t flashes). After the interval t has expired (green LED U/t illuminated) the output relay switches into off-position (yellow LED not illuminated). During the interval, the control con-tact can be operated any number of times. A further cycle can only be started when the cycle run has been completed.

W2 - Wiping on trailing edge

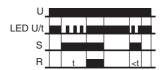
The supply voltage U must be constantly applied to the device (green LED U/t illuminated). Closing the control



contact S has no influence on the condition of the output relay R. When the control contact is opened, the output relay switches into on-position (yellow LED illuminated) and the set interval t begins (green LED U/t flashes). After the interval t has expired (green LED U/t illuminated), the output relay swit-ches into off-position (yellow LED not illuminated). During the interval, the control contact can be operated any number of times. A further cycle can only be started when a cycle run has been completed.

E1 - Delay on with control contact

The supply voltage U must be constantly applied to the device (green LED U/t illuminated). When the control contact



S is closed, the set interval t begins (green U/tLED flashes). After the interval t has expired (green LED U/t illuminated) the output relay R switches into on-position (yellow LED illuminated). This status remains until the control contact is opened. If the control contact is opened before the interval t has expired, the interval already expired is erased and is restarted with the next cycle.

11 - Pulse limitation timer voltage control

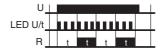
When supply voltage U is applied, the output relay R switches into on-position (yellow LED illuminated) and the set interval t



begins (green LED U/t flashes). After the interval t has expired (green LED U/t illuminated) the output relay switches into off-position (yellow LED not illuminated). This status remains until the supply voltage is interrupted. If the supply voltage is interrupted before the interval t has expired, the output relay switches into off-position. The interval t already expired is erased and is restarted when the supply voltage is next applied.

B2 - Cycling timer starting on a pause

When the supply voltage U is applied, the set interval t begins (green LED U/t flashes). After the interval t has expired, the

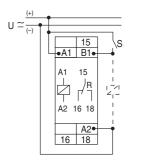


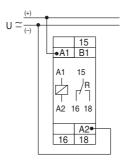
output relay R switches into on-position (yellow LED illuminated) and the set interval t begins again. After the interval t has expired, the output relay switches into off-position (yellow LED not illuminated). The output relay is triggered in the ratio 1:1 until the supply voltage is interrupted.

MFT IU14S, IU24S

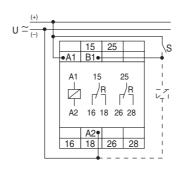
Connection

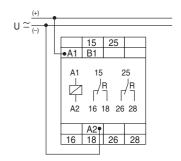
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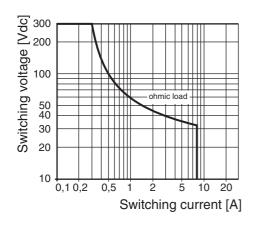
MFT IU24S



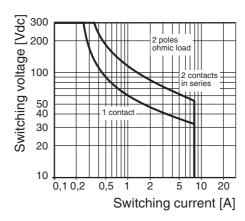


Load limit curves

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Dimensions

