Multifunctional time delay relay

MFT IQ13S

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- **4 functions**
- **Zoomvoltage:**
  24 ... 240 Vac/dc
- **1 output contact**

Function

Q 4-functions

E	Delay on
A	Delay off
I1	Pulse limitation timer voltage control
B2	Cycling timer starting on a pause

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:	indication of time
Yellow LED ON/OFF:	indication of relay output

Supply voltage

24 ... 240 Vac/dc -15% +10%

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

Reference data

Selectron® MFT	Article no.
MFT IQ13S	41130001
(Order data see chapter 1)	

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Technical data		
Input circuit	**MFT IQ13S**	
	24 ... 240 Vac/dc	4 VA / 1,5 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

I U 1 3 S

Construction

I Mounting position

Functions

U Multifunction
Q 4 Functions
T Cycling timer
TU Cycling timer multifunction

Output

1 1 changer
2 2 changers

Control

S Voltage control

Connecting voltage

3 24-240 Vac/dc
4 12-240 Vac/dc

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Function descriptions

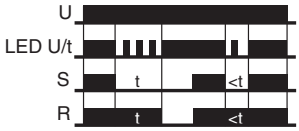
E - Delay on

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 on-position (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

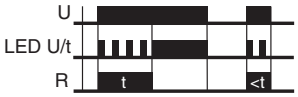
The supply voltage U must be constantly applied to the device (green LED U/t illuminated). When the control



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.

I1 - Pulse limitation timer voltage control

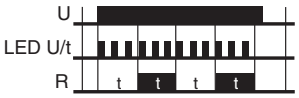
When supply voltage U is applied, the output relay R



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 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.

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Connection

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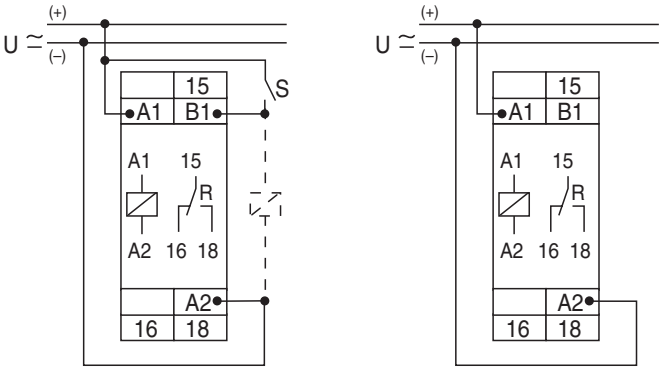

Load limit curves

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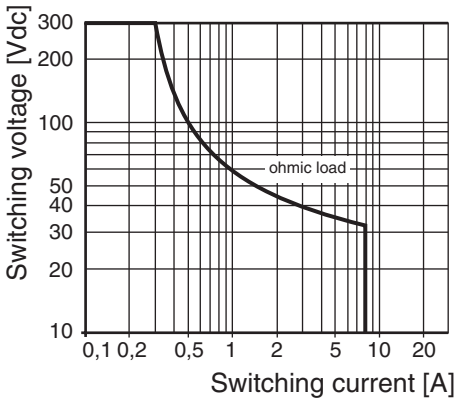

Dimensions