TB

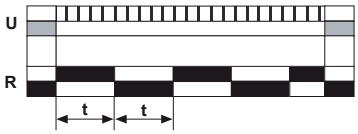
overview



- **single or dual supply voltage options**
- **SPCO or DPCO output relay**
- **6 selectable time ranges 0.1 sec - 10Hrs**
- **LED indicators for power supply and relay status**
- **22.5mm DIN rail mount housing or 11pin plug in housing**

Symmetrical recycler

Supply voltage on
Supply voltage off
Output relay contact closed
Output relay contact open



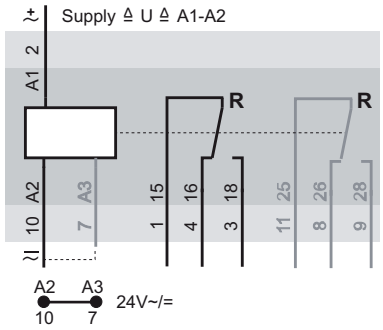
Remove supply voltage before making any changes toeither time range or timing function.

On the application of the supply voltage the output relay pulls in and timing period ***t*** starts.
At the end of time ***t*** the output relay drops out and remains dropped out for a period equal to time ***t***.
An on-off action with a 1:1 time ratio continues until the supply voltage is removed when the time relay will reset ready for the next timing cycle.
If the supply voltage is removed during an 'On' period the output relay will drop out immediately, the remaining time will be cancelled and the time relay resets ready for the next timing cycle.

Time ranges

0,1s-1,0s	1,0s-10s	0,1min-1,0min	1,0min-10min	0,1h-1,0h	1,0h-10h

The required delay time within the range selected is set using the potentiometer on the front plate



specification

supply voltage variation		nominal voltage +10% / -15%	
frequency range		48 - 63 Hz	
max. delay time		100%	
repeat accuracy		< 1% of the selected range	
relay type		1	2
output relay spec	230V~	6A	10A
Ie AC-15*	120V~	4A	5A
Ie AC-15*	240V~	3A	4A
Ie DC-13*	24V=	2A	4A
expected life time		DPCO	SPCO
mechanical		2×10^6 resp.	1×10^7 operations
electrical		1×10^5 resp.	1×10^5 operations
screws		pozidrive 1	
screw tightening torque		0,6..0,8Nm	
operating conditions		-20 to +60°C non condensing	

* EN 60947-5-1 VDE 0435

ordering information

part no	supply		output	relay type	cULus	housing types
TB01	230V~ / 24V~=	6VA / 1W	DPCO	1	yes	B
TB04	115V~ / 24V~=	6VA / 1W	DPCO	1	yes	B
DBR230	230V~ / 24V~=	6VA / 1W	SPCO	2	yes	A
DBR115	115V~ / 24V~=	6VA / 1W	SPCO	2	yes	A
TB12	230V~	6VA	SPCO	2	yes	A
TB13	24V~=	1W	SPCO	2	yes	A
TB15	115V~	6VA	SPCO	2	yes	A
TB41	230V~ / 24V~=	6VA / 1W	DPCO	1	no	G
TB42	230V~ / 24V~=	6VA / 1W	SPCO	1	no	G
TB71	230V~ w. transf.	2VA	DPCO	1	no	G

other voltages on request

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