Timers Symmetrical Recycler Type ECS





- Fail-safe two-wire connection
- Low-cost
- Multi-voltage: 24-230 VAC
- 2 types: Recycler (Start OFF) Recycler (Start ON)
- Time range: 0.5 s 10 m
- Knob-adjustable time setting
- Output: SCR 10-500 mA (screws) and SCR 10-700mA (Fast-ON)

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- For mounting on DIN-rail in accordance with DIN/EN 50 022
- 22.5 mm small Euronorm housing

Product Description

SCREW

Small, low cost monofunction timer with adjustable time setting. 2-wire connection for easy and fail-safe use (see diagram). For mounting on DIN-rail or directly on surface by screw. The timer is used e.g. with industrial relays or 3-phase contactors.

Ordering Key ECS S M23 A 10S F

Housing Function Small E-line Output Power supply Type		
Time range —		
Fast-ON connection ———		

Type Selection

Mounting	Output	Time range	Connection	Supply: 24 - 230 VAC
For DIN-rail	SCR	0.5 - 10 s	Screws	ECS S M23 A 10S (OFF) ECS S M23 B 10S (ON)
or for screw	SCR	0.1 - 1 m	Screws	ECS S M23 A 1M (OFF)
	SCR	1 - 10 m	Screws	ECS S M23 B 1M (ON) ECS S M23 A 10M (OFF) ECS S M23 B 10M (ON)
For DIN-rail or for screw	SCR	0.5 - 10 s	Fast-ON	ECS S M23 A 10S F (OFF) ECS S M23 B 10S F (ON)
or for sorew	SCR	0.1 - 1 m	Fast-ON	ECS S M23 A 1M F (OFF) ECS S M23 B 1M F (ON)
	SCR	1 - 10 m	Fast-ON	ECS S M23 A 10M F (OFF) ECS S M23 B 10M F (ON)

Time Specifications

Time ranges 10 S 1 M 10 M	0.5 - 10 s 0.1 - 1 m 1 - 10 m
Time range accuracy	Max. setting: actual time ≥ max. set time min. setting: actual time ≤ min. set time
Repeat accuracy	≤ 0.2%
Time variation Within rated power supply and ambient temperature Ratio T _{OFF} /T _{ON}	$\leq 0.1\%/V$ $\leq 0.2\%/^{\circ}C$ $1 \leq \frac{T_{OEE}}{T_{ON}} \leq 1.1$
Reset Time and output	Power supply interruption ≥ 200 ms

Output Specifications

Output	SCR
Output current Maximum load current	500 mA 700 m 5.5 A 7 A
Minimum load current	10 m
Leakage current	≤ 3.5 mA @ 230 V typ.: 2 m
Voltage drop	≤ 8 VAC typ.: 5 VAC @ 50 mA

Supply Specifications

Power supply	Overvoltage cat. III (IEC 60664)
Rated operational voltage	(IEC 60038)
	24-230 VAC, -10/+15%
Rated insulation voltage	None

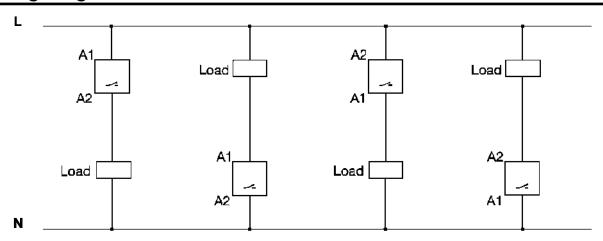


General Specifications

Power ON delay	≤ 100 ms	
Power OFF delay	≥ 200 ms	
Environment		
Degree of protection	IP 20	
Pollution degree	3	
Operating temperature	-20° to +50°C (-4° to +122°F)	
Storage temperature	-30° to +80°C (-22° to +176°F)	
Weight	50 g	
Housing		
Dimensions Screw terminals	22.5 x 56 x 49 mm	
Fast-ON terminals	22.5 x 56 x 44 mm	
Material	ABS	

Approvals	UL, CSA
CE Marking	Yes
EMC	Electromagnetic Compatibility
Immunity	Acc. to IEC 60801-4 Acc. to IEC 60801-5

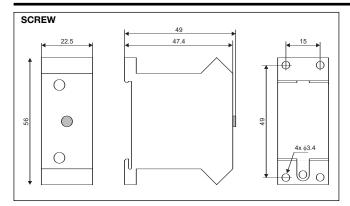
Wiring Diagram

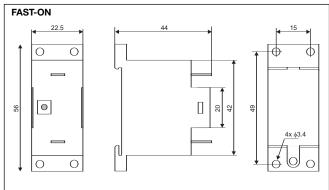


Operation Diagram



Dimensions





Mouser Electronics

Authorized Distributor

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ECSSM23B1M ECT--WELL ECSSM23A10S ECSSM23B10M ECSSM23A1M ECSSM23A1MF ECSSM23B10SF ECSSM23B10MF ECSSM23B10S ECSSM23A10SF ECSSM23B1MF