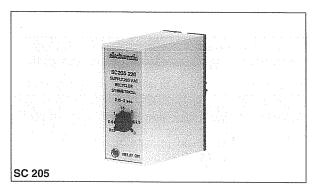
Symmetrical Recycler Types SC 105, SC 205





- Time ranges: 0.15 s to 600 s
- · Automatic start (ON or OFF first)
- Equal ON- and OFF-time periods
- · Knob-adjustable time within range
- Oscillator-controlled time circuit
 Repeatability deviation: ≤ 1%
- Output: 10 A SPDT or 8 A DPDT relay
 Plug-in type module
- S-housing
- · LED-indication for relay on
- · AC or DC power supply

Product Description

Mono-function, plug-in symmetrical ON/OFF recyclers up to 600 s (10 min) covering 5 individual time ranges. Optional ON-

or OFF-time period first. Often used in applications where items have to be divided onto two conveyor belts.

Ordering Key	SC 105 024 35
Housing ————————————————————————————————————	
Type — — — Power supply — — Time range — — — — — — — — — — — — — — — — — — —	

Type Selection

Plug	Output	Time ranges	Supply: 24 VAC	Supply: 115 VAC	Supply: 230 VAC	Supply: 24 VDC
Circular O	SPDT	0.15- 3 s 0.8 - 18 s 3 - 60 s 8 -180 s 30 -600 s	SC 105 024 3S SC 105 024 18S SC 105 024 60S SC 105 024 180S SC 105 024 600S	SC 105 115 3S SC 105 115 18S SC 105 115 60S SC 105 115 180S SC 105 115 600S	SC 105 230 3S SC 105 230 18S SC 105 230 60S SC 105 230 180S SC 105 230 600S	SC 105 724 3S SC 105 724 18S SC 105 724 60S SC 105 724 180S SC 105 724 600S
Circular O	DPDT	0.15- 3 s 0.8 - 18 s 3 - 60 s 8 -180 s 30 -600 s	SC 205 024 3S SC 205 024 18S SC 205 024 60S SC 205 024 180S SC 205 024 600S	SC 205 115 3S SC 205 115 18S SC 205 115 60S SC 205 115 180S SC 205 115 600S	SC 205 230 3S SC 205 230 18S SC 205 230 60S SC 205 230 180S SC 205 230 600S	SC 205 724 3S SC 205 724 18S SC 205 724 60S SC 205 724 180S SC 205 724 600S

Time Specifications

Time ranges	0.15 - 3 s	Repeatability deviation	≤1%
	0.8 - 18 s 3 - 60 s 8 - 180 s 30 - 600 s	Time variation Within rated power supply and ambient temperature	≤ 0.05%/V 1 English 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1
Time range accuracy	0 to +10% on max. min. actual time ≤ min. set time	Reset Time and/or relay	power supply interruption min. 300 ms



Output Specifications

		SC 105	SC 205	
Output Basic electrical insulation		SPDT relay 250 VAC (RMS) (contact/electronics)	DPDT relay 250 VAC (RMS) (contacts/elec., contact/contact)	
Contact ratings (Ag-CdO Resistive loads Small inductive loads	AC 1 DC 1 or AC 11 DC 11	μ (micro gap) 10 A/250 VAC (2500 VA) 1 A/250 VDC (250 W) 10 A/25 VDC (250 W) 2.5 A/230 VAC 5 A/24 VDC	μ (micro gap) 8 A/250 VAC (2000 VA) 0.4 A/250 VDC (100 W) 4 A/25 VDC (100 W) 2.5 A/230 VAC 5 A/24 VDC	
Mechanical life		\geq 30 x 10 6 operations	≥ 30 x 10 ⁶ operations	
Electrical life AC 1		≥ 2.5 x 10 ⁵ operations (at max. load)	$\geq 2.5 \times 10^5$ operations (at max. load)	
Operating frequency		≤ 7200 operations/h	≤ 7200 operations/h	
Insulation voltages Rated insulation voltage Rated transient protection volt.		≥ 2.0 kVAC (RMS (contact/electronics) 4 kV (1.2/50 µs) (contact/electronics) (IEC 664)	≥ 2.0 kVAC (RMS) (contact/electronics) 4 kV (1.2/50 μs) (contact/electronics) (IEC 664)	

Supply Specifications

Supply Specifications			
Power supply AC Rated operational		installation cat. III (IEC 664)	
through pins 2 &	10 230 115 024	230 VAC ± 15%, 45 to 65 Hz 115 VAC ± 15%, 45 to 65 Hz 24 VAC ± 15%, 45 to 65 Hz	
Dropout tolerand Rated insulation Rated transient p	voltage	$\geq 40 \text{ ms}$ $\geq 2.0 \text{ kVAC (RMS (supply/elect 4 kV (1.2/50 \mu\text{s}) (line/neutral) installation cat. III (IEC 664) 24 VDC \pm 15% (pin 2 pos.) none 800 V (1.2/50 \mu\text{s}) + / -$	
Power supply DC Rated operationa Rated insulation Rated transient p	ul voltage 724 voltage		
Consumption	AC supply DC supply	2.5 VA 1.5 W	

General Specifications

Power-on dela	ау	≤ 200 ms		
Power-off delay Indication for Output ON Environment Pollution degree Operating temperature Storage temperature		≥ 300 ms		
		LED. red		
		IP 20 B 2 (IEC 664) -20 to +50°C (-4 to +122°F) -50 to +85°C (-58 to +185°F)		
Weight AC/DC types		200 g/125 g		
Approvals		UL, CSA, SEV		

Mode of Operation

Example 1 OFF-time period first The time period starts when power supply is applied. At

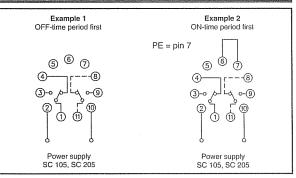
power supply is applied. At the end of the first set time period, the relay operates. At the end of the second set time period (equal to the first), the relay releases.

This sequence continues with equal OFF- and ON-time periods, until power supply is interrupted.

Example 2 ON-time period first

Interconnect pins 6 and 7. The relay operates and the time period starts when power supply is applied. At the end of the first set time period, the relay releases. At the end of the second set time period (equal to the first), the relay operates again. This sequence continues with equal ON-and OFF-time periods until power supply is interrrupted.

Wiring Diagrams



Operation Diagram

