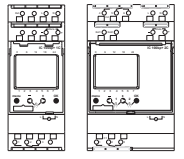


IC 100kp+

Operating instructions



Art. no.
1C: CCT15490, CCT15491
2C: CCT15492, CCT15493

Accessories



Wall-mounted light sensor
Art. no. CCT15260
Contained in the scope of delivery.



Built-in light sensor
Art. no. CCT15261

For your safety



DANGER
Risk of serious damage to property and personal injury, e.g. from fire or electric shock, due to incorrect electrical installation.

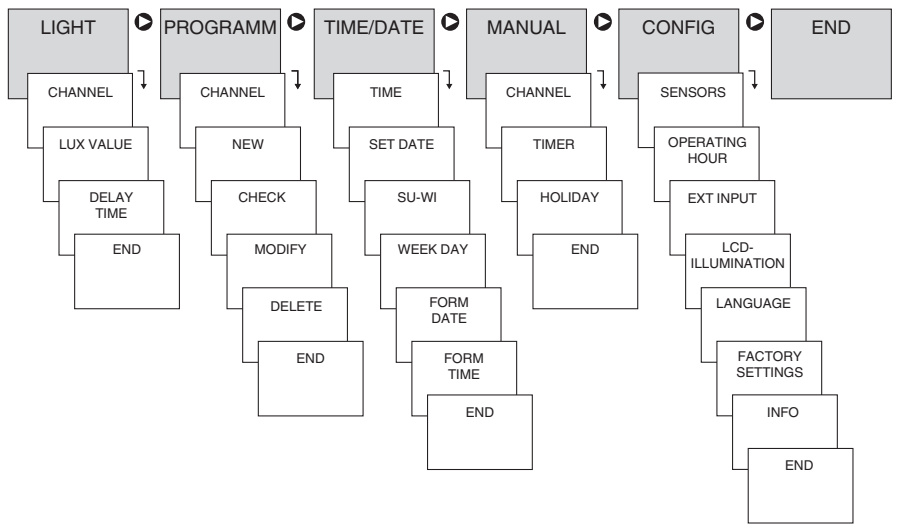
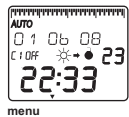
Safe electrical installation can only be ensured if the person in question can prove basic knowledge in the following areas:

- Connection to installation networks
• Connecting several electrical devices
• Laying electric cables

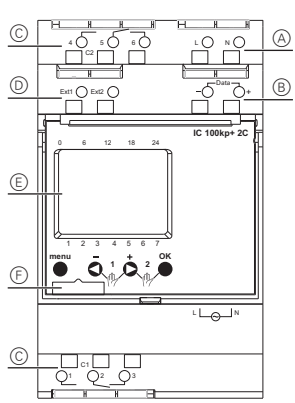
These skills and experience are normally only possessed by skilled professionals who are trained in the field of electrical installation technology. If these minimum requirements are not met or are disregarded in any way, you will be solely liable for any damage to property or personal injury.

Getting to know IC 100kp+

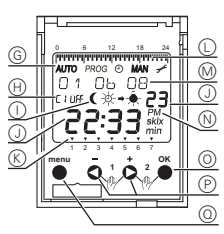
IC 100kp+ is a light-sensitive switch whose external light sensor measures the brightness, and when the adjustable lux value has been reached, the device switches on at sunset and off at sunrise. You can define different lux values for each channel as the switch-on and switch-off thresholds. Independently of this, 84 fixed switching times can be programmed. The device has one external input per channel to which you can connect buttons or switches. It is installed on a DIN rail (DIN EN 60715). The device can be programmed on the device itself or via Kit LTS software. The programming key is used to transmit the data.



Product details



- (A) Mains connection
(B) Light sensor input
(C) Switch output (C2 only for CCT15492, CCT15493)
(D) External input (Ext2 only for CCT15492, CCT15493)
(E) Display
(F) Interface for programming key



- (G) Operating modes
(H) Channel status (alternating C1/C2)
(I) Display: Sunrise/sunset, program, lamp on/off
(J) Time display
(K) Week days from 1-7 (day 1 = Monday)

- (L) Visualisation of the programmed On periods
(M) Date display
(N) "PM": Afternoon

Push-buttons:

- (O) „OK“: Confirm selection, save selection
(P) „-“, „+“: Navigation and setting keys
(Q) „menu“: Call up menu, cancel and exit backwards step by step

Mounting IC 100kp+

- (1) Place the IC 100kp+ onto the DIN rail.
(2) Connect cables:
- Remove 8 mm (max. 9 mm) of insulation
- Open the plug-in terminal with a screwdriver and plug in the cable at a 45° angle. (max. 2 cables per plug-in terminal)

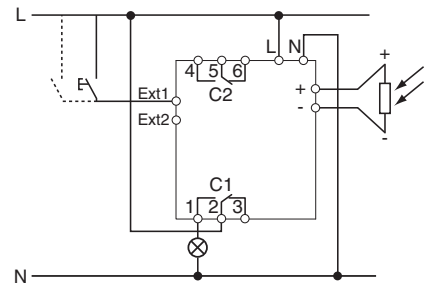
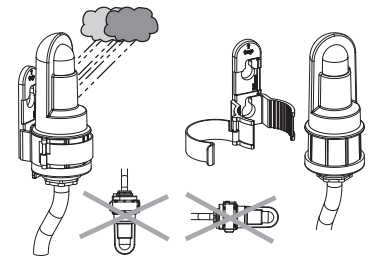


Table with 3 rows and 2 columns: OFF, ON, and connections for C1 and C2.

- (3) Connect the button/switch to the external input. (Cable length: max. 100 m)
(4) Mount the light sensor on the exterior wall of a building or on a mast. Note:
- For street lighting, the light sensor should face east; for shop window or factory lighting, it should face north.
- When switched on, the load must not adversely affect the light sensor.



You can connect up to four light sensors in parallel on up to a maximum of ten IC 100kp+ units. The sensor that sends the lowest lux value is always the effective one.

CAUTION To avoid problems, do not lay the light sensor line in parallel to the power line.

- (5) Connect the light sensor to the light sensor input. Observe the polarity. (Cable length: max. 100 m)
(6) Connect the mains voltage.

Putting IC 100kp+ into operation

For initial operation, proceed as follows:

- 1 Select language (German, English, ...).
- 2 Select between "Retain programs" or "Delete".
- 3 Select date format (D/M/Y, M/D/Y, Y/M/D).
- 4 Set year, month, day.
- 5 Select time format (24 h, 12 h).
- 6 Set hour, minute.
- 7 Select summer time/winter time.

- EUROPE
- GB/IRL/P (Great Britain/Ireland/Portugal)
- FIN/GR/TR (Finland/Greece/Turkey)
- CDN/USA (Canada/USA)
- FREE RULE (choice of month, week, day and time)
- FIX DATE (selection of month, date and time)
- NONE

In the display, the automatic and measured-value displays appear in alteration. When the light sensor is connected, the measured lux value (lx) is displayed.

This device is ready for operation.

Setting IC 100kp+



You can make the settings directly on the device or you can use Kit LTS, art. no. CCT15860, with the associated software (newest version: www.schneider-electric.com).

LIGHT menu

In the LIGHT menu you can check and modify lux values and delay time per channel.

- Lux Value
You can set the lux values for each week day individually or for the entire week.
 - Lux On ☾☀
Lux value for switching on at sunset.
 - Lux Off ☀☾
Lux value for switching off at sunrise.



The values for "Lux On" and "Lux Off" should be in the twilight margin (0-30 lux). 15 lux is pre-set as an ideal mean value.

- Delay Time
You can delay the switching of loads when the lux value has been reached by an adjustable amount of time (minutes, seconds). A delay time of 1 minute is pre-set. The following are available:
 - On Delay Time
When elapsed, the symbol ☀ blinks in the display.
 - Off Delay Time
When elapsed, the symbol ☾ blinks in the display.

PROGRAM menu

In the PROGRAM menu you can program, check, change and delete switching times per channel.

- Programming new switching time
You have two options:
 - Off period (e.g. as overnight interruption)
 - On period (e.g. as daytime switch-on)

A switching time always consists of a start and end time (hour, minute, week day) that you can copy to other week days.

TIME/DATE menu

In the TIME/DATE menu you can:

- Set the time (hour, minute)
- Set the date (year, month, day)
- Select summer time/winter time (see list in the section "Putting IC 100kp+ into operation")
- Define first day of the week (e.g. Monday for Europe)
- Select Form date (D/M/Y, M/D/Y, Y/M/D)
- Select Form time (24 h, 12 h)

MANUAL menu

In the MANUAL menu you can:

- Set the timer
You can switch "On" or "Off" for an adjustable time (hours, minutes). You can also stop the timer early while the time is running.
- Define holidays
You can switch "On" or "Off" for an adjustable period of time from ... to ... (year, month, day, hour). You can then check, change and delete the holiday settings.

CONFIG menu

In the CONFIG menu you can adjust and check the sensors, operating hours counter, external inputs, LCD illumination, language, factory settings and info.

- Sensors
IC 100kp+ has a light sensor input. The connected light sensors are set in the factory to be active for all channels. The sensor that sends the lowest lux value is always the effective one.

Each sensor detected can be activated or deactivated channel by channel. In the selected sensor, the red LED blinks. If no sensor is connected, "No Sensor" is displayed.

- Operating hours counter
Display of the operating hours per channel. If necessary, you can reset the counter to zero.
- External input
IC 100kp+ has one external input per channel to which you can connect a button or switch.

Functions when connecting a button:

- Override
In the manual switching, the current channel status is reversed, namely up to the next automatic or programmed switching.
- Timer
At the push of a button you switch the relevant channel "On" or "Off" for an adjustable time (hours, minutes). You can stop the timer early while the time is running by pressing the button and holding it for >3 s.
- Staircase light
At the push of a button you switch the relevant channel "On" for an adjustable time (minutes).

Additional settings of the staircase light:

- Resettable
At the push of a button within the running time, the time sequence starts again.
- Early cutout
At the push of a button within the running time, the time sequence is cancelled.

Functions when connecting a switch:

- Perm On
When you actuate the switch, the channel is switched on permanently.
- Perm Off
When you actuate the switch, the channel is switched off permanently.
- Only Lux
When you actuate the switch, only the automatic switching at twilight is in effect.



When the switch is actuated, the programmed switching times are not in effect.

- LCD illumination
 - After 1 minute off
Lighting goes off 1 minute after the last actuation of the buttons.
 - Always on
- Select language (German, English, ...)
- Load factory set
Then you have to put the device into operation again (see section "Putting IC 100kp+ into operation").
- Info (specifications for the service hotline)

Operating IC 100kp+

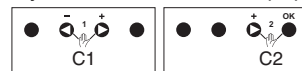
Manual and permanent switching

You can operate IC 100kp+ by a key combination. Manual and permanent switching are available for you.



If a switch is connected to the external input, the "Perm ON" and "Perm OFF" function of the switch have priority over the manual operation on the device.

Key combination for channel 1 (C1), channel 2 (C2)



- Manual switching
In the manual switching, the current channel status is reversed, namely up to the next automatic or programmed switching.
 - Activating and cancelling manual switching:
Briefly press both buttons at the same time.
- Permanent switching
In permanent switching, the channel is switched on or off permanently.
 - Activating permanent switching:
Press both buttons 2 s long at the same time.
 - Cancelling permanent switching:
Briefly press both buttons at the same time.



In permanent switching, the programmed switching times are not in effect.

Reset

You can reset the device with a key combination. Then you have to put the device into operation again (see section "Putting IC 100kp+ into operation").

Key combination for reset



- Briefly press all four buttons at the same time.

Using the programming key

To make it easier to program the device, you can use the programming key after you have programmed it with the Kit LTS software.

- Plug the programming key into the interface
You have four options:
 - Copy key -> IC 100
You can choose between "Copy Light+Prog" (copies light settings and programmed switching times) or "Copy All Data" (copies all settings).
 - Copy IC 100 -> Key
All programmed switching times and settings are copied onto the programming key.
 - Run key
You can use this to start the programmed switching times on the programming key.
 - Check key
You can check the lux value, delay time and program of the programming key.

Technical data

Nominal voltage:	1C = AC 230 - 240 V 2C = AC 100 - 240 V +10% / -15%
Frequency:	50/60 Hz
Nominal current:	16 A, cos φ = 1 10 AX, cos φ = 0.6
Minimum load:	100 mA, 12 V =, ohmic
Incandescent lamps:	AC 230 V, max. 2600 W
Halogen lamps:	AC 230 V, max. 2600 W
Fluorescent tubes:	AC 230 V, max. 2300 VA
Fluorescent lamps with electronic ballast (EB):	max. 730 W (80 µF), parallel-compensated
Compact fluorescent lamps with electronic ballast (EB):	24 x 7 W, 15 x 11 W, 8 x 20 W
Mercury- and sodium-vapour lamps:	max. 800 VA (80 µF), parallel-compensated
LED lamps:	30 W (LEDs <2 W) 100 W (LEDs 2-8 W)
Motors:	max. 2300 VA
Switch output:	phase-independent (zero crossing switching)
Brightness range:	1-99,000 lx
Power consumption:	1C = max. 1,7 W 2C = max. 1,7 W
Ambient temperature:	IC 100kp+:-30 °C to +55 °C Light sensor:-40 °C to +70 °C
Connecting terminals:	2 x 0.5 - max. 2.5 mm ² , fixed wires
Cable length:	External input: Max. 100 m Light sensor: Max. 100 m
Battery life:	10 years
Protection class:	II (light sensor III) when installed correctly
Type of protection:	IC 100kp+:- IP 20 in accordance with EN 60529 Wall-mounted light sensor:- IP 55 in accordance with EN 60529 Built-in light sensor:- IP 66 in accordance with EN 60529

Schneider Electric Industries SAS

If you have technical questions, please contact the Customer Care Center in your country.
www.schneider-electric.com