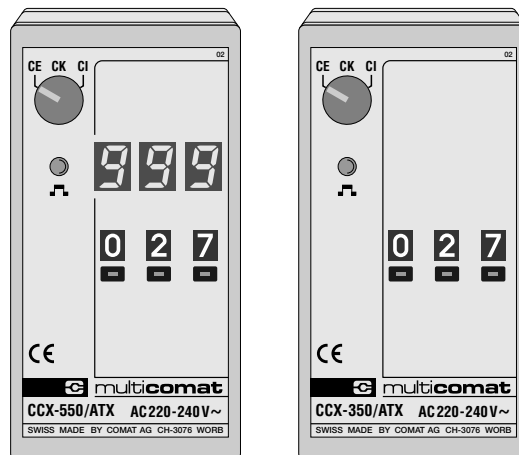


## Preset Counters

CC

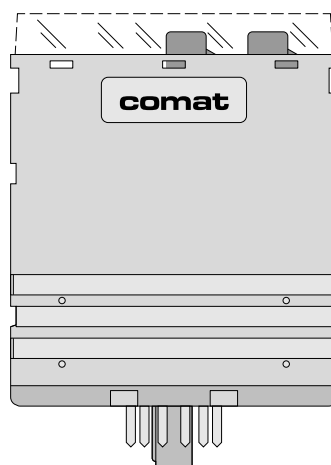


Electronic Preset Counters of the series CC point out the following main characteristics:

- Plug in Preset Counters with 2 change-over contacts 6A, 250V~
- Touch contact with digital display (CCX-550)
- 11 pin submagnal plug as specification IEC 67-1-18a
- Suitable for front panel mounting with accessory FZ-23
- Digital value display (CCX-550) and LED indication of the relay function



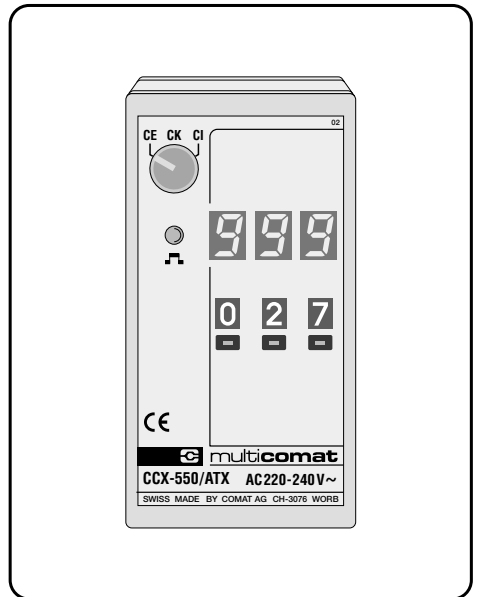
Kühn Controls S.L.  
Vertriebsbüro Deutschland  
Gräfenhäuser Str. 14  
D-75305 Neuenbürg  
Tel.: +49- (0)7082-940000  
Fax: +49- (0)7082-940001  
eMail: sales@kuehn-controls.de  
www.multicomat.net



Type	Decades/Select	Decades/Display	Max. counting frequency
CCX-550	3/0-999	3	200 Hz

Supply, Power Consumption, Type					
	AC 50/60 Hz		DC		Type
	U min - U max	I max	U min - U max	I max	
AC 220-240V~	190-265V~	11mA			CCX-550/ATX
AC 110-120V~	90-140V~	15mA			CCX-550/ANP
UC 24-48V≈	19-60V~	110mA	19-60V≈	110mA	CCX-550/UFK

**Example of order:** 1 preset counter CCX-550/ATX



### Timing modes

**CE**

Q is active after reaching the preselected number of pulses.  
Q and C can be reset with the reset button.

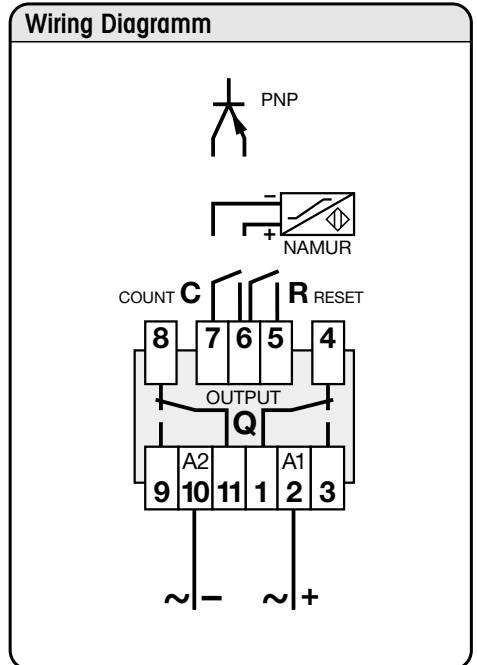
**CK**

Q is active during the preselected number of pulses and can only be reactivated after a reset.  
Q and C can be reset with the reset button.

**CI**

Q is active for t75...125 ms on the preselected pulse.  
The cycle starts again at the beginning.  
Q and C can be reset with the reset button.

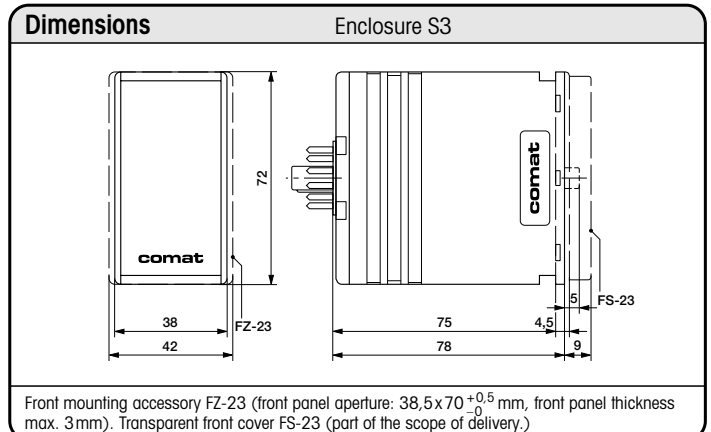
U = Voltage  
C = Count  
R = Reset  
Q = Output relays



Technical data	General
Display	3-digit, 7-segment LEDs
Load of triggering contact C/R	3mA/<15V
Triggering time C	≥ 2,5 ms
Triggering time R	≥ 35ms
Reset time	50ms
Climate	10-95% relat. humidity not condensing
Ambient temperature range	-25... +60°C
Storage temperature range	-25... +80°C
Transient voltage protection	IEC 255.4. app. E, class III
Specifications	VDE 0435/0110 Gr.C, CE
Protection/case material	IP 40/Noryl SE1 to UL 94 V-1
Weight incl. packing	approx. 180g

Technical data	Output circuit
Switching current max.	6A
Switching voltage max.	250V
Breaking capacity	AC: 1500VA; DC: ... 250W
Mechanical life	30 million operations
Contact material	Ag Ni 90/10

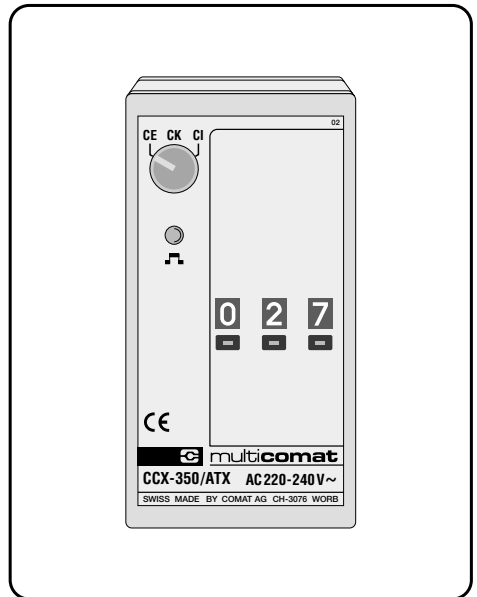
These values are valid for ohmic load or for inductive loading with spark arrest.  
Other contact material on request.



Type	Decades/Select	Decades/Display	Max. counting frequency
CCX-350	3/0-999	-	200 Hz

Supply, Power Consumption, Type					
⚡	AC 50/60 Hz		DC		Type
	U min - U max	I max	U min - U max	I max	
AC 220-240V~	190-265V~	11mA			CCX-350/ATX
AC 110-120V~	90-140V~	15mA			CCX-350/ANP
UC 24-48V≈	19-60V~	110mA	19-60V≈	110mA	CCX-350/UFK

Example of order: 1 preset counter CCX-350/ATX



### Timing modes

**CE**

Q is active after reaching the preselected number of pulses.  
Q and C can be reset with the reset button.

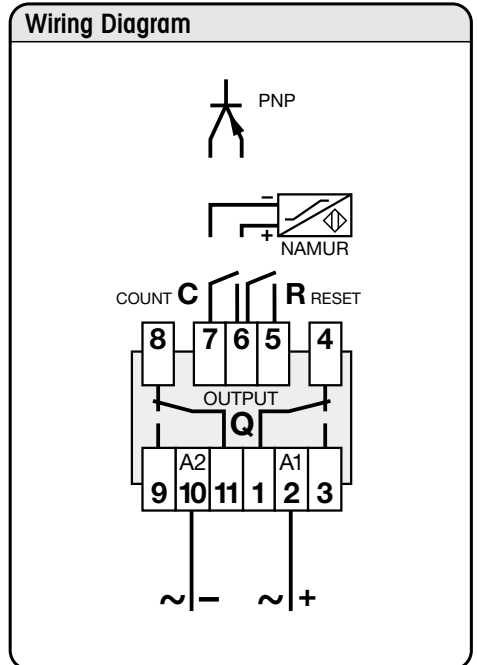
**CK**

Q is active during the preselected number of pulses and can only be reactivated after a reset.  
Q and C can be reset with the reset button.

**CI**

Q is active for t75...125ms on the preselected pulse.  
The cycle starts again at the beginning.  
Q and C can be reset with the reset button.

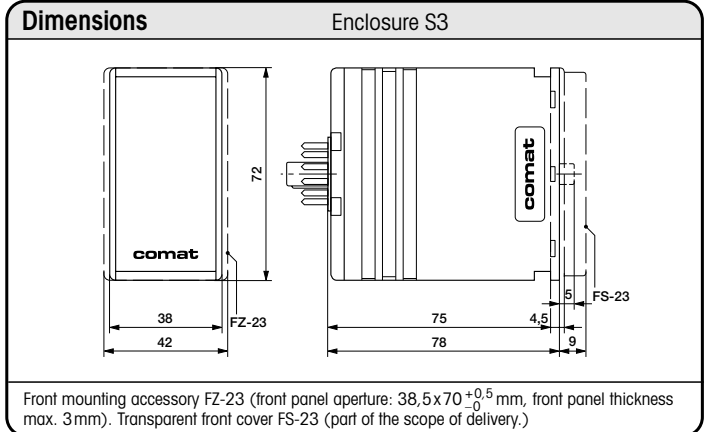
U = Voltage  
 C = Count  
 R = Reset  
 Q = Output relays



Technical data	General
Load of triggering contact C/R	3mA/<15V
Triggering time C	≥ 2,5ms
Triggering time R	≥ 35ms
Reset time	50ms
Climate	10-95% relat. humidity not condensing
Ambient temperature range	-25... +60°C
Storage temperature range	-25... +80°C
Transient voltage protection	IEC 255.4. app. E, class III
Specifications	VDE 0435/0110 Gr.C, CE
Protection/case material	IP 40/Noryl SE1 to UL 94V-1
Weight incl. packing	approx. 180g

Technical data	Output circuit
Switching current max.	6A
Switching voltage max.	250V
Breaking capacity	AC: 1500VA; DC: ... 250W
Mechanical life	30 million operations
Contact material	Ag Ni 90/10

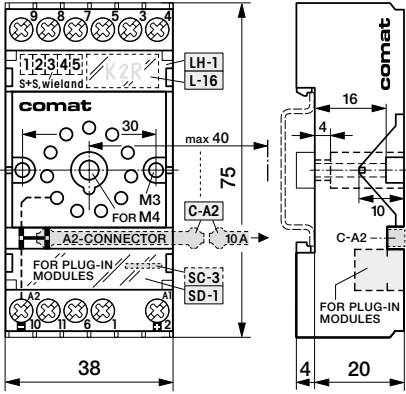
These values are valid for ohmic load or for inductive loading with spark arrest.  
Other contact material on request.



# Case S3

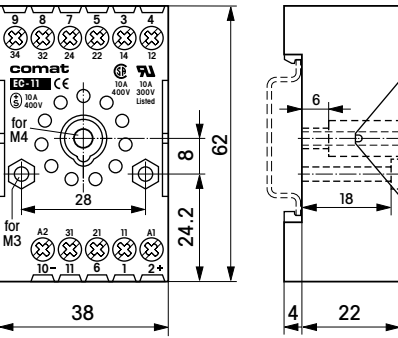
This issue replaces all previous issues.  
Availability, errors and specifications subject to change without notice.

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



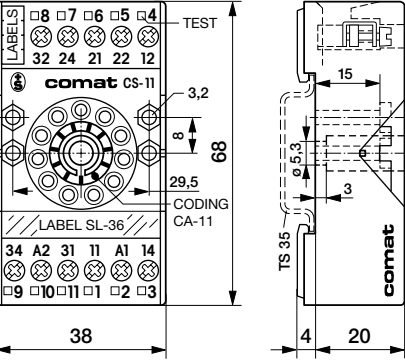
Technical drawing of the C11A relay socket. The front view shows a 38mm wide socket with 12 terminals (1-12) and a 30mm wide terminal block. Labels include LH-1, L-16, C-A2, SC-3, and SD-1. Dimensions include 38mm width, 75mm height, and 4mm mounting hole offset. The side view shows a 20mm depth and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

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



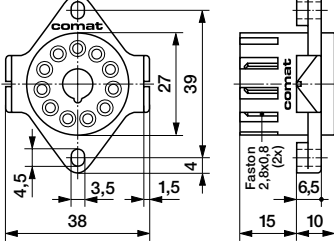
Technical drawing of the EC-11 relay socket. The front view shows a 38mm wide socket with 12 terminals (1-12) and a 28mm wide terminal block. Labels include comat, CE, and 10A 400V. Dimensions include 38mm width, 62mm height, and 24.2mm terminal block width. The side view shows a 22mm depth and 4mm mounting hole offset.

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



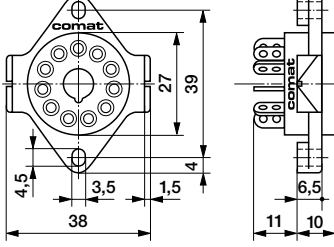
Technical drawing of the CS-11 relay socket. The front view shows a 38mm wide socket with 12 terminals (1-12) and a 29.5mm wide terminal block. Labels include comat, CS-11, LABEL SL-36, and CODING CA-11. Dimensions include 38mm width, 68mm height, and 20mm depth. The side view shows a 20mm depth and 4mm mounting hole offset.

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



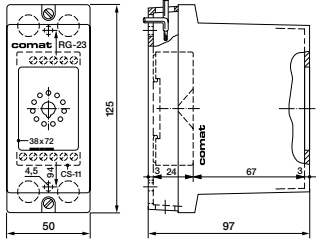
Technical drawing of the 11 PGF relay socket. The front view shows a 38mm wide socket with 6 terminals (1-6) and a 27mm wide terminal block. Labels include comat and Faston 2,8x0,8 (2x). Dimensions include 38mm width, 39mm height, and 15mm depth.

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



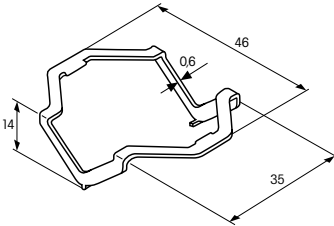
Technical drawing of the 11 PGL relay socket. The front view shows a 38mm wide socket with 6 terminals (1-6) and a 27mm wide terminal block. Labels include comat. Dimensions include 38mm width, 39mm height, and 11mm depth.

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



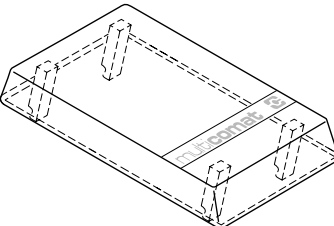
Technical drawing of the RG-23 surface mounting case. The front view shows a 50mm wide case with 6 terminals (1-6) and a 27mm wide terminal block. Labels include comat, RG-23, and CS-11. Dimensions include 50mm width, 125mm height, and 97mm depth.

**HF-24** Retaining clip made of special spring steel suitable for all relay sockets



Technical drawing of the HF-24 retaining clip. Dimensions include 46mm length, 35mm width, and 14mm height.

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

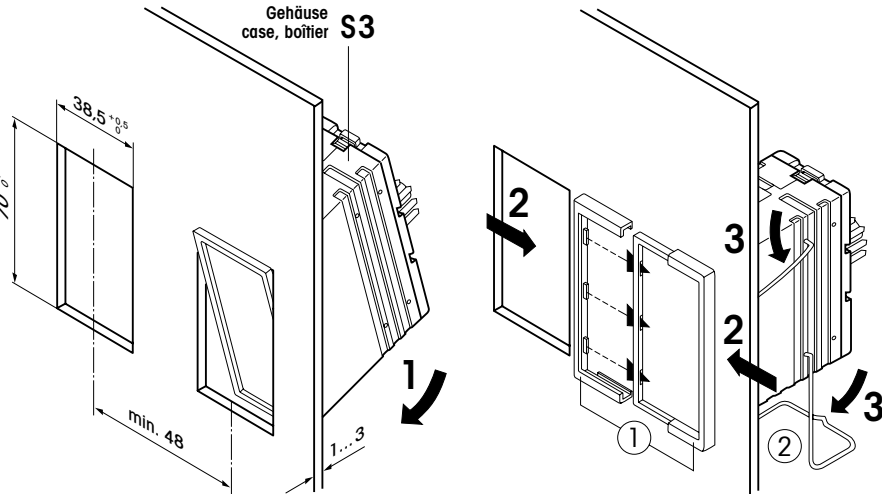


Technical drawing of the FS-23 transparent cover. Dimensions include 38mm width and 27mm height.

Blank area for additional information.

Blank area for additional information.

**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. The drawing shows the assembly of the front frame parts (1) and retaining clips (2) onto the relay socket (3). Dimensions include 38.5<sup>+0.5</sup>mm width and 70<sup>+0.5</sup>mm height. Labels include Gehäuse case, boîtier S3.