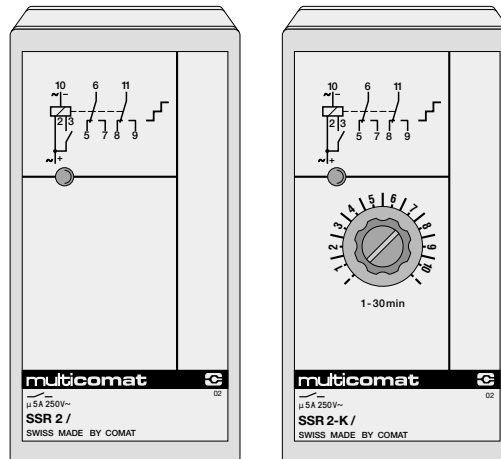
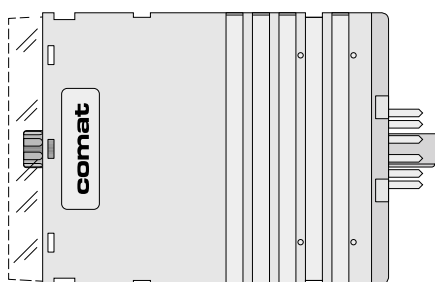


## Electronic step-on step-off relays SR-2




Electronic step-on step-off relays type SR-2 with the following characteristics:

- Plug in step-on step-off relay with supply voltage control and 2 change-over contacts 5A, 250V~
- Suitable for standard 11 pin base as specification IEC 67-1-18a
- Type SSR 2 without memory
- Type SSR 2-K with time delay function, specifically designed for lighting control
- LED display on all models of relay function









Type	Time range
SSR 2-K	1 – 30min

Voltages, current consumption, type				
	AC 50/60 Hz/UC		Version	Ordering no.
	U min – U max	I max		
AC 220V~	185 – 245V	8 mA	with mains transformer	SSR 2-K/AC220V~
UC 24V≈	20 – 29V	55 mA		SSR 2-K/UC24V≈

**Example of order:** 1 step-on step-off relay SSR 2-K/AC220V



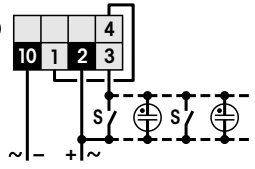
Functions	Diagram	Description	Scheme
Step-on step-off		S ⇒ R on or off	①
Step-on step-off with one shot leading edge		S (pulse or continuous contact) ⇒ R on for t S on for t ⇒ R off	②
One shot leading edge		S (pulse or continuous contact) ⇒ R on for t S --- does not influence R and t	③

**ON**  **OFF** S = triggering ⇒ = switches... R = output circuit

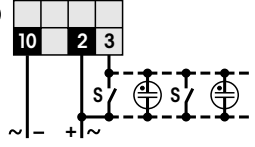
### Connection scheme

Connection with socket CS-11

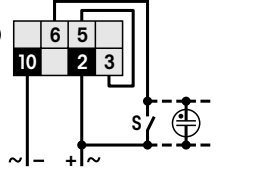
Step-on step-off without timing mode ①



Step-on step-off with timing mode ②



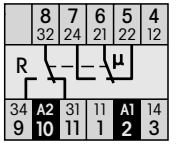
Only timing mode ③



Neon switch current max. 50mA (at 220-240V~).

### Diagram

Connection with socket CS-11



Technical data	General
Repeat accuracy <sup>1)</sup>	± 2% oder 20ms
Voltage stability	± 1% <sup>2)</sup>
Temperature stability	0,1%/°C
Time range tolerance max.	-0 +20%
Reset time	100ms
Triggering time	≥ 40ms
Triggering delay time	15...40ms
Load of control contact S	6mA (75mA) <sup>3)</sup>
Operating temperature range	-25... +60°C
Storage temperature range	-25... +80°C
Transient voltage protection	3kV, 50µs
Specifications/Standards	SEV, VDE 0435/0110 Gr. C
Protection/Case material	IP 40/Noryl SE1 to UL 94 V-1
Weight incl. packing	approx. 150g, with transformer approx. 250g

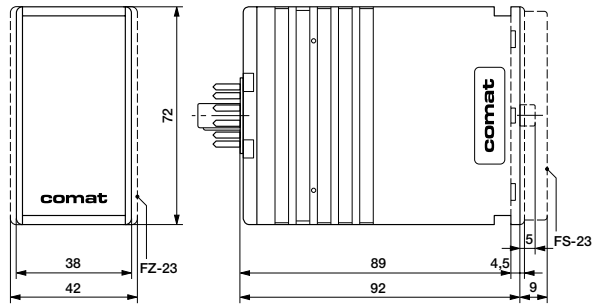
<sup>1)</sup> referred to the set time      <sup>3)</sup> 220V execution  
<sup>2)</sup> max. tolerance total      Data at T<sub>amb</sub> = 25°C and V<sub>nom</sub>

Technical data	Output circuit
Switching current max.	5A
Switching voltage max.	250V~ AC 1
Breaking capacity	AC: 1200VA; DC: ...250W
Mechanical life	2x10 <sup>7</sup> operations
Contact material	Ag Ni

These values are valid for ohmic load or for inductive loading with spark arrest.

### Dimensions

Case S2



Front mounting accessory FZ-23 (front panel aperture: 38,5x70<sup>+0,5</sup> mm, front panel thickness max. 3mm). Transparent front cover FS-23 (part of the scope of delivery).



This issue replaces all previous issues.  
Availability, errors and specifications  
subject to change without notice.

Case S2

**C11A Relay socket with screw, connections for panel or DIN mounting-snap fit**

Technical drawing of the C11A relay socket. The front view shows a 38mm wide socket with 12 terminals (9-12 and 1-4) and a central screw terminal. Labels include LH-1, L-16, C-A2, SC-3, and SD-1. Dimensions include a height of 75mm, a terminal pitch of 30mm, and a mounting hole diameter of max 40mm. The side view shows a 20mm wide base and a 4mm offset.

**EC-11 Relay socket with screw, connections for panel or DIN mounting-snap fit**

Technical drawing of the EC-11 relay socket. The front view shows a 38mm wide socket with 12 terminals (9-4 and 10-2) and a central screw terminal. Labels include comat, EC-11, 10A 400V, 10A 300V, and LISTED. Dimensions include a height of 62mm, a terminal pitch of 8mm, and a mounting hole diameter of 24.2mm. The side view shows a 22mm wide base and a 4mm offset.

**CS-11 Relay socket with screw, connections for panel or DIN mounting-snap fit**

Technical drawing of the CS-11 relay socket. The front view shows a 38mm wide socket with 12 terminals (8-4 and 3-12) and a central screw terminal. Labels include comat, CS-11, TEST, LABEL SL-36, CODING CA-11, and TS 35. Dimensions include a height of 68mm, a terminal pitch of 3.2mm, and a mounting hole diameter of 29.5mm. The side view shows a 20mm wide base and a 4mm offset.

**11 PGF Relay socket for fasten connectors (2xAMP 2,8x0,8 DIN 46247)**

Technical drawing of the 11 PGF relay socket. The front view shows a 38mm wide socket with 6 terminals. Labels include comat and Faston 2,8x0,8 (2x). Dimensions include a height of 39mm, a terminal pitch of 27mm, and a mounting hole diameter of 4.5mm. The side view shows a 10mm wide base and a 6.5mm offset.

**11 PGL Relay socket for chassis mounting (solder tags: 3,8x0,8 mm)**

Technical drawing of the 11 PGL relay socket. The front view shows a 38mm wide socket with 6 terminals. Labels include comat. Dimensions include a height of 39mm, a terminal pitch of 27mm, and a mounting hole diameter of 4.5mm. The side view shows a 10mm wide base and a 6.5mm offset.

**RG-23 Surface mounting case with built-in relay socket (protected connection terminals)**

Technical drawing of the RG-23 surface mounting case. The front view shows a 50mm wide case with 6 terminals. Labels include comat, RG-23, 38x72, 10A 400V, 10A 300V, and LISTED. Dimensions include a height of 125mm, a terminal pitch of 24mm, and a mounting hole diameter of 4.5mm. The side view shows a 97mm wide base and a 6.5mm offset.

**HF-24 Retaining clip for cases S2, S3, S4 suitable for all relay sockets**

Technical drawing of the HF-24 retaining clip. Dimensions include a length of 46mm, a width of 35mm, and a height of 14mm. A hole diameter of 0.6mm is also indicated.

**FS-23 Transparent cover (always included with the relay)**

Technical drawing of the FS-23 transparent cover, showing a rectangular frame with four clips for mounting.

**FZ-23 Front of panel mounting accessory comprising 2 front frame parts ① and 2 retaining clips ②**

Technical drawing of the FZ-23 front of panel mounting accessory, showing two front frame parts (1) and two retaining clips (2) used for panel mounting.

**FZ-23 Front of panel mounting accessory comprising 2 front frame parts ① and 2 retaining clips ②**

Technical drawing of the FZ-23 front of panel mounting accessory, showing two front frame parts (1) and two retaining clips (2) used for panel mounting.

**FZ-23 Front of panel mounting accessory comprising 2 front frame parts ① and 2 retaining clips ②**

Technical drawing of the FZ-23 front of panel mounting accessory, showing two front frame parts (1) and two retaining clips (2) used for panel mounting. The drawing includes assembly steps: 1. Inserting the front frame parts into the case (Gehäuse case, boîtier S2). 2. Attaching the retaining clips to the front frame parts. Dimensions include a height of 70mm, a width of 38.5mm, and a minimum distance of 48mm between the clips.



**Kühn Controls AG**

**Notes:**

You want more information about this product, please call us: tel: +49 (0)7082-940000 or send us a fax: +49 (0)7082-940001, or email: [sales@kuehn-controls.de](mailto:sales@kuehn-controls.de) or visit our Website: [www.kuehn-controls.de](http://www.kuehn-controls.de)