# Light sensitive switches and electronic room thermostat


4126 23


4 126 26


0037 21


0695 17

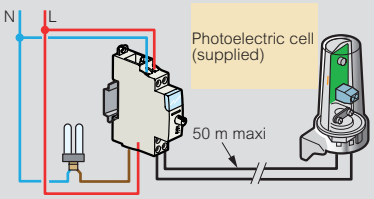
Dimensions **see e-catalogue**

Conform to IEC 60669-2-1
Can be used to switch a lighting circuit "ON" and "OFF" based on light conditions (nightfall, daybreak)
Supplied with photoelectric cell housed in Plexo weatherproof box
Power supply: 230 V∿ - 50/60 Hz

| Pack | Cat.Nos | Standard |
|---|---|---|
| 1 | 4 126 23 | Output 16 A - 250 V∿ - μ cos φ = 1<br>2000 W incandescent<br>2000 W series compensated fluorescent<br>1000 W parallel compensated fluorescent 70 μF<br>1000 W energy-saving bulb<br>2000 W halogen bulb + ferromagnetic transformer<br>2000 W halogen bulb + electronic transformer<br>Automatic timer response<br>Adjustable from 1 to 100 000 lux<br>Number of modules: 1<br>Supplied with photoelectric cell Cat.No. 4 128 58 |
| 1 | 4 128 58 | Replacement photoelectric cell for use with standard light sensitive switch Cat.No. 4 126 23 - IP 55 - IK07 |
| | | **Programmable** |
| 1 | 4 126 26 | 56 programmes possible : daily, weekly or yearly programmes<br>Output 16 A - 250 V∿ - μ cos φ = 1<br>2000 W incandescent<br>2000 VA series compensated fluorescent<br>1000 W energy-saving bulb<br>Integrated hour counter<br>High precision clock : ± 0.1 sec per day at 25°C<br>Working reserve : 5 years<br>Adjustable from 3 to 100 000 lux<br>Automatic changeover between summer/winter time<br>Number of modules: 2<br>Programmed directly on keypad, or using programme transfer key Cat.No 4 128 72 (p. 55)<br>Supplied with IP 65 photoelectric cell Cat.No 4 128 58 |
| | | **Programmable with weekly time switch** |
| 1 | 0 037 21 | Output 10 A - 250 V∿ - μ cos φ = 1<br>1000 W incandescent<br>2000 VA fluo serie compensated<br>Timer response: 60 sec<br>Adjustable from 2 to 60000 lux<br>8 possible programmes (off periods during the night)<br>Number of modules: 2 |
| | | **Light sensitive switches, 230 V∿** |
| 5 | 0 695 17 | Grey<br>**Light sensitive switch 1 function - IP 55/65 – IK 07**<br>Can be used to switch a lighting circuit "ON" and "OFF" based on light conditions (nightfall, daybreak)<br>Supplied in one piece, including photoelectric cell<br>Maximum load:<br>- 1 400 W incandescent and halogen lamps 230 V∿<br>- 400 VA fluorescent tubes<br>Luminosity threshold: 0.5 to 1 500 lux<br>(use with back box Cat No. 0 696 56) |

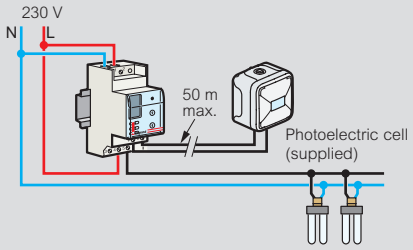
## Standard light sensitive switch (Cat.No 4 126 23)

Switch "ON" and "OFF" defined by a light level threshold




## Programmable light sensitive switch (Cat.No 0 037 21)

Controls lighting according to the time and light level
Minimum switching interval: 1 minute
Working reserve: 100 hrs
Manual switch: override/ programme/stop
Automatic changeover to summer/winter time
Temporary override with automatic return to programme




This mark represents energy saving solution

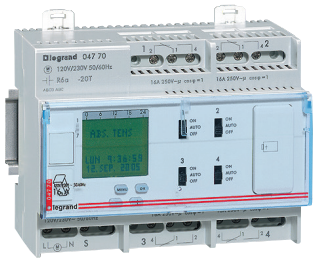
# Programmable time switches

**with digital display**


0 037 05


4 126 31


4 126 30


0 047 70

Dimensions **see e-catalogue**

According to IEC 60730, IEC 60730-2-7
For switching an electric circuit (lighting, heating) ON or OFF at selected times during a pre-programmed time period
Temporary (automatic return) or permanent (forced switching ON or OFF) override on output

| Pack | Cat.Nos | Standard - daily or weekly programme with 6 years clock working reserve | Number of modules |
|---|---|---|---|
| | | Compatible with alternative renewable energy systems such us photovoltaic panels<br>Automatic summer/winter changeover<br>Clock precision: ± 1 sec per day<br>Minimum programme setting: 1 min<br>28 programmes | |
| | | **Power supply 120/230 V∿ - 50/60 Hz** | |
| 1 | 0 037 05 | 1 output 16 A - 250 V∿<br>μ cos φ = 1 per 1 inverter contact<br>Low consumption: 0.1 W | 1 |

| Pack | Cat.Nos | Multiple functions - daily or weekly programme with 6 years clock working reserve | Number of modules |
|---|---|---|---|
| | | Programme settings: on daily or weekly basis<br>15 languages<br>A programme consists of a on and off time and their assignement to certain days<br>Option to suspend the programme for a specific period to set-up with start and date<br>Minimum programme setting: 1 s.<br>High precision clock: ± 0.1 sec per day<br>Particularly suited to irregular cycles:<br>- security installations (access point, alarms, etc.),<br>- industrial installations (pump stations, etc.)<br>Programmed directly on keypad, or using program transfer key Cat.No 4 128 72<br>Additional functions including random (irregular cycles), hour counters | |
| | | **Power supply 230 V∿ - 50/60 Hz** | |
| 1 | 4 126 31 | 1 output 16 A - 250 V∿<br>56 programmes<br>μ cos φ = 1 per 1 inverter contact<br>84 impulses max. | 2 |
| 1 | 4 126 41 | 2 output 16 A - 250 V∿<br>2 x 28 programmes<br>μ cos φ = 1 per 2 inverters contacts | 2 |
| | | **Programming transfer key** | |
| 1 | 4 128 72 | Can be used to store programme settings made:<br>- Directly on a multifunction and multi-programme time switch Cat. No. 4 126 31/41 (loading on device)<br>- with the programming software installed on a PC running Windows (loading on data loader) | |

| Pack | Cat.Nos | MicroRex Plus D21 - weekly digital time switch | Number of modules |
|---|---|---|---|
| | | Clock precision: ± 1 sec per day<br>Working reserve - 3 years | |
| | | **Power supply 230V~ - 50/60 Hz** | |
| 1 | 6 037 70 | 1 output 16A - 250V~<br>56 programmes | 2 |

| Pack | Cat.Nos | Multiple functions annual program | Number of modules |
|---|---|---|---|
| | | **Annual programme**<br>High precision clock: ± 0.2 sec per day<br>For programming periods throughout the year<br>28 programmes per channel possible:<br>- weekly / astronomical programmes<br>- yearly programmes<br>- exceptional programmes<br>Manual override (switch on and off) for every channel on the front of the switch<br>Programmed directly on keypad, or using programme transfer key supplied | |
| 1 | 4 126 30 | 2 outputs - 230 V∿ - 50/60 Hz | 2 |
| 1 | 0 047 70 | 4 outputs - 120/230 V∿ - 50/60 Hz | 6 |
| | | **Battery** | |
| 1 | 0 047 82 | Working reserve 5 years for Cat.No 0 047 70 | |

| Pack | Cat.Nos | Programming software |
|---|---|---|
| | | Can be used to create, save and transfer program settings for multifunction and multi-program time switches, Cat.Nos 0 047 70, 4 126 31/41 and 4 126 54<br>Data is transferred to the program transfer key Cat.No 4 128 72, using the data loader connected to the USB port of the PC |
| 1 | 4 128 73 | Kit comprising software on CD-ROM, data loader and transfer key<br>Windows Vista compatible |

| Pack | Cat.Nos | For outdoor illuminations | Number of modules |
|---|---|---|---|
| | | Astronomical<br>For autonomous control of outdoor illuminations<br>Automatic programming: simply initialise the products for the location with no need to install a photoelectric cell<br>Programmed directly on keypad, or using programme transfer key Cat.No 4 128 72<br>High precision clock: ± 0.2 sec per day | |
| | | **Power supply 230 V∿ - 50/60 Hz** | |
| 1 | 4 126 54 | 1 output 16 A - 250 V∿<br>28 programmes | 2 |

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# Programmable time switches

## with analogue dial

4 127 90

4 127 95

Dimensions **see e-catalogue**

According to IEC 60730, IEC 60730-2-7
Programmed via captive segment
1-module device: min. 1 segment
3-module device: min. 2 segments
Power supply: 230 V~ - 50/60 Hz
3-position override switch "ON-AUTO-OFF" on front panel
Manual changeover to summer/winter time
1 outlet 16 A - 250 V~ - μ cos φ = 1

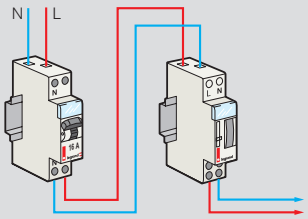
| Pack | Cat.Nos | Daily programme | Number of modules |
|---|---|---|---|
| | | 1 segment = 15 minutes<br>Accuracy: ± 5 minutes | |
| | | **Vertical dial**<br>Minimum switching time: 15 minutes<br>N/O contact | |
| 1 | 4 127 80 | Without working reserve | 1 |
| 1 | 4 127 90 | With 100 h working reserve | 1 |
| | | **Horizontal dial**<br>Minimum switching time: 15 minutes<br>Changeover switch | |
| 1 | 4 128 12 | Without working reserve | 3 |
| 1 | 4 128 13 | With 100 h working reserve | 3 |
| | | **Weekly programme** | |
| | | 1 segment = 2 hours<br>Accuracy: ± 30 minutes | |
| | | **Horizontal dial**<br>Minimum switching time: 4 hours<br>Changeover switch | |
| 1 | 4 127 95 | With 100 h working reserve | 3 |
| | | **Vertical dial**<br>Minimum switching time: 2 h<br>N/O contact | |
| 1 | 0 037 44 | With 100 h working reserve | 1 |

# Programmable time switches

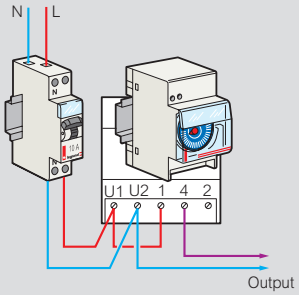
## with analogue and digital dial

### Diagrams

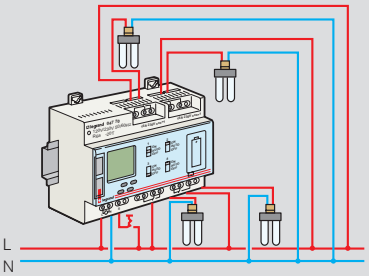
Cat.Nos 4 127 80/90/0037 44



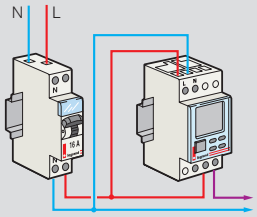

Cat.Nos 4 128 12/13/95



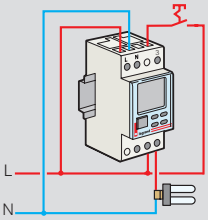

Cat.No 0 047 70




Cat.Nos 4 126 31




Cat.No 4 126 54




Output closing and breaking times are calculated based on the date, the actual time when the device was switched and on geographical coordinates of the actual location

### Technical characteristics

| Cat.Nos | Prog. time | Min. programme settings | Working reserve | Summer/ winter time | Outputs 16 A | Nb of prog. | Nb of modules |
|---|---|---|---|---|---|---|---|
| **0 037 05** | 7 d | 1 min | 6 years | auto | 1 | 28 | 1 |
| **4 126 31** | 24 h/7 d | 1 s | 6 years | auto | 1 | 56 | 2 |
| **4 126 41** | 24 h/7 d | 1 s | 6 years | auto | 2 | 2 x 28 | 2 |

| Cat.Nos | Programme | Segment | Min. switching time | Working reserve | 16 A output via contact | | Nb of modules |
|---|---|---|---|---|---|---|---|
| | | | | | N/O | Chang. S. | |
| **4 128 12** | 24 h | 15 min | 30 min | without | - | 1 | 3 |
| **4 128 13** | 24 h | 15 min | 30 min | 100 h | - | 1 | 3 |
| **4 127 80** | 24 h | 15 min | 15 min | without | 1 | - | 1 |
| **4 127 90** | 24 h | 15 min | 15 min | 100 h | 1 | - | 1 |
| **4 127 95** | 7 d | 2 h | 4 h | 100 h | - | 1 | 3 |
| **0 037 44** | 7 d | 2 h | 2 h | 100 h | 1 | - | 1 |

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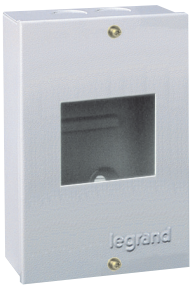
# Rex time switches

## analogue for DIN rail mounting and wall mounting MaxiRex


6 499 24P


6 499 24M




6 056 01SP

Dimensions **see opposite**
Technical charcteristics **see opposite**

According to IEC 60730, IEC 60730-2-7 and IP 53 IEC 60529
Robust analogue daily and weekly time switch for DIN-rail mounting, wall mounting and for installation in plastic and metallic box
• With manual switch (On/Automatic)
• Hands can be moved clockwise and anti-clockwise
Dimensions for metallic box (mm) : 95 (W) x 145 (H) x 53 (D)

| Pack | Cat.Nos | | |
|---|---|---|---|
| | | **MaxiRex with 4 terminals** (include plastic box) | |
| | | **MaxiRex 4TB** (daily, without working reserve) | |
| | | Voltage | Frequency |
| 1 | 6 499 17 | 230V | 50 Hz with plastic box |
| 1 | 6 499 17M | 230V | 50 Hz with metal box |
| | | **MaxiRex with 5 terminals** | |
| | | **MaxiRex 5QT** (daily, with battery for 500 hours) | |
| | | Voltage | Frequency |
| 1 | 6 499 24 | 230 V | 50-60 Hz without box |
| 1 | 6 499 24M | 230 V | 50-60 Hz with metal box |
| 1 | 6 499 24P | 230 V | 50-60 Hz with plastic box |
| | | **MaxiRex 5QW** (weekly, with battery for 500 hours) | |
| | | Voltage | Frequency |
| 1 | 6 499 39 | 230 V | 50-60 Hz without box |
| 1 | 6 499 39M | 230 V | 50-60 Hz with metal box |
| 1 | 6 499 39P | 230 V | 50-60 Hz with plastic box |
| | | **Accessories** | |
| 1 | 6 056 01SP | Metal box for 3 modules<br>Dimensions : 115(W) x 175(H) x 59(D) mm | |

Remarks :
The **"off"** mode of timer operation should be used a **"by-pass" switch** & provided by electrical contractors for Government projects.

Other voltages are available upon request

Rex time switches

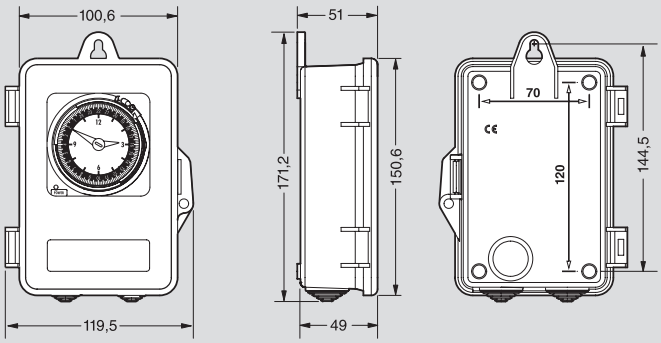
analogue for DIN rail mounting and wall mounting MaxiRex

## Technical characteristics

| Description | 4TB | 5QT | 5QW |
|---|---|---|---|
| Switching capacity<br>Cos ø = 1<br>incandescent<br>ind. Cos ø = 0.6 | <br>20 A<br>4 A<br>10 A | <br>20 A<br>4 A<br>10 A | <br>20 A<br>4 A<br>10 A |
| Minimum setting unit | 10 min | 10 min | 1 hour |
| Minimum setting interval | 10 min | 10 min | 2 hour |
| Operating temperature | -10 °C to +50 °C | -10 °C to +50 °C | -10 °C to +50 °C |
| Protection modus | IP 53 (plastic box) | IP 53 (plastic box) | IP 53 (plastic box) |
| Time accuracy | +/-15 sec per month | +/-15 sec per month | +/-60 sec per month |
| Power consumption | 0.32 W | 0.32 W | 0.32 |
| Working reserve | None | 500 hours | 500 hours |

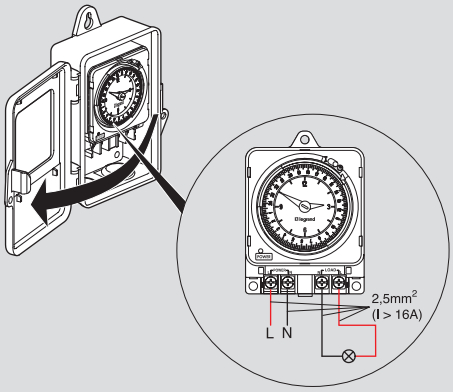
## Dimensions (mm)

**MaxiRex**

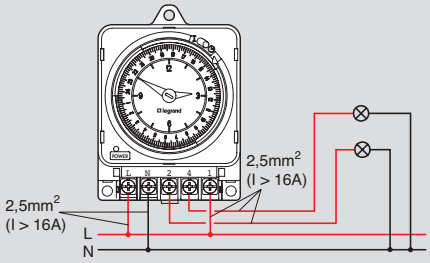



## Wiring diagram

**MaxiRex 4TB**




**MaxiRex 5QT/5QW**



# Totallising hour counter

Totallising hour counter


0 495 55

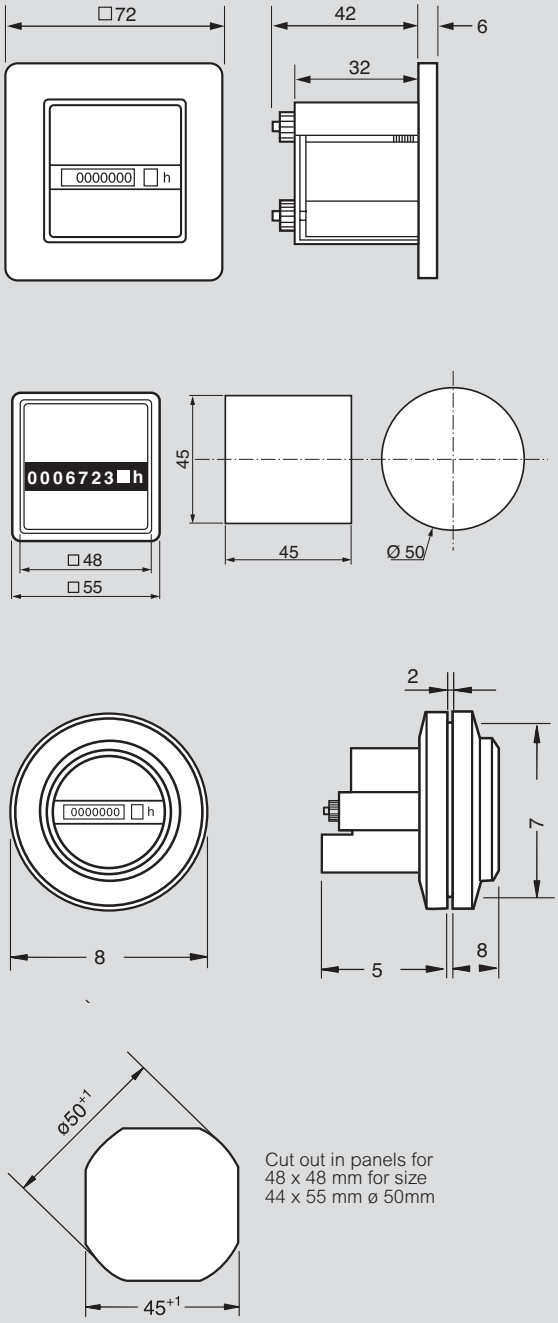
0 495 97

Dimensions **see opposite**

According to IEC 1010-1, EN 61010-1, VDE 0411 part 1

| Pack | Cat.Nos | Totallising hour counter | | |
|---|---|---|---|---|
| | | **Form 48 x 48 mm**<br>AC-version: = 0... 99999,99 h<br>DC-version: = 0... 999999,9 h<br>Weight abt. 75 g | | |
| | | **Form Ø 80 mm**<br>protected against vibrations by a rubber buffer ring<br>IP 67: 0...99999,9 h<br>Weight abt. 145 g | | |
| | | **Frontpanel mounting**<br>Form 48 x 48 mm, IP 40<br>upgrading frame 55 x 55 included | Voltage | Frequency |
| 1/10 | 0 495 52 | | 24 V ±10% | 50 Hz |
| 1/10 | 0 495 53 | | 120 V ±10% | 50 Hz |
| 1/10 | 0 495 54 | | 120 V ±10% | 60 Hz |
| 1/10 | 0 495 55 | | 230 V ±10% | 50 Hz |
| 1/10 | 0 495 57 | | 230 V ±10% | 60 Hz |
| | | **DIN-rail mounting**<br>Form 48 x 48 mm, IP 40 | Voltage | Frequency |
| 1/10 | 0 495 62 | | 230 V ±10% | 50 Hz |
| | | **Round, Ø 80 mm, IP 67 rubber buffer** | Voltage | Frequency |
| 1/10 | 0 495 63 | | 12...36 V ±10% | DC |
| | | **Accessories** | | |
| 1/10 | 0 495 97 | Frame 55 x 55 mm | | |

## Dimensions (mm)




Cut out in panels for
48 x 48 mm for size
44 x 55 mm ø 50mm