

EAN code SHT-1/230 V: 8595188130424 SHT-1/UNI: 8595188130430 SHT-1/2/230 V: 8595188130410 SHT-3/230 V: 8595188130410 SHT-3/230 V: 8595188130761

SHT-3 /230 V: 8595188136761 SHT-3 /UNI: 8595188136754 SHT-3/2 /230 V: 8595188129015 SHT-3/2 /UNI: 8595188129046

Technical parameters	SHT-1, SHT-3	SHT-1/2, SHT-3/2
Supply terminals:	A1	- A2
Voltage range:	AC/DC 12 - 240	V (AC 50 - 60 Hz)
Burden (max.):		/ DC 0.4 - 2 W
Voltage range:	AC 230 V /	′ 50 - 60 Hz
Burden:	AC max. 1	4 VA / 2 W
Max. dissipated power		
(Un + terminals):	3.5 W	5 W
Supply voltage tolerance:	-15 %;	+10 %
Back-up supply:	у	es
Summer/winter time:	auto	matic
Output		
Number of contacts:	1x changeover/SPDT (AgSnO ₂)	2x changeover/SPDT (AgSnO ₂)
Current rating:	16 A	/ AC1
Breaking capacity:	4000 VA / AC	1, 384 W / DC
Inrush current:	30 A	/ < 3 s
Switching voltage:	250 V AC1	I / 24 V DC
Mechanical life:	> 3x10 ⁷	
Electrical life (AC1):	> 0.7x10 ⁵	
Time circuit		
Power back-up:		
	up to	3 years
Accuracy:	max. ±1s / day a	at 23 °C (73.4 °F)
Minimum interval:	1 r	nin
Data stored for:	min. 10 years	
Cyclic output:	1 - 99 s	
Pulse output:	1-	99 s
Program circuit		
Number of memory places:	10	00
Program (SHT-1; SHT-1/2):	daily, weekly	
Program (SHT-3; SHT-3/2):	daily, weekly, monthly, yearly (up to year 2095)	
Data readout:	LCD display, v	vith back light
Other information		
Operating temperature:	-20 °C to +55 °C	(-4 °F to 131 °F)
Storage temperature:	-30 °C to +70 °C	(-22 °F to 158 °F)
Electrical strength:	4 kV (supp	ly - output)
Operating position:	a	ny
Mounting:	DIN rail	EN 60715
Protection degree:	IP10 clips, IP40	from front panel
Overvoltage category:	I	II.
Polution degree:		2
Max. cable size (mm²):	solid wire ma:	x. 2x 2.5 or 1x 4
	with sleeve max. 1x 2	2.5 or 2x 1.5 (AWG 12)
Dimensions:		(3.5" x1.4" x 2.5")
Weight:	(UNI) - 117 g (4.13 oz.), (230) - 115 g (4.06 oz.)	(UNI) - 132 g (4.7 oz.), (230) - 128 g (4.5 oz.)
Standards:		EN 61010-1

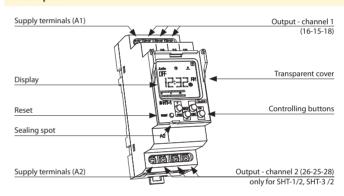
- This time switch clock SHT is used to control various appliances in real time; daily, weekly, monthly and yearly mode.
- Switching: according the program (AUTO)/constantly manually, manually to next program change/random (CUBE).
- "Holiday program" option to choose an interval when the device doesn't switch according to the standard program, but will be block during that time.
- Automatic conversion summer / winter time.
- Sealable cover of front panel, easy controlling via 4 buttons.
- 100 memory places, clear LCD display, min. interval 1 s.
- Voltage range: AC 230 V or AC/DC 12-240 V.
- Cyclic output.
- Pulse output.
- SHT-1, SHT-3: one channel version, 2-MODULE, DIN rail mounting, clamp terminals.

 $\bullet \, \textbf{SHT-1/2, SHT-3/2:} \, \text{two channel version, 2-MODULE, an individual promotion} \\$

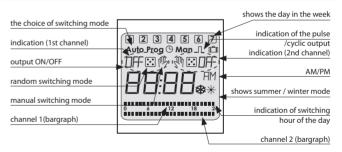
gram can be run on each channel.

	Out	put		Time prog	ramm	
	1 channel	2 channel	day	week	month	year
SHT-1	•		•	•		
SHT-1/2		•	•	•		
SHT-3	•		•	•	•	•
SHT-3/2		•	•	•	•	•

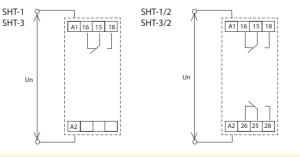
Description



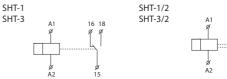
Description of displayed elements on the screen

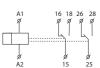


Connection



Symbol







EAN code

Technical parameters SHT-4 Power supply terminals: A1 - A2 AC 230 V / 50 - 60 Hz Supply voltage: AC max. 14 VA / 2 W Input power: Max. dissipated power (Un + terminals): 5 W Supply voltage tolerance: -15 %; +10 % Real time back-up: yes Transition to summer /winter time: automatic Output 2x changeover / SPDT (AgSnO₃) Number of contacts: Rated current: 16 A / AC1 4000 VA / AC1, 384 W / DC Switching power: Peak current: 30 A / < 3 s Switching voltage: 250 V AC1 / 24 V DC Mechanical service life: $> 3x10^7$ Electrical service life (AC1): > 0.7x10⁵ **Timing circuit** Real time reserve: up to 3 years Accuracy of operation: max. ±1 s per day, at 23°C (73 °F) Minimum triggering interval: 1 minute Program data storage period: 10 years at minimum **Programming circuit** Number of memory locations: 100 daily, yearly (until 2099) Program Data display: LCD display, backlight Other information Operating temperature: -20.. +55 °C (-4 °F to 131 °F) -30 ... +70 °C (-22 °F to 158 °F) Storage temperature: Electrical strength: 4 kV (power supply - output) Operating position: DIN rail EN 60715 Mounting: IP10 terminals, IP40 from front panel Protection degree: Overvoltage category: III. Polution degree: Max. cable size (mm²): max. 2x 2.5, max. 1x 4 with sleeve max. 1x 2.5, max. 2x 1.5 (AWG 12) Dimensions: 90 x 35 x 64 mm (3.5" x1.4" x 2.5") Weight: 128 g (4.5 oz.) - without battery Standards EN 61812-1, EN 61010-1

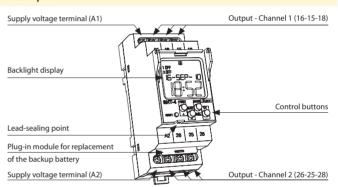
Plug-in module



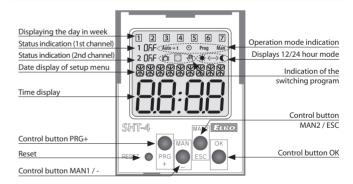


- used for controlling the lighting (billboards, advertisements, shop windows, etc.) with no light sensor required.
- function:
- by entering the geographic coordinates, the lighting can be switched on/off by sunrise and sunset
 - the preset coordinates for European cities, with optional manual adjustment of the geographical coordinates
 - during programming, 120 minutes may be added to the time of sunrise and sunset
 - selection of ON/OFF functions at sunrise or sunset
- astro-clock with adjustable interruption
- operating hours counter for each channel
- timer switching on the basis of real-time.
- two-channel design, where each channel is programmable independently of the other.
- automatic switching between winter and summer time.
- sealable transparent cover on the front panel.
- · data and time backup using the battery.
- battery life up to 3 years.
- easy replacement of the backup battery through the plug-in module, no disassembling is required.
- supply voltage: AC 230 V.
- 2-MODULE, DIN rail mounting.

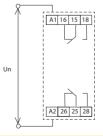
Description



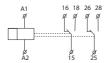
Description of items displayed on the screen



Wiring



Symbol



Type of backup battery: CR 2032 (3V)



EAN code SHT-6: 8595188148382 DCFR-1: 8595188148412

Technical parameters	SHT-6	
Terminals supply:	A1 - A2	
Voltage supply:	AC 230 V / 50 - 60 Hz	
Burden (max.):	8 VA / 0.7 W	
Max. dissipated power		
(Un + terminals):	3.5 W	
Tolerance of voltage supply:	-15 %; +10 %	
Output		
Number of contacts:	1 x changeover (AgSnO ₂)	
Rated current:	16 A / AC1	
Switching capacity:	4000 VA / AC1, 384 W / DC	
Peak current:	30 A / < 3 s	
Max. switching voltage:	250 V AC1 / 24 V DC	
Mechanical life:	> 3x10 ⁷	
Electrical life (AC1):	> 0.7x10 ⁵	
Time circuit		
Backup real. time:	up to 3 years	
Running accuracy		
- without DCF receiver:	max. ±1 s per day with 23°C (73 °F)	
Minimum switching interval:	1 min	
Data retention programs:	min. 10 years	
Program circuit		
Number of memory locations:	100	
Program:	daily, yearly (till year 2099)	
Displayed data:	LCD display with backlight	
Other information		
Working temperature:	-10 +55 °C (14 to 131 °F)	
Storage temperature:	-30 +70 °C (-22 °F to 158 °F)	
Dielectric strength:	4 kV (output supply)	
Operating position:	any	
Mounting:	DIN rail EN 60715	
Protection:	IP10 terminals, IP40 from the front panel	
Over voltage category:	III.	
Degree of pollution:	2	
Max. cable size (mm²):	max. 2x 2.5, max. 1x 4	
	with sleeve max. 1x 2.5, max. 2x 1.5 (AWG 12)	
Dimensions:	90 x 35 x 64 mm (3.5″ x 1.4″ x 2.5″)	
Weight:	114 g (4 oz.) - without battery	
Standards:	EN 61812-1, EN 61010-1	

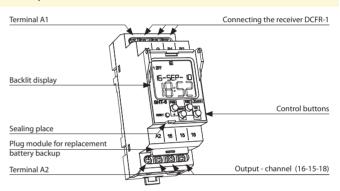
Plug-in module



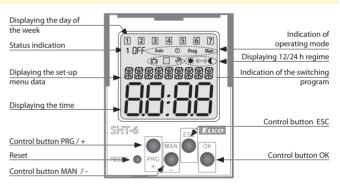


- Used for controlling appliances depending on real time, that is synchronized by a DCF 77 signal, thanks to the automatic time settings (with DCF 77 signal) it eliminates inaccuracies and errors by time
- 1 channel design with external DCF receiver.
- automatic switching between winter/summer time.
- sealable cover of the front panel.
- 100 memory places.
- backlit LCD display.
- switching according to the program: auto / manual / random / holiday program.
- Function of the operating hours counter.
- backing up data and time using the battery.
- reserve battery for up to 3 years.
- Easy replacement for the backup battery with plugging module without dismantling the device.
- Power supply: AC 230 V.
- 2-MODULE, mounting on DIN rail.

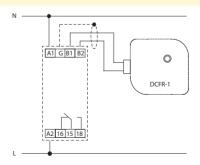
Description



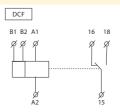
Description of the displayed elements on the screen



Connection



Symbol



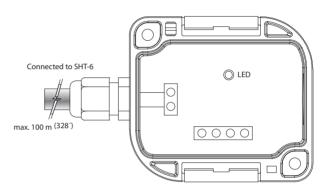


EAN code DCFR-1: 8595188148412

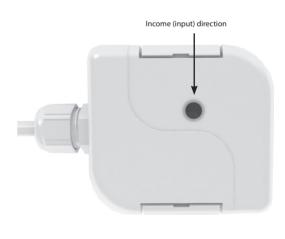
Technical parameters	DCFR-1
Connection:	2 conductors
Max. cross-connection conductors:	2.5 mm ²
Max voltage on the wires:	10 V
Indication Function:	red LED
Other information	
Storage temperature:	-30 +70 °C (-22 to 158 °F)
Protection:	IP65
Dimensions:	98 x 62 x 34 mm (39.3 x 2.4 x 1.3")
Weight:	110 g (3.88 oz)
Operating position:	perpendicular to the direction of reception
The reception area:	about 1500 km from Frankfurt / Main

- Universal DCF module, which is designed for controlling the SHT-6 timer, and other devices.
- outdoor applications (IP65 protection).
- Two-wire connection not polarity sensitive!
- Length of connecting cable is up to 100 m (328').
- visual indication of proper function module.

Description



Working position - options





SHT-7 | Switch timer clock with NFC programming capability

NEW







Technical parameters	SHT-7	
Power supply terminals:	A1 - A2	
Supply voltage:	AC 230 V / 50 - 60 Hz	
Input power:	AC max. 14 VA / 2 W	
Max. dissipated power		
(Un + terminals):	5 W	
Supply voltage tolerance:	-15 %; +10 %	
Real time back-up:	yes	
Transition to summer /winter time:	: automatic	
Output		
Number of contacts:	2x changeover / SPDT (AgSnO ₃)	
Rated current:	16 A / AC1	
Switching power:	4000 VA / AC1, 384 W / DC	
Peak current:	30 A / < 3 s	
Switching voltage:	250 V AC1 / 24 V DC	
Mechanical service life:	> 3x10 ⁷	
Electrical service life (AC1):	> 0.7x10 ⁵	
Timing circuit		
Real time reserve:	up to 3 years	
Accuracy of operation:	max. ±1 s per day, at 23°C (73 °F)	
Minimum triggering interval:	1 minute	
Program data storage period:	10 years at minimum	
Programming circuit		
Number of memory locations:	100	
Program:	daily, yearly (until 2099)	
Interface NFC:	daily, yearly (until 2099)	
Data display:	LCD display, backlight	
Other information		
Operating temperature:	-20 +55 °C (-4 °F to 131 °F)	
Storage temperature:	-30 +70 °C (-22 °F to 158 °F)	
Electrical strength:	4 kV (power supply - output)	
Operating position:	any	
Mounting:	DIN rail EN 60715	
Protection degree:	IP10 terminals, IP40 from front panel	
Overvoltage category:	III.	
Polution degree:	2	
Max. cable size (mm²):	max. 2x 2.5, max. 1x 4	
	with sleeve max. 1x 2.5, max. 2x 1.5 (AWG 12)	
Dimensions:	90 x 35 x 64 mm (3.5" x1.4" x 2.5")	
Weight:	125 g (4.4 oz.) - without battery	
	EN 61812-1, EN 61010-1	

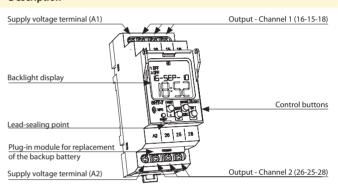
Plug-in module



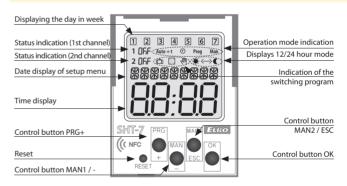


- Digital switch timer clock with day and year program and setting via smartphone supporting NFC transfer
- Timer switch switching based on real time in day and week mode
- 100 memory locations for on / off setting
- OFF line setting of programs in the application
- Backup / insertion into the phone memory for transfer to the next timer switch
- · two-channel design, where each channel is programmable independently of the other.
- automatic switching between winter and summer time.
- sealable transparent cover on the front panel.
- data and time backup using the battery.
- battery life up to 3 years.
- easy replacement of the backup battery through the plug-in module, no disassembling is required.
- supply voltage: AC 230 V.
- 2-MODULE, DIN rail mounting.

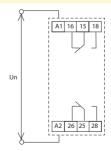
Description



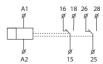
Description of items displayed on the screen



Wiring



Symbol



Type of backup battery: CR 2032 (3V)