A complete range for any application

time switches

legrand®

A complete range

Legrand Germany is developing and manufacturing for more than 50 years quality time switches for nearly any application. Therefore Rex-products "Made in Germany" are synonymous for innovative solutions. But as time never stands still we will be offering you flexible and quick solutions for standard and special application in future by using our intensive and innovative R&D.

Legrand – proven quality

	Australia	
	Canada	Canadian Standards Association (CSA)
	Denmark	Danmarks Elektriske Materielkontroll (DEMKO)
	Germany	Verband Deutscher Elektrotechniker (VDE)
	Finland	FIMKO
	Italy	Instituto Italiano del marchio di qualità (IMQ)
	Norway	Norges Elektriske Materiellkontroll (NEMKO)
	Austria	Verband für Elektrotechnik (ÖVE)
	Poland	Biuro Badawcze d/s Jakoski (BBJ)
	Sweden	Svenska Elektriska Materielkontrollanstalten (SEMKO)
	Switzerland	Schweizerischer Elektrotechnischer Verein (SEV)
	Czech. Republic	Elektrotechnicky Zkusebni Ústav (EZU)
	United States	Underwriters Laboratories (UL)

The above mentioned approvals are valid according to date of printing.

for any application

Summary of the contents

Just a question of time –

Whatever your application are - Rex time switches will offer the solution: from control of illumination, control of household application like heating and air conditioning, control of refrigeration and industrial or special application.

Control of illumination

Control of illumination concerns a wide field: from private housing, public places to industries and industrial application.

For example:
- Shop window lighting
- Street lighting
- Parking houses
- Advertising panels
- Office lighting
- Green houses

Private households

In private households you may find many applications where to use Rex time switches and stair-case time lag switches.

- Staircase illumination and main entries
- Control of switching off stand-by-function of many electrical products
- Security light
- Switch off TV
- Control of shutters
- Control of canvas blinds

HVAC control

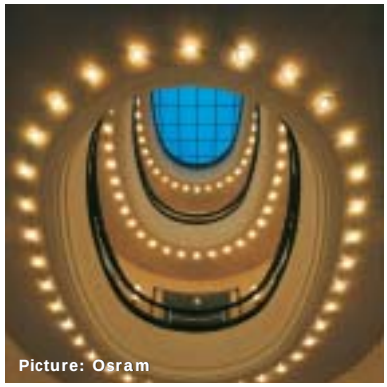
- Control of circulating pump
- Control units of heating systems
- Repeatingly short time control of pumps

Shop window illumination

Illumination of aquariums

Control of heating systems

Street lighting



Illumination of stair cases

Control of pumps

Rex is offering the solution

Refrigeration

Our specially designed time switches for refrigeration do offer solutions for defrost application

Control of industrial application

Relays, hour counters and many time switches or time switch modules are being used for control of machines and process control

- Preheating of injection moulds
- Test running of emergency generators

Further application

Rex time switches will offer you even for many special application the solution

- Control of feeding conveyor belts at animal farms
- Control of swimming pools and spas
- Control of sewage and water treatment
- Tower clocks and tower bells
- Outdoor / landscape illumination
- Preheating of industrial ovens
- Preheating of saunas

Refrigeration

Control panels

Control of ringing bells

Cooling rooms

Industrial illumination

Water fountains

Rex-Analogue time switches
Front panel and wall installation
MaxiRex


497 50


497 52


497 58

Pack | Cat. Nos.

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Analogue daily or weekly time switch for front panels, DIN rail mounting and surface mounting
- With manual override switch (ON/OFF/AUTOMATIC OPERATION).
- Hands can be moved clockwise or counter-clockwise (except for MaxiRex TS), therefore, e. g. summer and winter time can be adjusted easily.
- Accessories for the assembly do not belong to the delivery range, but have to be ordered separately.

MaxiRex

Voltage tolerance: ± 10 %
3 position changeover switch
With manual override

With 72 x 72 mm display to DIN EN 50022 part C

24 hour program
Programmable for 30 minutes minimum
at 10 minute intervals
Switching accuracy: ± 5 minutes

Pack	Cat. Nos.		
		MaxiRex T	without running reserve
1/30	**49750**		230 V 50 Hz
1/30	**49730**		120 V 60 Hz
		MaxiRex TT	without running reserve
1/30	**49751**		230 V 50 Hz
1/30	**49731**		120 V 60 Hz
		MaxiRex QT	with 100 h running reserve
1/30	**49754**		230 V 50/60 Hz
1/30	**49734**		120 V 50/60 Hz
		MaxiRex QTT	with 100 h running reserve
1/30	**49755**		230 V 50/60 Hz
1/30	**49735**		120 V 50/60 Hz
		MaxiRex TS	without running reserve
1/30	**49758**		230 V 50 Hz
1/30	**49759**		120 V 60 Hz

7 day program
Programmable for 3 hours minimum
at 1 hour intervals
Switching accuracy: ± 30 minutes

Pack	Cat. Nos.		
		MaxiRex W	without running reserve
1/30	**49752**		230 V 50 Hz
1/30	**49732**		120 V 60 Hz
		MaxiRex QW	with 100 h running reserve
1/30	**49756**		230 V 50/60 Hz
1/30	**49736**		120 V 50/60 Hz
		MaxiRex WT	without running reserve
1/30	**49753**		230 V 50 Hz
1/30	**49733**		120 V 60 Hz
		MaxiRex QWT	with 100 h running reserve
1/30	**49757**		230 V 50/60 Hz
1/30	**49737**		120 V 50/60 Hz

Accessories

5	**49832**	Clip-on support frame for fascia mounting
1	**044 09**	DIN rail ⊔ adaptor

Rex-Analogue time switches
Front panel and wall installation
MaxiRex

Technical Details

Type	T	TT	QT	QTT
No. of channels	1	2	1	2
Switching capacity for cos φ = 1 cos φ = 0,6 incand. lamp	16 A ~ 10 A ~ 1000 W			
UL/CSA	16 A 250 V ac R 8 A 250 V ac			
Contact	changeover switch SPDT			
	1	2	1	2
Running reserve	None	None	100 h	100 h
Min. switch time	30 min	30/45 min	30 min	30/45 min
Interval	10 min	10/15 min	10 min	10/15 min
IP rating	IP 30			
Operating temp.	0°C ... + 55°C			

Type	TS
Switching capacity for cos φ = 1 cos φ = 0,6 incand. lamp	16 A ~ 10 A ~ 1000 W
UL/CSA	16 A 250 V ac R 8 A 250 V ac
Contact	2 changeover switch SPDT
Running reserve	None
Min. switch time	30min/112,5sec
Interval	10min/37,5sec
IP rating	IP 30
Operating temp.	0°C ... + 55°C

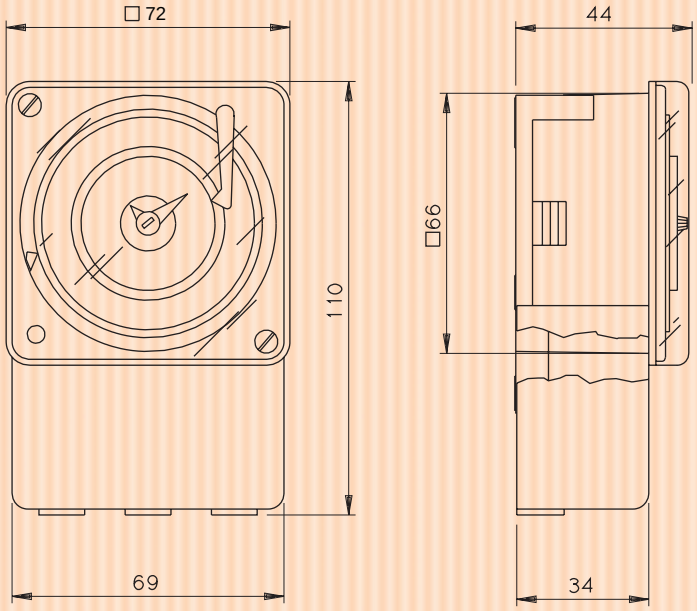
Type	W	QW	WT	QWT
No. of channels	1	2	1	2
Switching capacity for cos φ = 1 cos φ = 0,6 incand. lamp	16 A ~ 10 A ~ 1000 W			
UL/CSA	16 A 250 V ac R 8 A 250 V ac			
Contact	changeover switch SPDT			
	1	2	1	2
Running reserve	None	100 h	None	100 h
Min. switch time	3 hours		3 hours/45 min	
Interval	1 hour		1 hour/15 min	
IP rating	IP 30			
Operating temp.	0°C ... + 55°C			

other voltages on request

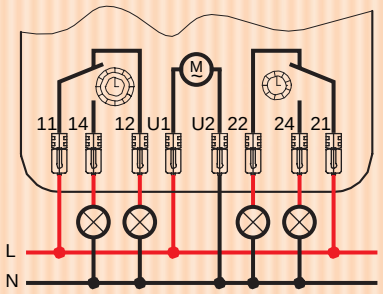
Rex-Analogue time switches
Front panel and wall installation

Technical Details

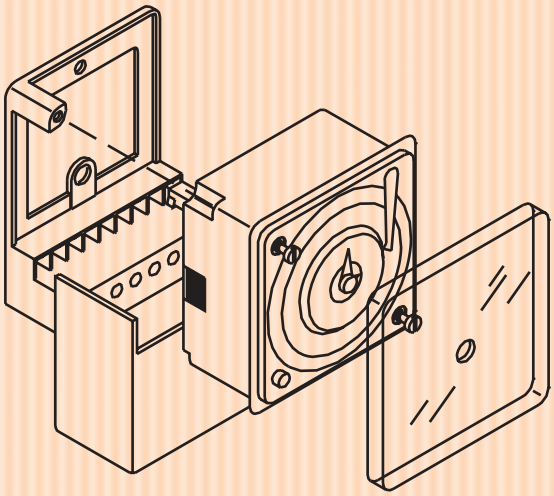
Dimensions in mm

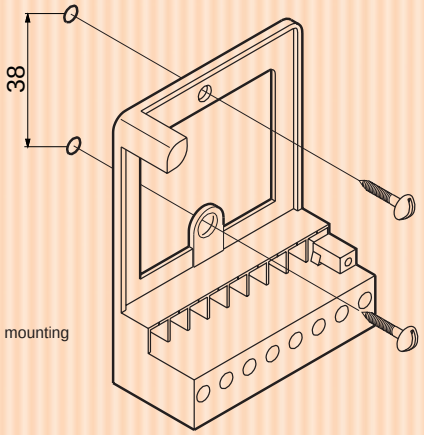


Wiring diagram

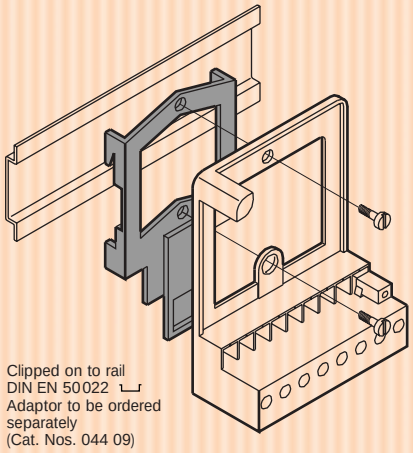


Mounting

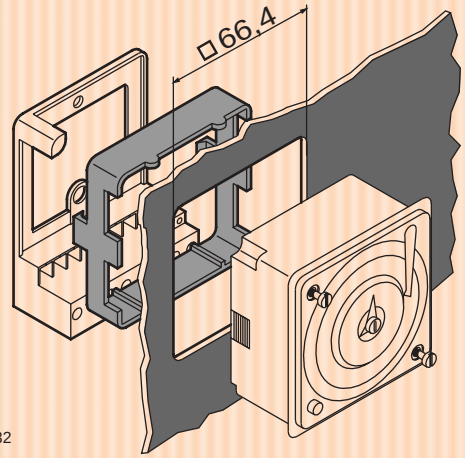




Wall mounting



Clipped on to rail
DIN EN 50022
Adaptor to be ordered
separately
(Cat. Nos. 044 09)



Fascia mounting
with support 49832

Rex-Analogue time switches
Front panel and wall installation
EconoRex

499 81

499 83

Pack	Cat. Nos.	
		According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7 Compact analogue daily or weekly time switch for front panels and surface mounting • With manually-operated switch On/Automatic Operation.
		Econo Rex Voltage tolerance: ± 10 % 3 position changeover switch With manual override With 72 x 72 mm display to DIN EN 50022 part C
		24 hour program Programmable for 15 minutes minimum at 15 minute intervals
		EconoRex BTAP without running reserve
1/30	**499 81**	230 V 50 Hz
1/30	**499 88**	230 V 60 Hz
1/30	**499 80**	120 V 60 Hz
		EconoRex BQTAP with 100 h running reserve
1/30	**499 85**	230 V 50/60 Hz
1/30	**499 79**	120 V 50/60 Hz
		7 day program Programmable for 2 hours minimum at 2 hour intervals
		EconoRex BWAP without running reserve
1/30	**499 91**	230 V 50 Hz
1/30	**912 432**	230 V 60 Hz
1/30	**499 93**	120 V 60 Hz
		EconoRex BQWAP with 100 h running reserve
1/30	**499 92**	230 V 50/60 Hz
1/30	**912 440**	120 V 50/60 Hz

Time switches with flat plugs for surface mounting (without accessories)
Module

EconoRex MT 24 h, without running reserve

		Voltage	Frequency	Dimensions (mm)
1/30	**499 83**	230 V	50 Hz	72 x 72
1/30	**499 82**	120 V	60 Hz	72 x 72

EconoRex MQT 24 h, with 100 h running reserve

1/30	**499 86**	230 V	50/60 Hz	72 x 72
1/30	**499 78**	120 V	50/60 Hz	72 x 72

EconoRex MW 7 day, without running reserve

1/30	**499 96**	230 V	50 Hz	72 x 72
1/30	**499 98**	120 V	60 Hz	72 x 72

EconoRex MQW 7 day, with 100 h running reserve

1/30	**499 94**	230 V	50/60 Hz	72 x 72
1/30	**499 95**	120 V	50/60 Hz	72 x 72

1	**495 94**	**Accessories for EconoRex M for surface mounting** wall mounting kit includes base plate with terminals and terminal cover

Rex-Analogue time switches
Front panel and wall installation
EconoRex

Technical Details

Type	BTAP	BQTAP	BWAP	BQWAP
Switching capacity for cos φ = 1 cos φ = 0,6 incand. lamp	16 A ~ 4 A ~ 1000 W	10 A ~	16 A ~	10 A ~
Contact	changeover switch SPDT			
Running reserve	none	100 h	none	100 h
Min. switch time	15 min		2 hours	
Interval	15 min		2 hours	
IP rating	IP 30			
Operating temp.	0°C ... + 55°C			

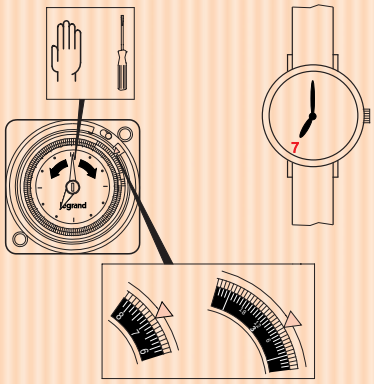
Type	MT	MQT	MW	MQW
Motor	synchronous	quartz controlled	synchronous	quartz controlled
Switching dial	24 h		7 d	
Running reserve	none	> 100 h	none	> 100 h
Switching step	10 min		1 h	
Min. switching time	20 min		2 h	
Switching accuracy	± 5 min.		± 30 min.	
Accuracy	according to frequency	± 2,5 s/d	according to frequency	± 2,5 s/d
Switching capacity Resitive, cos φ = 1 Incandescent lamps Inductive, cos φ = 0,6	 20 A~ 4 A~ 8 A~	 16 A~ 4 A~ 8 A~	 20 A~ 4 A~ 8 A~	 16 A~ 4 A~ 8 A~
Contact	1 changeover (SPDT)/20 A µ	1 changeover (SPDT)/16 A µ	1 changeover (SPDT)/20 A µ	1 changeover (SPDT)/16 A µ
Operating temperature	-10...+55 ° C			
Storage temperature	-10...+60 °C			
Protection	IP 30			
Weight	ca. 100 g			

other voltages on request

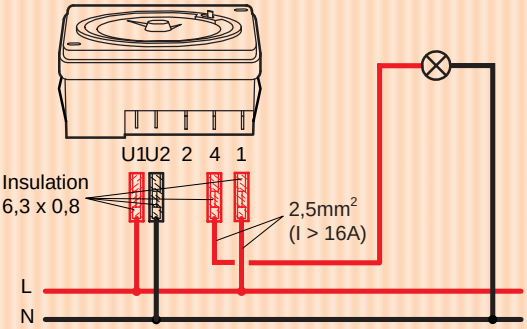
Rex-Analogue time switches
Front panel and wall installation

Technical Details

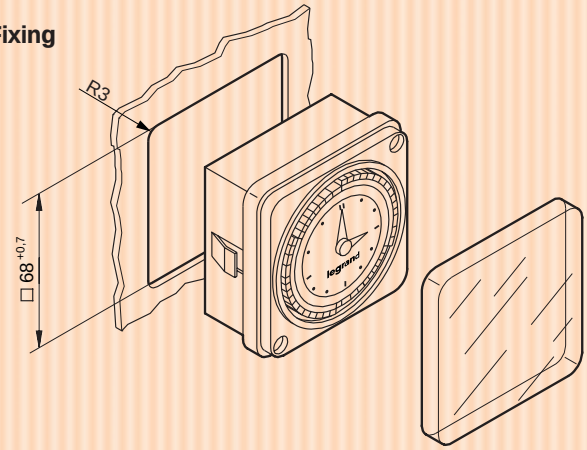
EconoRex M
Setting of time

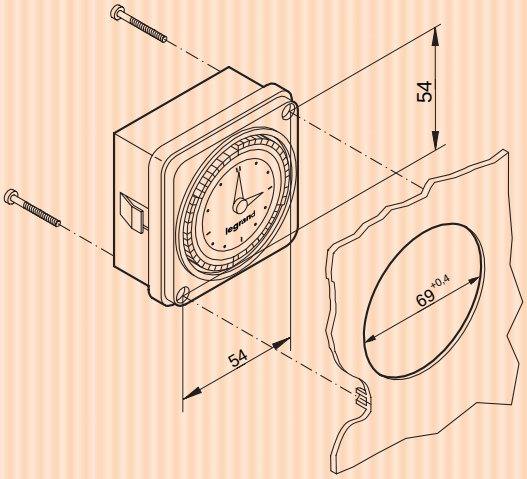


Wiring diagram

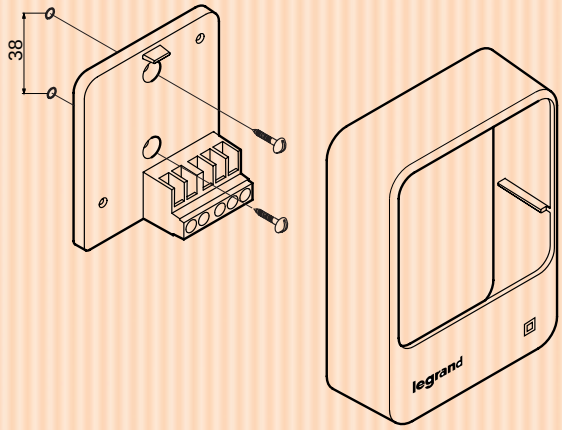


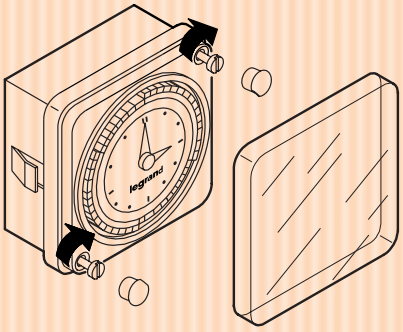
Fixing



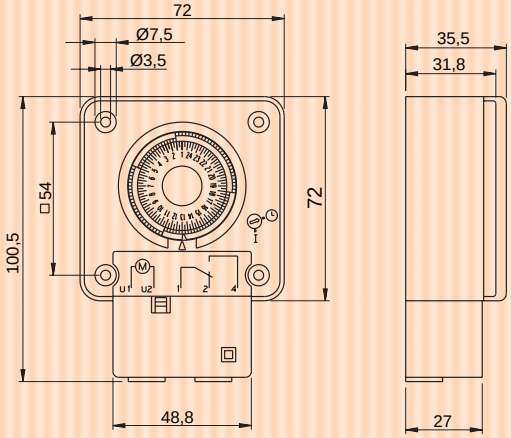


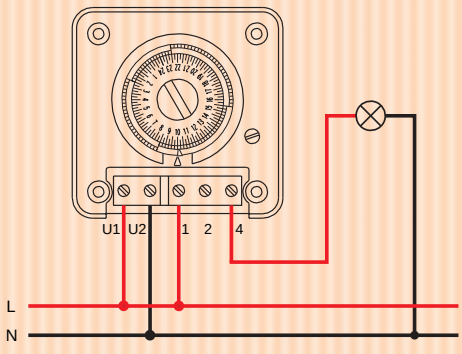
EconoRex M AP





EconoRex B AP





The Maxi Rex will never let you down

Humid rooms; outdoor applications –
You can always rely on the new analogue daily and weekly time switch

Using the water resistant plastic housing. Designed to withstand extreme environmental conditions.

Weatherproof
- Due to the protective housing.

Robust…
- Corrosion resistant by means of the sealed plastic housing.

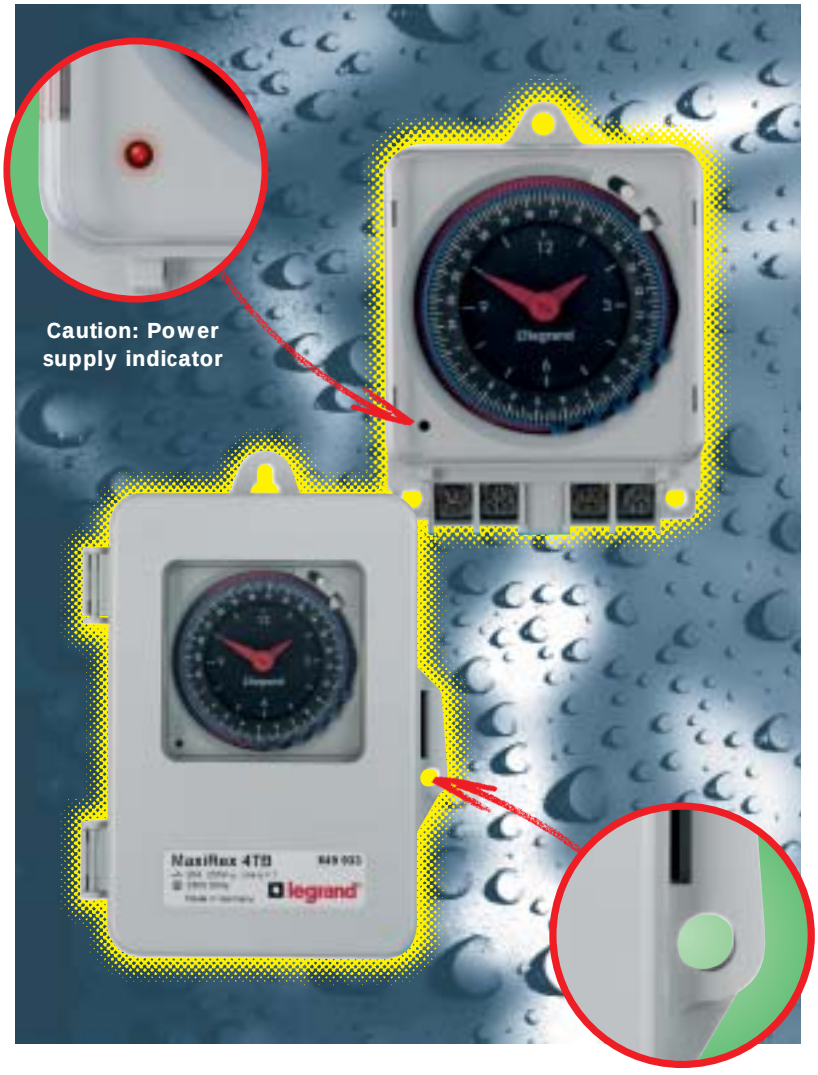
Multipurpose use
- for all optional control and switch appliances such as motors, lighting, watering; also usable in greenhouses.

Strong load capacity
- With 20 A switching capacity fit for large loads.

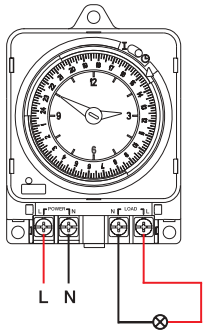
Safe is safe
- 500 h working reserve possible.

Easy installation
- 4 terminals for easy wiring (2 for power supply; 2 for load), optional 5 terminal version available (2 for power supply; 3 for potential free changeover contact).

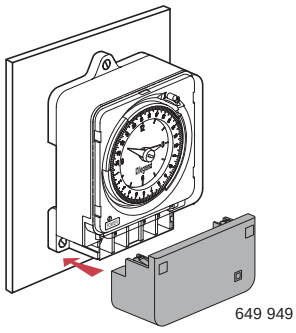
Universal installation
- For wall mounting, for DIN rail mounting and for installation in plastic box.
- Available for 4 terminal and 5 terminal version.



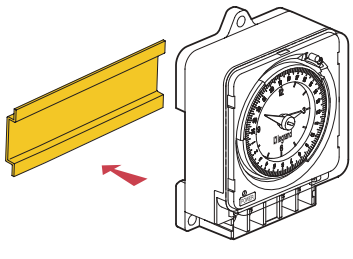
Safe: Box with lock up feature



Easy installation



Wall mounting



DIN rail mounting

Rex time switches

Analogue for DIN rail mounting and wall mounting MaxiRex

649 933

649 927

Pack Cat. Nos.

According to UL 9/7, IEC 60730-1, EN 60730-1, VDE 0631 part 1, IEC 60730-2-7, EN 60730-2-7, VDE 0631 part 2-7. Robust analogue daily and weekly time switch for DIN-Rail mounting, wall mounting and for installation in plastic box (4 terminal version)
- with manual switch (on/Automatic)
- hands can be moved clockwise and counter-clockwise

MaxiRex with 4 terminals (incl. plastic box)

MaxiRex 4TB daily, without working reserve

Pack	Cat. Nos.	Voltage	Frequency
1/10	**649 917**	230 V	50 Hz
1/10	**649 933**	230 V	60 Hz
1/10	**649 932**	120 V	60 Hz

MaxiRex 4QTB daily, with 500 h working reserve

1/10	**649 914**	230 V	50-60 Hz
1/10	**649 913**	120 V	50-60 Hz

MaxiRex 4QWB weekly, with 500 h working reserve

1/10	**649 935**	120 V	50-60 Hz

MaxiRex with 4 terminals (without plastic box)

MaxiRex 4T daily, without working reserve

1/30	**649 918**	230 V	50 Hz
1/30	**649 934**	230 V	60 Hz
1/30	**649 920**	120 V	60 Hz

MaxiRex 4QT daily, with 500 h working reserve

1/30	**649 915**	230 V	50-60 Hz
1/30	**649 919**	120 V	50-60 Hz

MaxiRex with 5 terminals

MaxiRex 5T daily, without working reserve

1/30	**649 927**	230 V	50 Hz
1/30	**649 930**	230 V	60 Hz
1/30	**649 926**	120 V	50 Hz
1/30	**649 929**	120 V	60 Hz

MaxiRex 5QT daily, with 500 h working reserve

1/30	**649 924**	230 V	50-60 Hz
1/30	**649 923**	120 V	50-60 Hz

MaxiRex 5QW weekly, with 500 h working reserve

1/30	**649 939**	230 V	50-60 Hz
1/30	**649 938**	120 V	50-60 Hz

Accessories

1	**649 948**	Plastic box
1	**649 949**	Terminal cover for MaxiRex 4 and 5

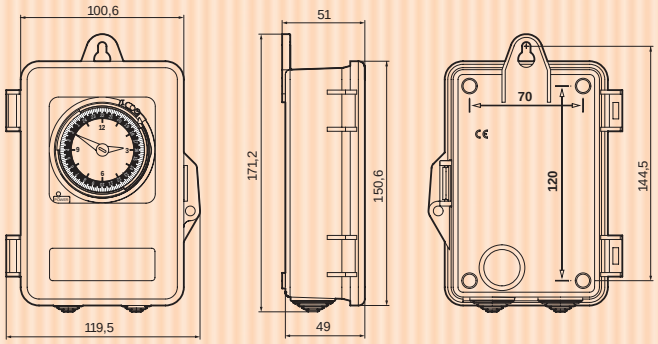
Rex time switches

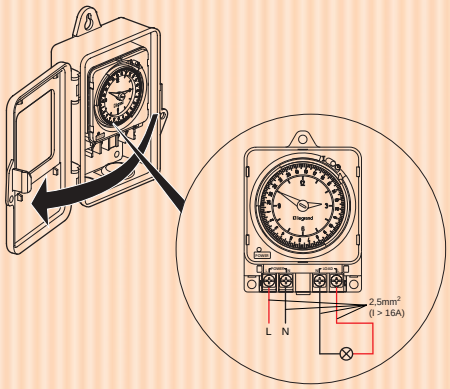
Analogue for DIN rail mounting and wall mounting MaxiRex

Technical Details

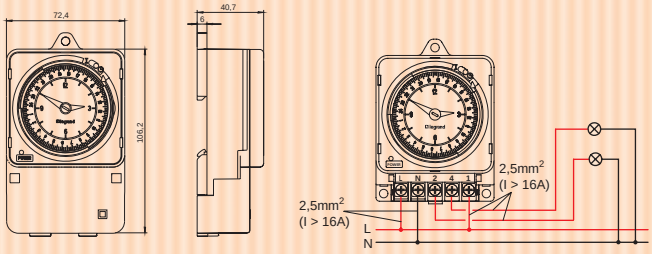
Type	MaxiRex4	MaxiRex5
No. of channels	1	1
Switching capacity Cos φ = 1 incandescent ind. Cos φ = 0,6	 20 A~ 4 A~ 10 A~	 20 A~ 4 A~ 10 A~
Minimum setting unit	10 min for daily 1 h for weekly	10 min for daily 1 h for weekly
Minimum setting intervall	20 min for daily 2 h for weekly	20 min for daily 2 h for weekly
Operating temperature	(-10°)(+50°)	(-10°)(+50°)
Protection modus	IP 53 (with plastic box)	IP 30

Dimensions in mm





Wiring diagram



other voltages on request

Rex-Digital time switches
Front panel and wall installation
Rex2000

496 05

Pack | Cat. Nos.

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Digital daily or weekly time switch for front panel installation, surface mounting as well as DIN rail mounting. FACE-The Rex2000 operating concept also for front panel build-in time switch

Rex2000 d72/1
daily time switch, 1 channel

Pack	Cat. Nos.	Voltage	Frequency
1/30	**496 02**	230 V	50/60 Hz
1/30	**496 01**	120 V	50/60 Hz
1/30	**496 00**	24 V	50/60 Hz/AC/DC

Rex2000 w72/1
weekly time switch, 1 channel

Pack	Cat. Nos.	Voltage	Frequency
1/30	**496 05**	230 V	50/60 Hz
1/30	**496 04**	120 V	50/60 Hz
1/30	**496 03**	24 V	50/60 Hz/AC/DC

Rex 2000 w72/2
weekly time switch, 2 channel

Pack	Cat. Nos.	Voltage	Frequency
1/30	**496 11**	230 V	50/60 Hz
1/30	**496 10**	120 V	50/60 Hz
1/30	**496 09**	24 V	50/60 Hz/AC/DC

Rex2000 w72/1sn
weekly time switch with control input + delay time,1 channel

Pack	Cat. Nos.	Voltage	Frequency
1/30	**496 08**	230 V	50/60 Hz
1/30	**496 07**	120 V	50/60 Hz
1/30	**496 06**	24 V	50/60 Hz/AC/DC

Accessories

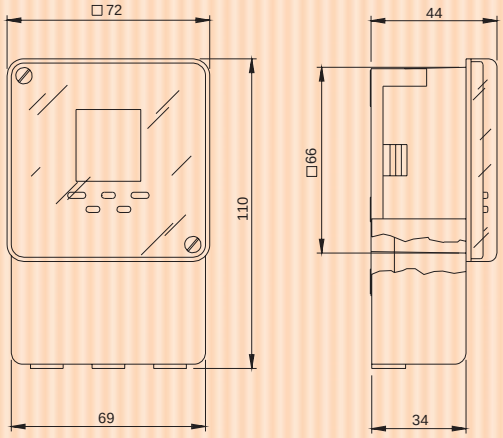
Pack	Cat. Nos.	
5	**498 32**	Clip-on support frame for D1/D2
1	**044 09**	DIN rail ⊔ adaptor

Rex-Digital time switches
Front panel and wall installation
Rex2000

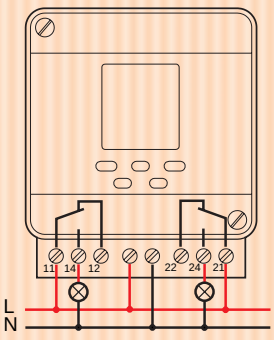
Technical Details

Type	d72/1	w72/1	w72/2	W72/1sn
Channel	1	1	2	1
Running reserve	10 years			
Switching step	1 min.			
Min. switching time	1 min.			
Accuracy	± 1 s/d			
Switching capacity Resitive, cos φ = 1 Incandescent lamps Inductive, cos φ = 0,6	16 A~ 5 A~ 10 A~			
Contact	1 changeover (SPDT) /16 A			
Max. programs per day (ON/OFF)	20 per day	8 per day	4 per day/ channel	8 per day
Operating temperature	– 20...+55 °C			
Protection	IP 20			
Weight	173 g	178 g	204 g	182 g

Dimensions in mm



Wiring diagram



other voltages on request

Rex2000 module
Time Switch modules

945 902

403 642

Pack Cat. Nos. designed to be integrated into an existing controller

offering the new programming concept FACE
- same concept for all models.
- easy, simple and quick programming by intuitive self-steering concept.
- actual time, day of the week and corresponding program always at one glance.

eternal memory thanks to the EEPROM memory
automatic change from summer- to wintertime (daylight savings)

Technical Details:	
Power supply:	5V DC ±10%
Output: channel 1/2	30 V at the max./ 30 mA at the max.
Running reserve – Actual time	either with super cap or lithium battery
– memory program	EEPROM (non-losing storage)
Power consumption…	approx. 3 mA
Working temperature	–20°C ... +55°C

Rex2000-modules

1	**945 902**	1 channel, 7 day, 5 VDC – 8 ON/OFF per day
1	**945 903**	2 channel, 7 day, 5 VDC – 4 ON/OFF per day and channel
1	**945 904**	1 channel 7 day radio controlled – 8 ON/OFF per day, 5 VDC
1	**945 905**	1 channel 7 day with control input and delay time – 8 ON/OFF per day, 5 VDC

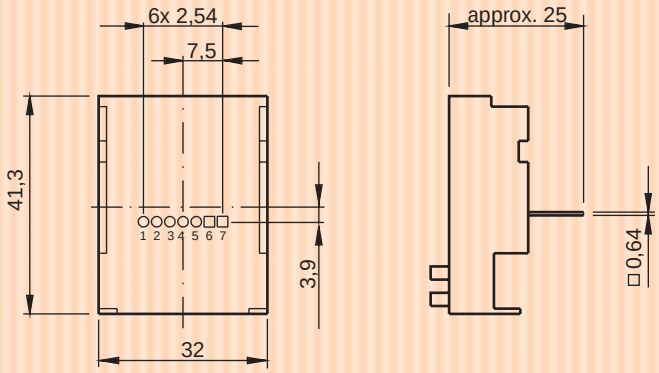
Accessory

1	**403 642**	frame, will fit to all models

Rex2000 module
Time Switch modules

Technical Details

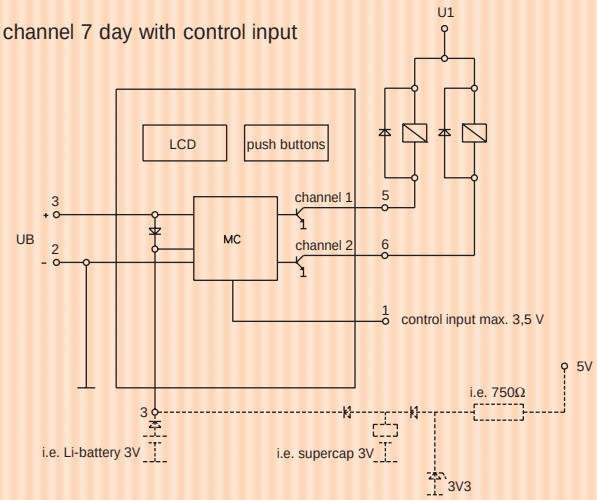
Dimensions in mm



Wiring diagram

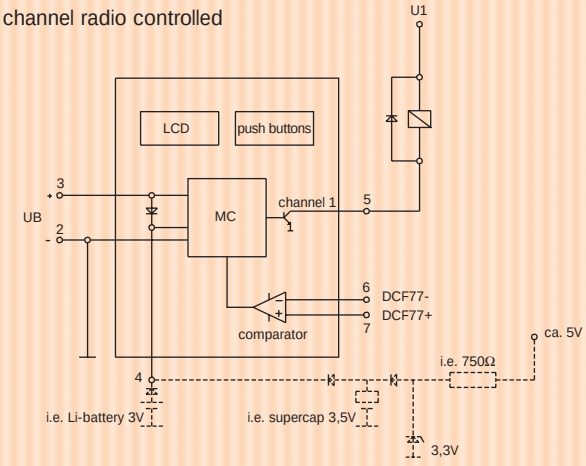
1 and 2 channel 7 day

1 channel 7 day with control input



during powercut the powerconsumption at the input 4 (running reserve) is about 5mA

1 channel radio controlled



during an DCF 77-impulse of 100ms i.e. 200ms the input 7 must have a higher potential than input 6. In case of no impulse input 6 must be more positive than input 7. The inrush current at the compensator must be between +0,3V and +1,8V.

other voltages on request

Rex-Digital time switches

Digital for rail ⌙
MicroRex

03787

03700

Pack | Cat. Nos.

MicroRex

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Digital weekly DIN rail mounting time switch

7 day program

Programming possibilities:
Capability of 8 programs
1 program consists of 1 “on” and 1 “off” time and the allocation of any day of the week or a combination of days and the channel
(version MicroRex D22 - 2 channels)
Combination of days: Mo - Fr (1-5)
Mo - Su (1-7)
any days of the week free programmable

example:

1. Prog.	on 7:00	off 8:15	Mo - Fr (1-5) channel 1
2. Prog.	on 16:00	off 20:15	Mo - Su (1-7) channel 2
3. Prog.	on 10:00	off 16:15	Fr (5) channel 1 and 2

etc.

Additional features:
Manual advance/override (ON/OFF)
Automatic override (ON/OFF) for holidays, weekends or bank holidays up to 99 days successively

MicroRex D11
1 channel

Pack	Cat. Nos.	
1/30	**03700**	230 V 50/60 Hz

MicroRex D21
1 channel

Pack	Cat. Nos.	
1/30	**03787**	230 V 50/60 Hz
1/30	**03789**	120 V 50/60 Hz

MicroRex D22
2 channel

Pack	Cat. Nos.	
1/30	**03788**	230 V 50/60 Hz
1/30	**03790**	120 V 50/60 Hz

MicroRex D21
without function of automatic change of summer/winter time
1 channel

Pack	Cat. Nos.	
1/30	**103787**	230 V 50/60 Hz

MicroRex D22
without function of automatic change of summer/winter time
2 channel

Pack	Cat. Nos.	
1/30	**103788**	230 V 50/60 Hz

Rex-Digital time switches

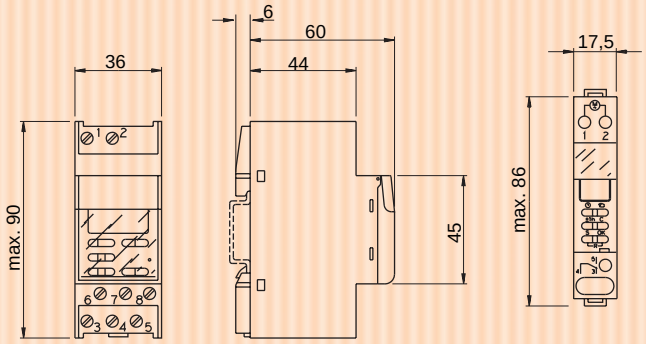
Digital for rail ⌙
MicroRex

Technical Details

Type	D21	D22	D11
Switching capacity for cos φ = 1	16 A ~	10 A ~	16 A ~
UL/CSA	10 A 250 V ac R		
Contact	1 changeover switch SPDT	2 changeover switch SPDT	1 changeover switch SPDT
Working reserve	100 hours		
Min. switching time	1 minute		
Operating temp.	– 10° C...55° C		
Accuracy	± 2,5 sec/day		

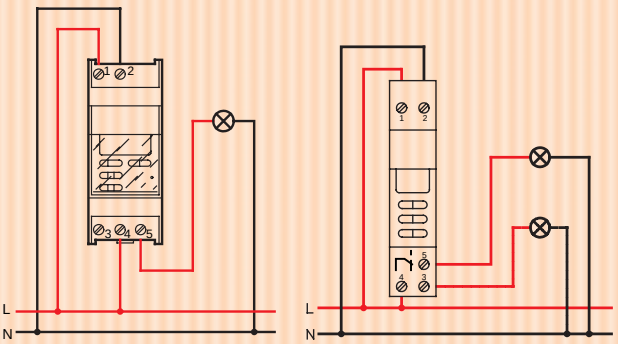
Dimensions in mm

MicroRex D21 – MicroRex D22 – MicroRex D11

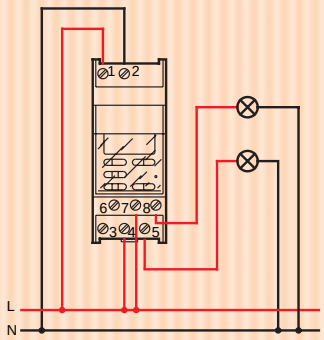


Wiring diagram

MicroRex D21 and MicroRex D11



MicroRex D22



other voltages on request

Rex-Digital time switches

Digital multi-channel weekly time switch MidiRex D64/68

037 10

Pack Cat. Nos.

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7

Digital weekly time switch with complete display of program pictures.
58 programs in all can be stored. 1 program consists of 1 "on" and 1 "off" time and the allocation of any day of the week or a combination of days and the channel-1-4 channels (MidiRex D64) respectively 1-8 channels (MidiRex D68).
For easier programming the service part can be removed.
Example for combination of days and channel:

1. progr. Mo – Su (1-7) channel 2
2. progr. Mo – We (1-3) channel 2
3. progr. Fr (5) channel 1 and 2
4. progr. Tu – Th (2-4) channel 2, 3 and 4 etc.

Housing for distribution board installation
is also suitable for front panel installation
Shortest switching time 1 second
The service part can be removed
Sealing possibility

Adjusting possibilities:
Time, switching on time, switching off time, weekday(s), any other block of days, manual switch for each channel
Assembly on DIN rail EN 50 022

MidiRex D64
weekly time switch, 4 channel

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/12	**037 10**	230 V	50/60 Hz	6
1/12	**037 11**	120 V	50/60 Hz	6
1/12	**037 15**	24 V	50/60 Hz/AC/DC	6

MidiRex D68
weekly time switch, 8 channel

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/12	**037 13**	230 V	50/60 Hz	6
1/12	**037 14**	120 V	50/60 Hz	6
1/12	**037 16**	24 V	50/60 Hz	6

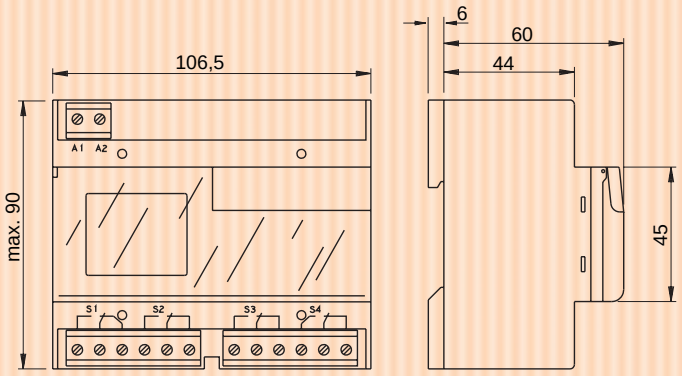
Rex-Digital time switches

Digital multi-channel weekly time switch MidiRex D64/68

Technical Details

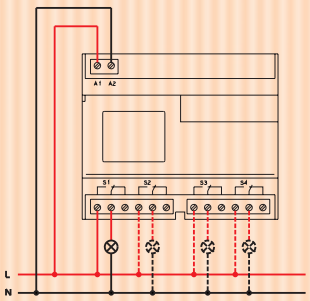
Type	D64	D68
Channel	4	8
Running reserve	> 100 h	
Switching step	1 s	
Min. switching time	1 s	
Accuracy	± 1 s/d	
Switching capacity Resitive, cos φ = 1 Incandescent lamps Inductive, cos φ = 0,6	 10 A~ 1 A~ 8 A~	 2 A~ 0,5 A~ 1 A~
Contact	4 changeover (SPDT)/10 A µ	8 open contact (SPST)/2 A µ
Max. no. of programs	58 weekly programs	
Operating temperature	-10...+55 °C	
Protection	IP 20	
Weight	approx. 360 g	

Dimensions in mm

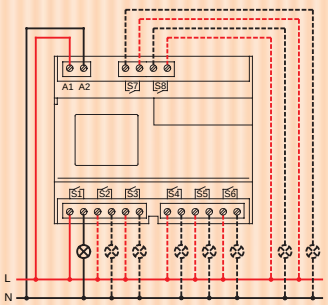


Wiring diagram

MidiRex D64



MidiRex D68



other voltages on request

Rex-Digital time switches

Digital DIN rail mounting time switches Rex2000

037 71

Pack Cat. Nos.

Rex2000
Daily/weekly time switch

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Programming concept "FACE"
Environmental friendly storage capacitor; non-polluting (free of nickel and cadmium)
Working reserve: 10 years for date and time
Lifetime protection for all programs through EEPROM storage
The programmed switching time is easily recognised from the segmented block display
- manual switching
- switching anticipation
- copy function
- automatic change of summer/winter time
- sealable cover

Rex2000 D21d
daily time switch, 1 channel

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 64**	230 V	50/60 Hz	2
1/30	**037 91**	120 V	50/60 Hz	2
1/30	**037 84**	24 V	50/60 Hz/AC/DC	2

Rex2000 D21w
weekly time switch, 1 channel

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 61**	230 V	50/60 Hz	2
1/30	**037 62**	120 V	50/60 Hz	2
1/30	**037 63**	24 V	50/60 Hz/AC/DC	2

Rex 2000 D22w
weekly time switch, 2 channel

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 71**	230 V	50/60 Hz	2
1/30	**037 72**	120 V	50/60 Hz	2
1/30	**037 73**	24 V	50/60 Hz/AC/DC	2

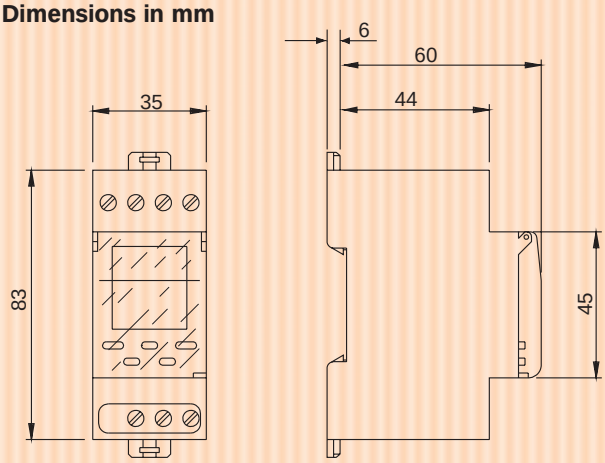
Rex-Digital time switches

Digital DIN rail mounting time switches Rex2000

Technical Details

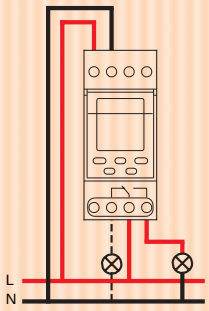
Type	D21d	D21w	D22w
Channel	1	1	2
Running reserve	10 years		
Switching step	1 min.		
Min. switching time	1 min.		
Accuracy	± 1 s/d		
Switching capacity Resitive, cos φ = 1 Incandescent lamps Inductive, cos φ = 0,6	16 A~ 5 A~ 10 A~		
Contact	1 changeover (SPDT) /16 A		
Max. programs per day (ON/OFF)	20 per day	8 per day	4 per day/ channel
Operating temperature	– 20...+55 °C		
Protection	IP 20		
Weight	113 g	114 g	133 g

Dimensions in mm

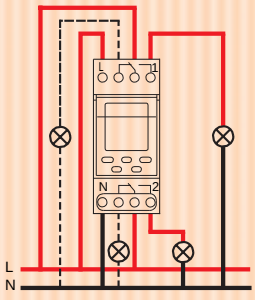


Wiring diagram

Rex2000 D21d, D21w



Rex2000 D22w



other voltages on request

Rex-Digital time switches

Digital DIN rail mounting time switches Rex2000

037 06

Pack | Cat. Nos.

Rex2000
7 day impulse time switch

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Programming concept "FACE"
Environmental friendly storage capacitor; non-polluting (free of nickel and cadmium)
Working reserve: 10 years for date and time
Lifetime protection for all programs through EEPROM storage
The programmed switching time is easily recognised from the segmented block display

- manual switching
- switching anticipation
- impulse time 1 s…23 min., 59 sec.
- copy function
- automatic change of summer/winter time
- sealable cover

Rex2000 D21i
7 day impulse time switch

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 06**	230 V	50/60 Hz	2
1/30	**037 07**	120 V	50/60 Hz	2
1/30	**037 08**	24 V	50/60 Hz/AC/DC	2

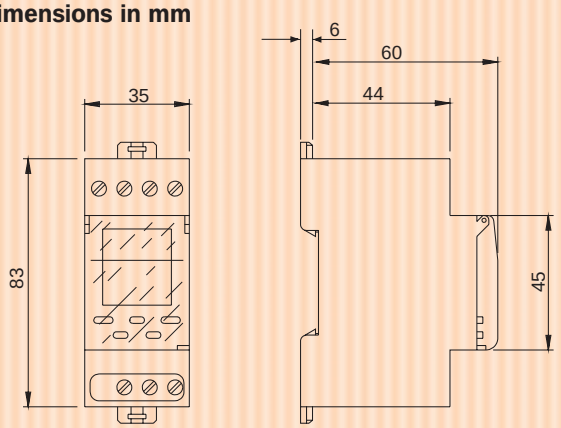
Rex-Digital time switches

Digital DIN rail mounting time switches Rex2000

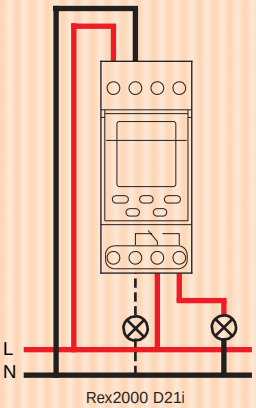
Technical Details

Type	D21i
Channel	1
Running reserve	10 years
Switching step	1 sec.
Min. switching time	1 sec.
Accuracy	± 1 s/d
Switching capacity Resitive, cos φ = 1 Incandescent lamps Inductive, cos φ = 0,6	 16 A~ 5 A~ 10 A~
Contact	1 changeover (SPDT) /16 A
Start times (ON)	16 per day
Operating temperature	– 20...+55 °C
Protection	IP 20
Weight	114 g

Dimensions in mm

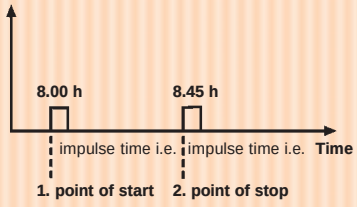


Wiring diagram



Rex2000 D21i

Function diagram



other voltages on request

Rex-Digital time switches

DIN rail mounting

Rex2000

037 81

Pack Cat. Nos.

Rex2000
Weekly time switch with control entry and delay time

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Programming concept "FACE"
Environmental friendly storage capacitor; non-polluting (free of nickel and cadmium)
Working reserve: 10 years for date and time. Lifetime protection for all programs through EEPROM storage.
The programmed switching time is easily recognised from the segmented block display
The control input "S" enables the activation of the time switch irrespective of the switch program.
By means of +/- keys the delay time can be adjusted between 1 min. and 23 h 59 min. It starts as soon as the voltage at the control entry is stopped.

- manual switching
- switching anticipation
- copy function
- automatic change of summer/winter time

Rex2000 D21sn (delay time adjustable) weekly time switch with control input + delay time,1 channel

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 81**	230 V	50/60 Hz	2
1/30	**037 82**	120 V	50/60 Hz	2
1/30	**037 83**	24 V	50/60 Hz/AC/DC	2

Rex-Digital time switches

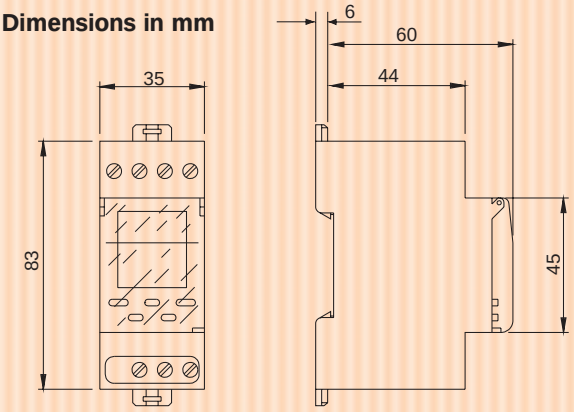
DIN rail mounting

Rex2000

Technical Details

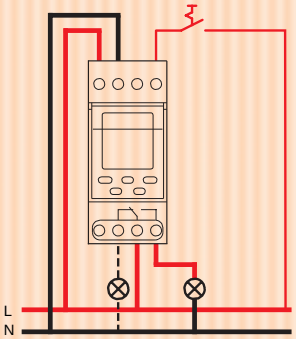
Type	D21sn
Channel	1
Running reserve	10 years
Switching step	1 min.
Min. switching time	1 min.
Accuracy	± 1 s/d
Switching capacity Resitive, cos φ = 1 Incandescent lamp Inductive, cos φ = 0,6	 16 A~ 5 A~ 10 A~
Contact	1 changeover (SPDT)/16 A
Max. programs per day (ON/OFF)	8 per day
Operating temperature	– 20...+55 °C
Protection	IP 20
Weight	118 g

Dimensions in mm



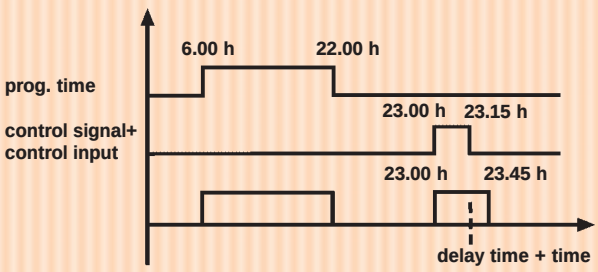
Wiring diagram

Rex2000 D21s, Rex2000 D21sn



Function diagram

Rex2000 D22sn



other voltages on request

Rex-Digital time switches

DIN-rail mounting

Rex2000

037 29

047 50

Pack | Cat. Nos.

Rex2000

One-channel radio controlled time switch

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Programming concept "FACE"
Environmental friendly storage capacitor; non-polluting (free of nickel and cadmium)
Integrated power supply for the antenna.
Working reserve: approx. 10 minutes for weekday and time.
Lifetime protection for all programs through EEPROM storage
The programmed switching time is easily recognised from the segmented block display

- manual switching
- switching anticipation
- copy function
- automatic summer/winter time switch
- sealable cover

Rex2000 D21f
weekly time switch, radio controlled, 1 channel
incl. antenna

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/10	**037 28**	230 V	50/60 Hz	2

Rex2000 D21f (without antenna)
weekly time switch, radio controlled, 1 channel

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 29**	230 V	50/60 Hz	2

Rex2000 radio antenna
DCF 77 radio antenna IP 54,
suitable for Rex2000 D21f, Rex2000 D21 Master and Rex2000 D41 Astro, LED indication,
maximum cable length: 30 m.

Pack	Cat. Nos.	Power supply by time switch	Dimensions: Height/ Diameter
1	**047 50**	3 V	46/108mm

other voltages on request

Rex-Digital time switches

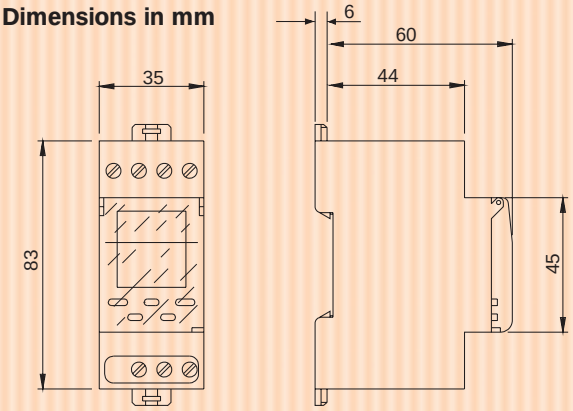
DIN-rail mounting

Rex2000

Technical Details

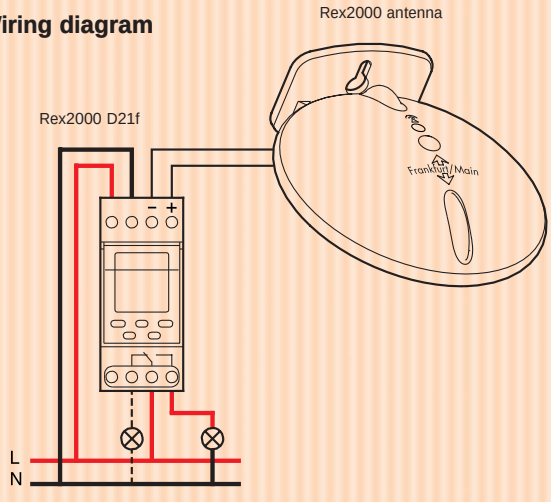
Type	D21f
Channel	1
Running reserve	approx. 10 min.
Switching step	1 min.
Min. switching time	1 min.
Accuracy	radio controlled
Switching capacity Resitive, cos φ = 1 Incandescent lamps Inductive, cos φ = 0,6	 16 A~ 5 A~ 10 A~
Contact	1 changeover (SPDT)/16 A
Max. programs per day (ON/OFF)	8 per day
Operating temperature	– 20...+55 °C
Protection	IP 20
Weight	151 g

Dimensions in mm



Reception of the DCF 77 radio signal

Wiring diagram



Rex-Digital time switches
DIN rail mounting
Rex2000

037 20

Pack Cat. Nos.

Rex2000
Astronomical light sensitive switch

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Programming concept "FACE"
Calculation of sunrise and sunset times by programming date, time and local coordinates (degree of longitude/latitude).
World-wide! Switch according to the degree of twilight without a light sensor. Integrated mains supply circuit for a Rex2000 radio controlled antenna (antenna is optional, please order separately).
To save energy a night switch off is programmable.
The programmed switching time is easily recognised from the segmented block display. The switching on and off times can be precisely adjusted by a maximum of +/-60 minutes.
The control input "S" enables the activation of the time switch irrespective of the switch program.
- manual switching (override)
- background lighting
- non-polluting lithium battery
- automatic change of summer/winter time
- reception of DCF77 radio signal possible (with integrated voltage supply)
- sealable cover

Advantage:
no cables have to be laid for twilight light collector

Rex2000 D41 Astro
1 channel

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/12	**037 20**	230 V	50/60 Hz	4
1/12	**037 22**	120 V	50/60 Hz	4
1/12	**037 24**	24 V	50/60 Hz	4

Rex2000 D42 Astro
2 channel

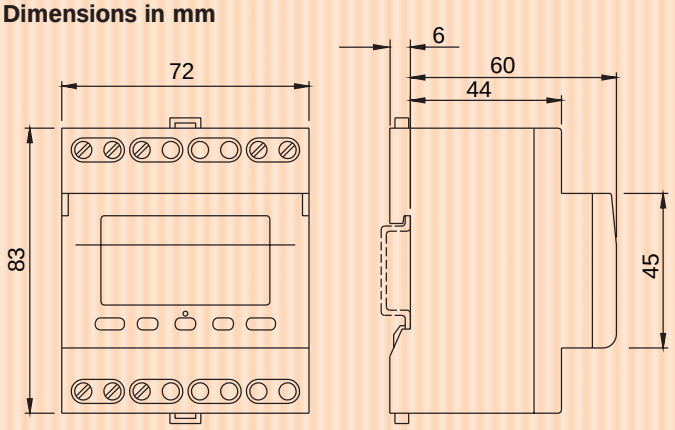
Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/12	**037 34**	230 V	50/60 Hz	4
1/12	**037 33**	120 V	50/60 Hz	4

Rex-Digital time switches
DIN rail mounting
Rex2000

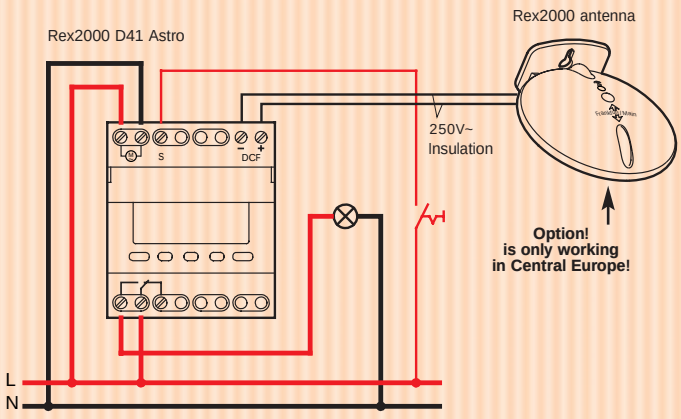
Technical Details

Type	D41 Astro	D42 Astro
Channel	1	2
Running reserve	6 years	
Switching step	1 min.	
Min. switching time	1 min.	
Accuracy	± 1 s/d	
Switching capacity Resitive, cos φ = 1 Incandescent lamp Inductive, cos φ = 0,6	16 A~ 10 A~ 4 A~	
Contact	1 changeover (SPDT)/16 A	2 changeover (SPDT)/16 A
Max. programs per day (ON/OFF) per day	1	
Operating temperature	– 20...+55 °C	
Protection	IP 20	
Weight	284 g	295 g

Dimensions in mm



Wiring diagram



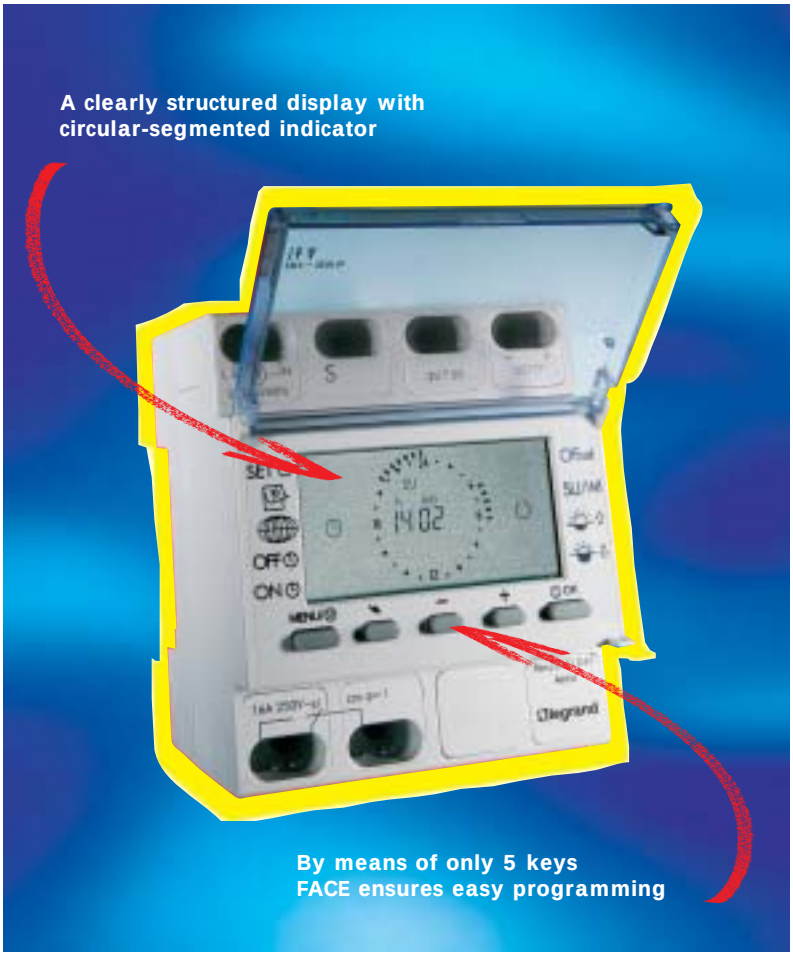
other voltages on request

AstroRex – the future classic lighting control system

The new digital AstroRex gives precise control of lighting at sunset and sunrise all in a compact 4 module form. Absolutely simple, without separate light sensor.

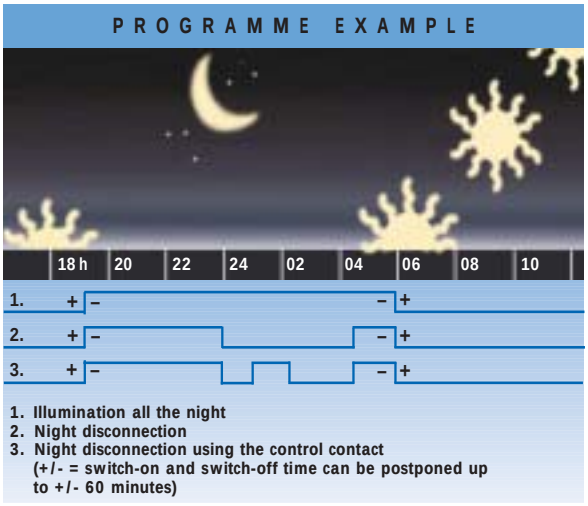
Very simple installation

The AstroRex 2000 belongs to the new generation of Legrand's time switches which offer maximum operating benefits for minimum installation work by the electrician and end-user. After the longitude, latitude, time and date have been set, the AstroRex automatically calculates sunrise and sunset times for the whole year. Worldwide. Control of the lighting is therefore precise without the need for a light sensor. This means a time saving for you and less expense e. g. drilling through the wall for external cabling is unnecessary.



Save energy by using the AstroRex

The light can be programmed to be off during the night and switched on again when it is really needed.



1. Illumination all the night
2. Night disconnection
3. Night disconnection using the control contact (+/- = switch-on and switch-off time can be postponed up to +/- 60 minutes)

Easy programming thanks to FACE

One of the characteristic features of the AstroRex is FACE – the latest programming system. Similar to the PC control sequence the FACE intuitive menu control guides you through the program step by step.

Illumination of public buildings

Shop windows

Sign boards

Rex light sensitive switch
digital for rail
MicroLux D / LuxoRex

03721

49843

Pack | Cat. Nos.

MicroLux D
Supplied with photo-electric cell housed
in Plexo weatherproof box – IP 55

Controls equipment (lighting) according
to the light level/time

Supply voltage: 230 V ± 10 % 50/60 Hz
Accuracy of time switch: ± 2,5 seconds per day
100 h working reserve

7 day program (digital)

Programming possibilities:
Capability of 8 programs
1 program consists of 1 “on” and 1 “off” time
and the allocation of any day of the week or
a combination of days
Combination of days: Mo - Fr (1-5)
Mo - Su (1-7)
any days of the week free
programmable.

Example:

1. Prog.	on 7:00	off 8:15	Mo - Fr (1-5)
2. Prog.	on 16:00	off 20:15	Mo - Su (1-7)
3. Prog.	on 10:00	off 16:15	Fr (5)

etc.

Minimum switching time: 1 minute
Light sensitivity adjustable from 5 to 2000 Lux
Additional features:
Manual advance/override
Max. distance between photo cell and switch 50 m

1/30 **03721**
MicroLux D
10 A 250 V~ cos φ = 1
1 changeover contact, with 60 seconds delay

1 **91687**
Accessory
Plexo 55 supplementary photocell for special
installations requiring more than 1 sensor

1/30 **49843**
LuxoRex
Light sensitive switch
adjustable continuously from 5 . . . 1000 Lux
switching delay of 2 min at on–and–off–action
10 A 250 V~ cos φ = 1
IP 54

Advanced design
light sensor integrated
ample space for connecting the cable

The LuxoRex can be combined with a time switch
for more economical use.

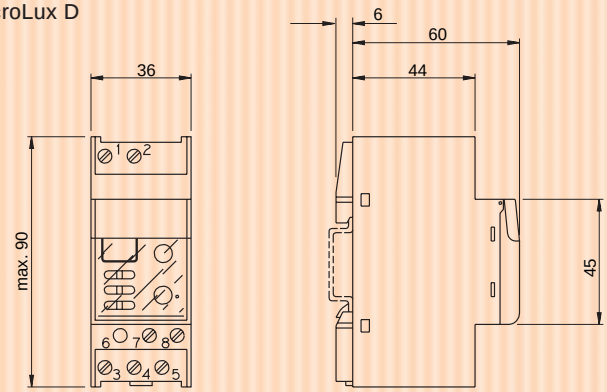
Rex light sensitive switch
digital for rail
MicroLux D / LuxoRex

Technical Details

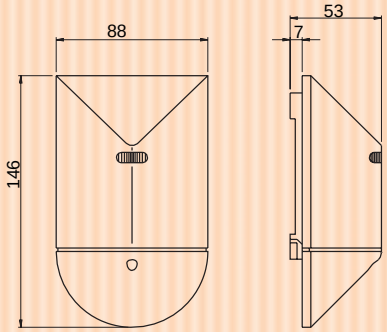
Type	MicroLux D	LuxoRex
Operating temp.	– 10°C … + 55°C	– 20°C … + 60°C
IP rating	IP 20	IP 54

Dimensions in mm

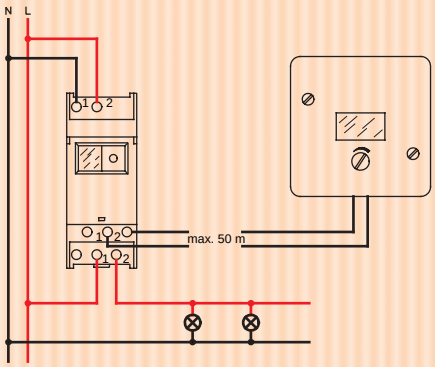
MicroLux D

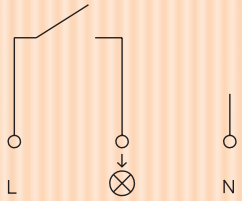


LuxoRex



Wiring diagram





other voltages on request

Mosaic™ 45

744 25

744 35

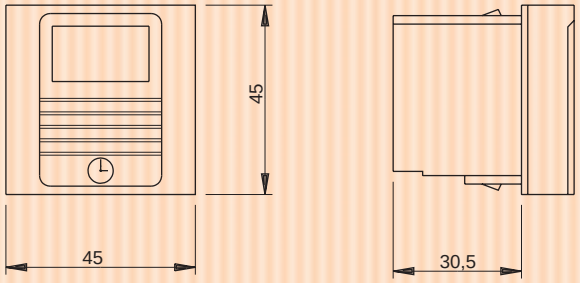
Pack	Cat. Nos.	
		Programmable time switch
1/20	**744 25**	230 V 50/60 Hz, 16 A, cos φ = 1 Voltage tolerance: ± 10 % 20 hour working reserve Programmable for 1 minute minimum Accuracy: ± 2,5 seconds per day LCD digital display **7 day program** **Programming possibilities:** Capability of 8 programs 1 program consists of 1 “on” and 1 “off” time and the allocation of any day of the week or a combination of days Combination of days: Mo - Fr (1-5) Mo - Su (1-7) any days of the week free programmable. Example: 1. Prog. on 7:00 off 8:15 Mo - Fr (1-5) 2. Prog. on 16:00 off 20:15 Mo - Su (1-7) 3. Prog. on 10:00 off 16:15 Fr (5) etc. **Additional features:** Manual advance/override (ON/OFF) Automatic override (ON/OFF) for holidays, weekends or bank holidays up to 99 days successively Autom. summer/winter time change (daylight saving)
1/20	**668 85**	120 V – 60 Hz
		Electronic room thermostat
1/20	**744 35**	Adjustment range from 5 °C to 30 °C Adjustment precision ± 0,5 °C Adjustment button with index and end of travel stopper adjustable between min. and max. Requires 230 V - 50/60 Hz supply voltage One volt free (floating) changeover contact output • LV use: - 6 A - 250 V~, resistive circuit - 2 A - 250 V~, inductive circuit • ELV use Breaking capacity: From 1 mA min. to 500 mA max. 12 to 48 V~/12 to 24 V DC Suitable for controlling heated ceilings and underfloor heating

Mosaic™ 45

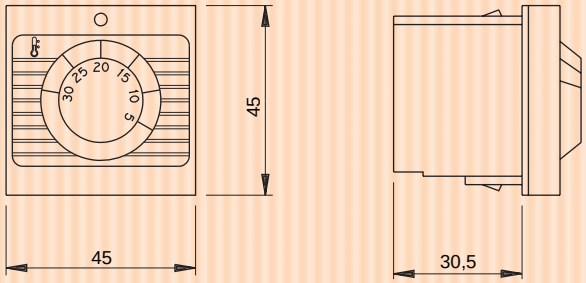
Technical Details

Dimensions in mm

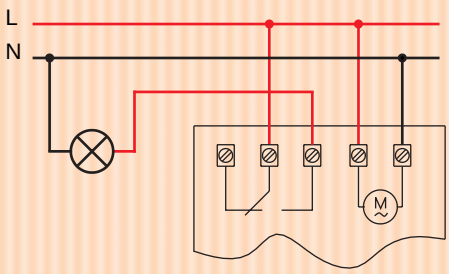
Programmable time switch

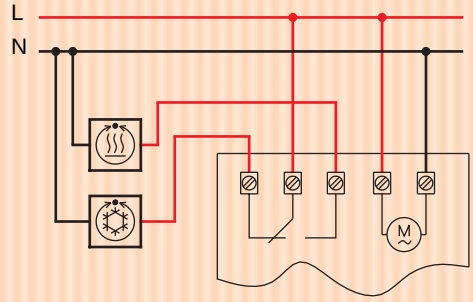


Electronic room thermostat



Wiring diagram





other voltages on request

Rex time switches
analogue for rail
MicroRex - 3 modules

037 53

Pack Cat. Nos.

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Analogue 24 hour and 7 day time switches for DIN rail and wall mounting with manual override switch. Hour and minute hands can be turned clockwise and counter-clockwise, therefore easy and quick change of summer- to wintertime and wiseversa.
• sealable cover and terminalcover

MicroRex T31
24 hour program

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 52**	230 V	50 Hz	3
1/30	**037 56**	120 V	50 Hz	3
1/30	**037 65**	120 V	60 Hz	3

MicroRex W31
7 day program

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 54**	230 V	50 Hz	3
1/30	**037 57**	120 V	50 Hz	3
1/30	**037 66**	120 V	60 Hz	3

MicroRex QT31
(with running reserve)
24 hour program, quartz controlled motor

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 53**	230 V	50/60 Hz	3
1/30	**037 51**	120 V	50/60 Hz	3

MicroRex QW31
(with running reserve)
7 day program, quartz controlled motor

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 55**	230 V	50/60 Hz	3
1/30	**037 58**	120 V	50/60 Hz	3

Accessory

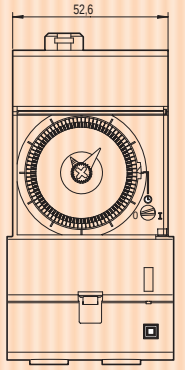
Pack	Cat. Nos.	
1	**037 49**	Kit for wallmounting including base plate and terminal cover

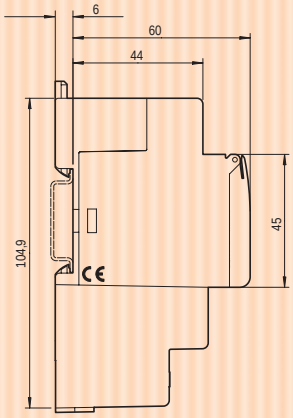
Rex time switches
analogue for rail
MicroRex - 3 modules

Technical Details

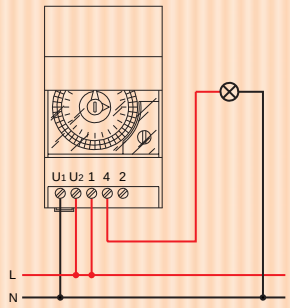
Type	T31	W31	QT31	QW31
Motor	synchronous		quartz controlled	
Switching dial	24 h	7 d	24 h	7 d
Running reserve	none		> 100 h	
Switching step	15 min.	2 h	15 min.	2 h
Min. switching time	30 min.	4 h	30 min.	4 h
Switching accuracy	±5 min.	± 30 min.	± 5 min.	± 30 min.
Accuracy	according to frequency		± 2,5 s/d	
Switching capacity Resitive, cos φ = 1 Incandescent lamps Inductive, cos φ = 0,6	16 A~ 4 A~ 10 A~			
Contact	1 changeover (SPDT)/16 A µ			
Operating temperature	-10...+55 ° C			
Storage temperature	-10...+60 ° C			
Protection	IP 20			
Weight	approx. 120 g		approx. 150 g	

Dimensions in mm

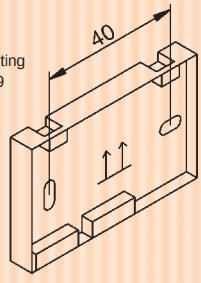




Wiring diagram



Kit for wall mounting
Cat. Nos. 037 49



other voltages on request

Rex time switches
analogue for rail
MicroRex - 1 module

037 30

Pack | Cat. Nos.

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
Analogue 24 hour and 7 day time switches for DIN rail and wall mounting with manual override switch.
- manual switching
- sealable cover and terminalcover

MicroRex S11
1 hour program, synchronous motor

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/10	**037 42**	230 V	50 Hz	1

MicroRex T11
24 hour program, synchronous motor

Pack	Cat. Nos.	Voltage	Frequenz	Number of 17,5 modules
1/100	**037 30**	230 V	50 Hz	1
1/100	**037 31**	120 V	60 Hz	1

MicroRex QT11
(with running reserve)
24 hour program, quartz controlled motor

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/100	**037 40**	230 V	50/60 Hz	1
1/100	**037 41**	120 V	50/60 Hz	1

MicroRex W11
7 day program, synchronous motor

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/10	**037 43**	230 V	50 Hz	1
1/10	**037 45**	120 V	60 Hz	1

MicroRex QW11
(with running reserve)
7 day program, quartz controlled motor

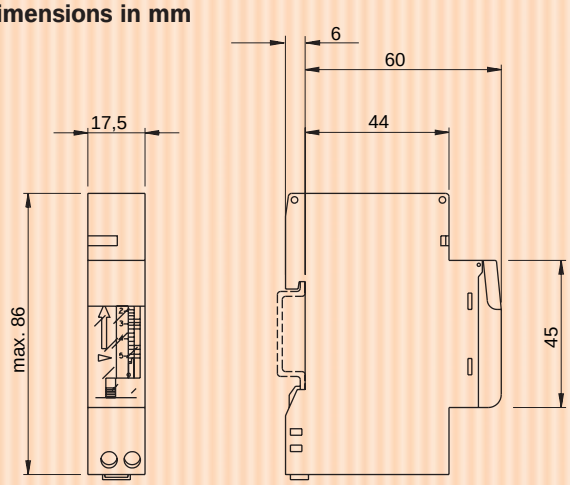
Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/10	**037 44**	230 V	50/60 Hz	1
1/10	**037 46**	120 V	50/60 Hz	1

Rex time switches
analogue for rail
MicroRex - 1 module

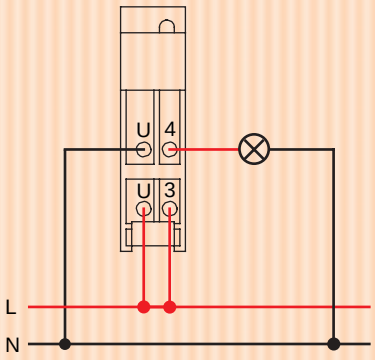
Technical Details

Type	S11	T11	W11	QT11	QW11
Motor	synchronous			quartz controlled	
Switching dial	1 h	24 h	7 d	24 h	7 d
Running reserve	none			> 100 h	
Switching step	37,5 s	15 min.	2 h	15 min.	2 h
Min. switching time	37,5 s	15 min.	2 h	15 min.	2 h
Switching accuracy	±12,5 s	± 5min.	± 30min.	± 5 min.	± 30min.
Accuracy	according to frequency			± 2,5 s/d	
Switching capacity Resitive cos φ = 1 Incandescent lamps Inductive, cos φ = 0,6	16 A~ 4 A~ 10 A~				
Contact	1 normally open contact (SPST) /16 A µ				
Operating temperature	-10...+55 ° C				
Storage temperature	-10...+60 °C				
Protection	IP 20				
Weight	approx. 63 g			approx. 67 g	

Dimensions in mm



Wiring diagram



other voltages on request

Rex defrost time switches
analogue
PolarRex / MicroRex

49926

Pack | Cat. Nos.

PolarRex analogue

According to IEC 730-1, EN 60730-1, VDE 0631 part 1, IEC 730-2-7, EN 60730-2-7, VDE 0631 part 2-7
This time switch is equipped with a daily disc and one or two continuously adjustable short-time programs which can be repeated several times within 24 hours. The duration of these programs can be adjusted by means of the white and/or black lever. The according start is "programmed" by pulling out 2 segments – which are side by side on the daily disc. Within 24 h the short-time program can be repeated 8 times.
Assembly modes:
- fixture on DIN rail EN 500 22
- installation on wall or mounting board
- installation in front panel

Time switch for short periods for control of defrosting, regularly repeated switching or pumps, feed conveyors, sprinkler systems, periodic lubrication of machines

Operation
The time switch can be set for on/off cycles between 10 and 60 min up to 8 times per 24 h. The shortest period between 2 cycles is 3 h.

Common features
Output one or two changeover contacts
Voltage free, 16 A-250 V~ cos. φ = 1

Without reserve
Voltage supply, 230 V 50Hz

Defrosting time
Contact 1 and 2 = 10 ... 60 minutes

Pack	Cat. Nos.	
1	**49920**	**PolarRex KT** 230 V/50 Hz 1 changeover contact (SPDT) for compressor/heater
1	**49924**	**PolarRex KIT** 230 V/50 Hz 1 changeover contact (SPDT) as a waver for compressor/heater, with the possibility to terminate the cycle by pressostat or thermostat
1	**49926**	**PolarRex KKT** 230 V/50 Hz like Cat. Nos. 499 20, however with additional contact for fan delay

MicroRex T31F

24 hour, synchronous motor

Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 59**	230 V	50 Hz	3

MicroRex QT31F
(with running reserve)

24 hour, quartz controlled motor

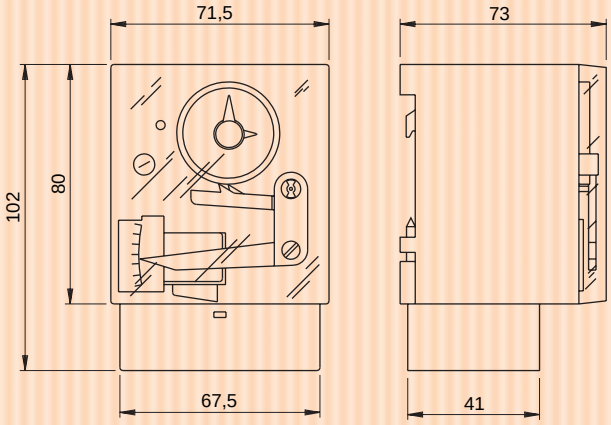
Pack	Cat. Nos.	Voltage	Frequency	Number of 17,5 modules
1/30	**037 60**	230 V	50/60 Hz	3

Rex defrost time switches
analogue
PolarRex / MicroRex

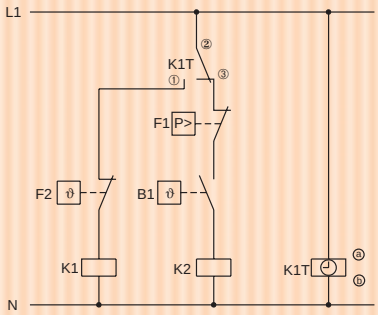
Technical Details

Type	KT	KIT	KKT
Contact	1 changeover switch	2 changeover switches	
UL/CSA	10 A 250 V ac R		
Switching capacity for cos φ = 1	16 A ~		
Operating temperature	10°C . . . + 55°C		
Weight	300 g		

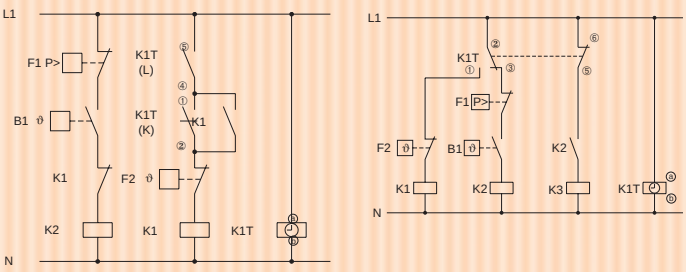
Dimensions in mm



Wiring diagram
PolarRex KT



PolarRex KIT/KKT



MicroRex T31F, QT31F
Technical Details and Dimensions see page 27

other voltages on request

Rex-hour counters
DIN rail mounting
Rex2000

046 93

Pack | Cat. Nos. | **Rex2000 Hour counters**

According to IEC 1010-1, EN 61010-1, VDE 0411 part 1
Analogue modular hour run indicator now as well in the Lexic™ design of DIN rail mounting
Easy and quick fixing on any DIN rail by using the 2 locking clamps
• sealable cover

Rex2000 HC2
Hour counters

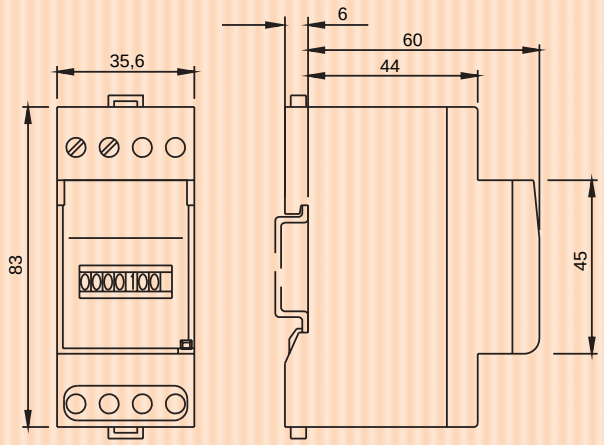
Pack	Cat. Nos.	Voltage	Frequency	number of 17,5 modules
1/30	**046 94**	230 V	50 Hz	2
1/30	**046 93**	230 V	60 Hz	2
1/30	**046 92**	120 V	60 Hz	2
1/30	**046 91**	24 V	50 Hz	2
1/30	**046 90**	12-36 V	DC	2

Rex-hour counters
DIN rail mounting
Rex2000

Technical Details

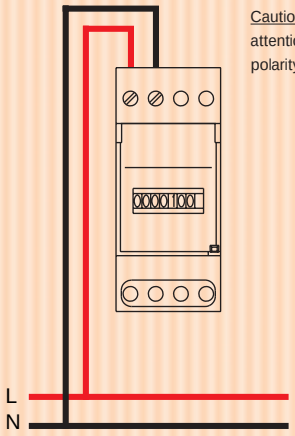
Cat. Nos.	046 90	046 91	046 92	046 93	046 94
Voltage	12-36 V	24 V	120 V	230 V	230 V
Tolerance	±10%	+10% –15%			
Frequency	DC	50 Hz	60 Hz	60 Hz	50 Hz
Motor	quartz motor	synchronous motor			
Accuracy	±2,5 s/d	according to frequency			
Counting range	1-999999,9 h	1-99999,99 h			
Protection	IP 20				
Weight	82 g				

Dimensions in mm



Wiring diagram

Rex2000 HC2



Caution:
attention to connect polarity "+/–" correct

other voltages on request

ContaRex

495 55

495 97

907 238

Pack | Cat. Nos.

ContaRex

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

Form 48 x 48 mm
AC-version: = 0... 99999,99 h
DC-version: = 0... 999999,9 h
Weight abt. 75 g

Form Ø 80 mm
protected against vibrations by a rubber buffer ring
IP 67: 0...99999,9 h
Weight abt. 145 g

Frontpanel mounting
Form 48 x 48 mm, IP 40
upgrading frame 55 x 55 included

Pack	Cat. Nos.	Voltage	Frequency
1/10	**495 52**	24 V ±10%	50 Hz
1/10	**495 53**	120 V ±10%	50 Hz
1/10	**495 54**	120 V ±10%	60 Hz
1/10	**495 55**	230 V ±10%	50 Hz
1/10	**495 57**	230 V ±10%	60 Hz
1/10	**495 59**	400 V ±10%	50 Hz
1/10	**495 60**	12...36 V ±10%	DC

DIN rail mounting
Form 48 x 48 mm, IP 40

Pack	Cat. Nos.	Voltage	Frequency
1/10	**495 62**	230 V ±10%	50 Hz

Round, Ø 80 mm, IP 67
rubber buffer

Pack	Cat. Nos.	Voltage	Frequency
1/10	**495 63**	12...36 V ±10%	DC

Frontpanel mounting
Form 36 x 24 mm, IP 40
flush mounting

Pack	Cat. Nos.	Voltage	Frequency
4/120	**907 238**	230 V ±10%	50 Hz
4/120	**907 239**	230 V ±10%	60 Hz
4/120	**907 240**	24 V ±10%	50 Hz

Accessories

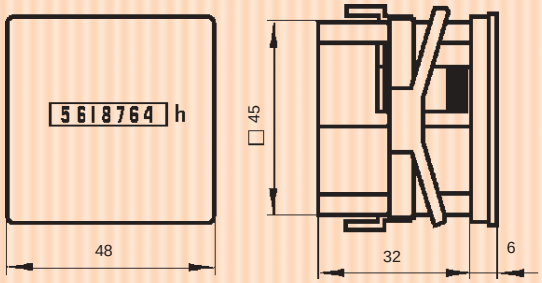
1/10	**495 98**	Frame 72 x 72 mm
1/10	**495 97**	Frame 55 x 55 mm

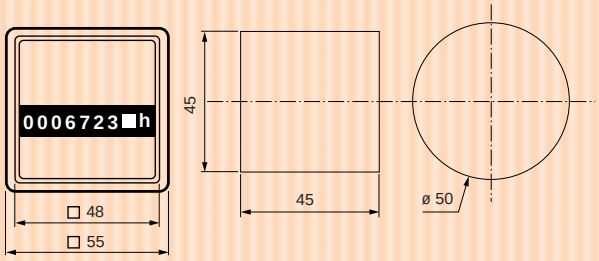
ContaRex

Technical Details

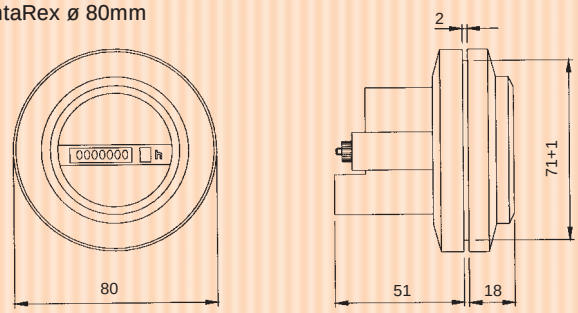
Dimensions in mm

ContaRex 48x48

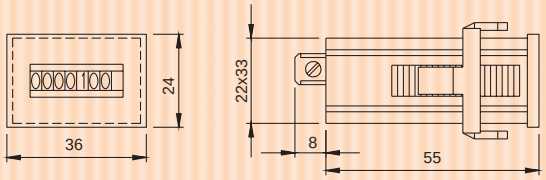




ContaRex ø 80mm



ContaRex 36x24



other voltages on request

Rex-staircase timer

047 02 047 04 047 05 047 12

Pack Cat. Nos. **Staircase lighting time switch**

According to IEC 699-1, EN 60669-1, VDE 0632 part 1
IEC 699-1-2, EN 60669-2-1, VDE 0632 part 2-1
IEC 669-2-3, EN 60699-2-3, VDE 0632 part 2-3

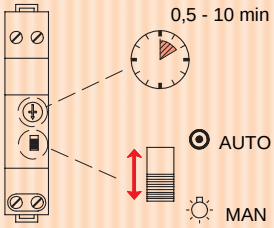
- Voltage life: 100%
- Electronic
- Exact time setting
- Extremely quiet
- Only one tool is necessary for adjustment and connection
- By means of manually-operated switch you can change over from permanent light to automatic light
- Glow lamp current 50 mA at the maximum
- Minute light can be switched on at night at any time
- Range of temperature between -10 °C and +55 °C
- Switching contact: 1 make contact µ, 16 A

Pack	Cat. Nos.		Number of 17,5 modules
1/10	**047 02**	**Rex800** Standard staircase lighting time switch 0,5-10 min. 3-/4-conductor connection, 16A/230V~, 50/60 Hz, 2000 W lamp load resistance/Halogen bulbs 230 V, 1000 VA fluorescent lamps, serial compensation 120 VA fluorescent lamps, parallel compensation 14µF at the maximum	1
1/10	**047 04**	**Rex803** Multi-tension staircase lighting time switch 0,5-12 min. for all driving voltages from 8-230 V/AC DC 3-/4-conductor connection, 16A/230V~, 50/60 Hz, 2000 W lamp load resistance/Halogen bulbs 230 V, 1000 VA fluorescent lamps, serial compensation 120 VA fluorescent lamps, parallel compensation 14µF at the maximum maximum length of trip lines: 100 m	1
1/10	**047 05**	**Rex801** Staircase lighting time switch 0,5-12 min. with long-time function 1h, 3-/4-conductor connection, 16 A/230 V~, 50/60 Hz, 2000 W lamp load resistance/Halogen bulbs 230 V, 1000 VA fluorescent lamps, serial compensation 120 VA fluorescent lamps, parallel compensation 14µF at the maximum	1
1	**047 12**	**Rex802** The staircase lighting time switch according to DIN 18015-2 provides more safety. By dimming the light to 5 times semidarkness it indicates to the user that the programmed time at the staircase lighting time switch has passed. So the user has the possibility of pressing the nearest light switch before darkness falls. Staircase lighting time switch 0,5-12 min. with pre-warning function according to DIN 18015-2, with long-time function 1h, 4-conductor connection, 16A/230V~, 50/60 Hz, 2000 W lamp load resistance /Halogen bulbs 230 V	2

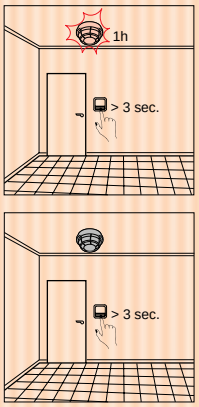
Rex-staircase timer

Technical Details

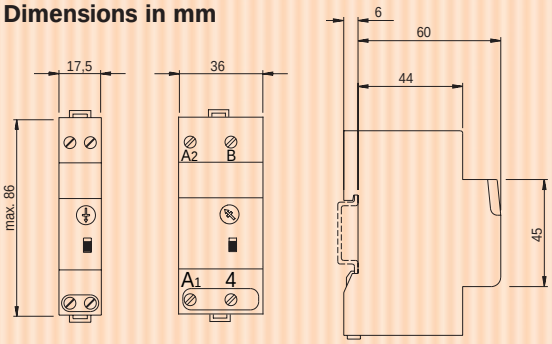
Rex800 Standard



Rex801, Rex802 **with longtime funktion 1h**

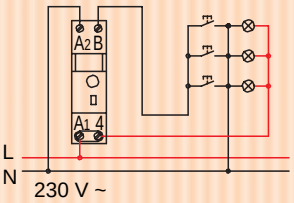


Dimensions in mm

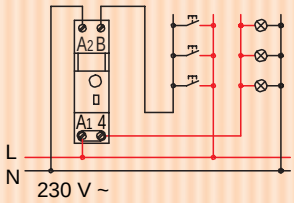


Wiring diagram

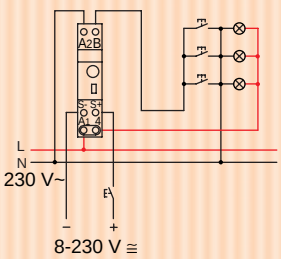
3-wire connection
Rex800, Rex801



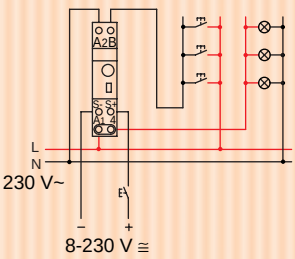
4-wire connection
Rex800, Rex801, Rex802



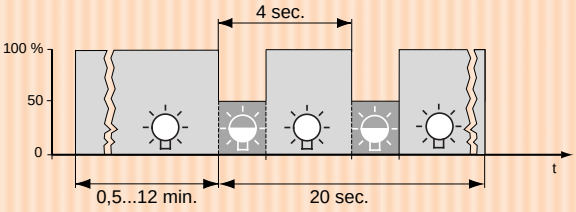
Rex803



Rex803



Rex802 **with pre-warning function**



other voltages on request

Rex-staircase timer

047 01

497 83

1037 01

Pack	Cat. Nos.		Number of 17,5 modules
		Rex804	
1/10	**047 01**	Standard staircase lighting time switch 0,5-10 min. 4-conductor connection, 16A/230V~, 50/60 Hz, 2000 W lamp load resistance/Halogen bulbs 230 V, 1000 VA fluorescent lamps, serial compensation 120 VA fluorescent lamps, parallel compensation 14µF at the maximum	1
		According to IEC 669-1, EN 60669-1, VDE 0632 part 1, IEC 669-1-2, EN 60669-2-1, VDE 0632 part 2-1, IEC 669-2-3, EN 60669-2-3, VDE 0632 part 2-3	
		Rex600 progressively variable setting of delay period, wall mounting, can be switched with illuminated push-buttons, manual switch for Automatic/ permanently ON, resettable	
1/25	**497 81**	110/230 V~	
1/25	**497 83**	230 V~	
		Rex EM *Plus* electronic staircase timer, 3- and 4-wire connection, manual switch for Automatic/ permanently ON, resettable glow lamp current max. 25 mA	
1/10	**1037 01**	230 V~	

Rex-staircase timer

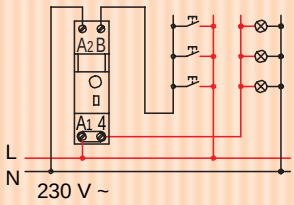
Technical Details

Type	Rex804	Rex600	Rex EM *Plus*
Delay time adjustable	electronic 0,5 … 10 min.	pneumatic 0,5 … 10 min.	electronic 0,5 … 10 min.
Resettable	at any time	after 2/3 of delay period	at any time
Contact rating			
Resistive load	16 A~	10 A~	16 A~
Incandescent lamps	8 A~	3 A~	8 A~
12 V Halogen lamps	12 A~	8 A~	12 A~
Max.	50 mA	50 mA	25 mA
Control	push buttons		
Contact rating	1 normal close/ 16 A µ	1 normal close/ 10 A µ	1 normal close/ 16 A µ
Number of 17,5 modules	1 module	wall mounting	1 module

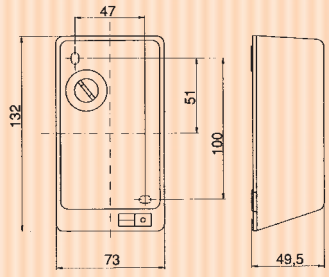
Dimensions in mm

Rex804

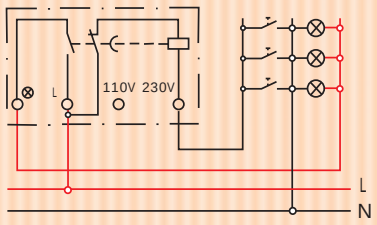
4-wire connection



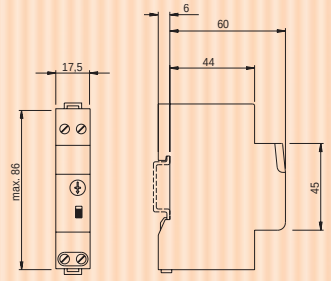
Rex600



3-wire connection

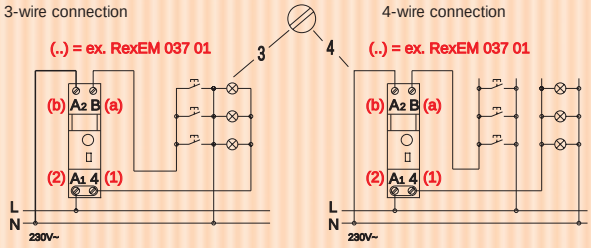


Rex EM *Plus*



3-wire connection

4-wire connection



other voltages on request

Rex analogue time relays
DIN rail mounting
Rex2000


047 42


047 44


047 45

Pack | Cat. Nos.

Application:
To control single timer functions like:
illumination, ventilation, automation, signalisation, control systems . . .
- sealable cover
- Lexic design

1/10 **047 40** **ON-delay relay**
supply voltage: 12 V...230 V AC/DC
Control input Y1
Contact


1/10 **047 41** **OFF-delay relay**
supply voltage: 12 V...230 V AC/DC
Control input Y1
Contact


1/10 **047 43** **Clock generator relay (impulse starting)**
supply voltage: 12 V...230 V AC/DC
Control input Y1
Contact


1/10 **047 45** **Impulse former relay**
supply voltage: 12 V...230 V AC/DC
Control input Y1
Contact


1/10 **047 42** **Flashing relay**
supply voltage: 12 V...230 V AC/DC
Control input Y1
Contact


1/10 **047 44** **Multifunctional relay**
supply voltage: 12 V...230 V AC/DC
additionally to the a.m. functions (except the flashing relay) the multifunctional relay offers you the following functions:

ON/OFF delay
Control input Y1
Contact


Flasher (impulse starting)
Control input Y1
Contact


Flasher (off-time starting)
Control input Y1
Contact


Passing contact
Control input Y1
Contact


Additive ON delay
Control input Y1
Contact

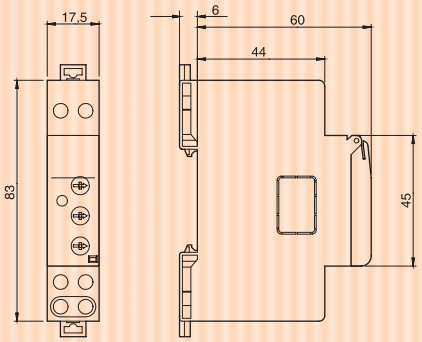

Additive fleeting ON
Control input Y1
Contact


Rex analogue time relays
DIN rail mounting
Rex2000

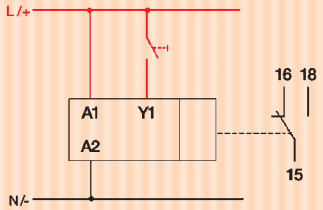
Technical Details

Supply voltage	12 V AC/DC ... 230 V AC/DC
Permissible variation	± 10% U_N
Working temperature	– 20 °C ... + 60 °C
Storage temperature	– 30 °C ...+ 70 °C
Power consumption	2 W
Relative humidity	15 ... 85%
Protection	IP 20 EN 60529, terminals domain IP 40 front domain
Protection mode	2, (with protection insulation)
Precision at constant parameters	± 0,2% of adjusted value
Setting accuracy	± 5% at 25 °C
Min. switching time control input	50 ms
Recovery time	approx. 100 ms
Contact rating	1 SPDT
Switching capacity Resitive Incandescent lamps Inductive cos. φ = 0,6	8 A 2 A 4 A
Number of cycles	10^5 switching at 2000 VA 10^7 mechanical switchings
Max. admissible length of wire	20 m

Dimensions in mm



Wiring diagram



7 domains of time:

min.		max.
0,1 s	–	1 s
1 s	–	10 s
10 s	–	100 s
1 min.	–	10 min.
10 min.	–	100 min.
1 h	–	10 h
10 h	–	100 h

The multifunctional relay covers the following function:

- ON delay
- Impulse former
- OFF delay
- Fleeting NO
- ON/OFF delay
- Flasher (impulse starting)
- Flasher (off-time starting)
- Passing contact
- Additive ON delay
- Additive fleeting NO

other voltages on request

Rex analogue time relays
fixing into flush mounting box

492 30

Pack | Cat. Nos. | **Electronic OFF delay relay**

100% ED, resettable,
to be mounted behind switch into
flush mounting box Ø 55 mm.

Application: off delay time relay
to be used for ventilation

After switching off the illumination the relay still will run the pre-programmed time of 3, 6 or 12 minutes

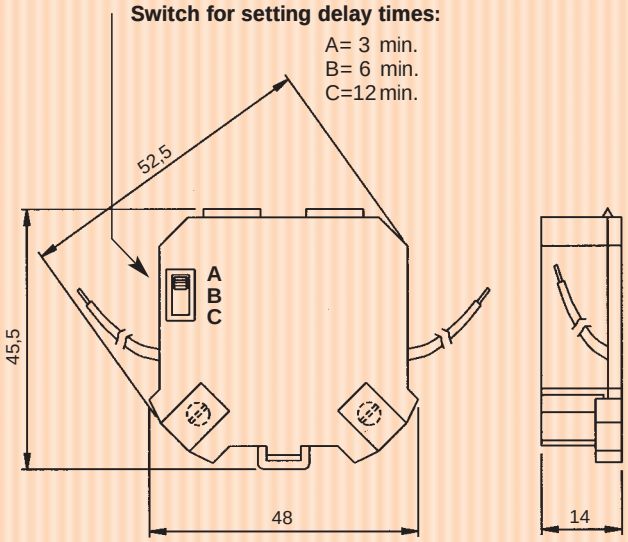
10 | **492 30** | **DuftyRex**

Rex analogue time relays
fixing into flush mounting box

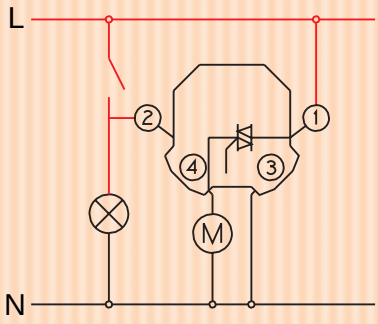
Technical Details

Type	DuftyRex
Supply power	230 V +10 -15%
Frequency	50...60 Hz
Delay time adjustable	3 - 6 - 12 min.
Contact rating	10 VA min. 200 VA max.
Function	OFF delay
To be activated by a switch	simple switch
Weight	50 g
Output contact	semiconductor (Triac)

Dimensions in mm



Wiring diagram



other voltages on request

Line disconnector
DIN rail mounting

038 36

- Disconnects the relevant circuit line, as soon as the last consumer on this line has been switched off
- The circuit line is monitored with 230V DC
- As soon as a consumer has been switched on, the line disconnector will reconnect the circuit line almost without any delay (< 0,5 sec)
- No constant load necessary.
- Manual override available with 2 settings: „circuit permanent on" or „automatic disconnection"
- A LED shows the status of the circuit line.
- Protection against polarity reversal, a flashing LED indicates that the connection of the line disconnector is not correct
- VDE approved

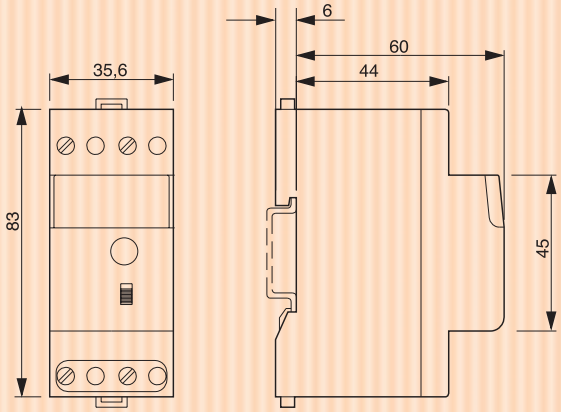
Pack	Cat. Nos.	Line disconnector			
			Voltage	Frequency	Number of 17,5 modules
1	**038 36**		230 V	50/60 Hz	2

Line disconnector
DIN rail mounting

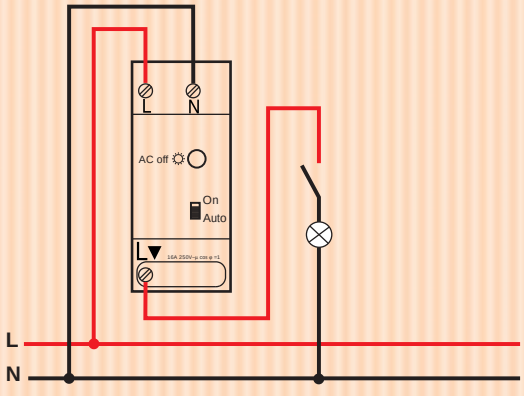
Technical Details

Supply voltage	230 V AC 50/60 Hz +/- 10%
Residual ripple	max. 60 mV
DC monitoring voltage	230 V DC
Disconnecting	1-phase
Connecting wave	8 mA DC < I < 10 mA DC
Disconnecting wave	I<= 8 mA AC
Connecting delay	< 50 ms
Disconnecting delay	ca. 3 s
Lifespan	10.000 cycles ON/OFF
Ambient temperature	– 10 °C ... + 40 °C
Power consumption	approx. 10 VA/2 W
Indicator of status of circuit line	LED
Switching capacity	16 A/250 V, cos. j = 1
Indication of disconnection	Green LED permanently ON
Switching capacity	
Resitive cos. j = 1	16 A
Incandescent lamps	4 A
Inductive cos. j = 0,6	8 A

Dimensions in mm

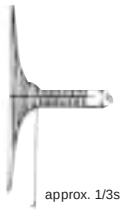
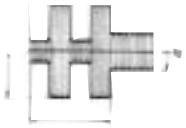
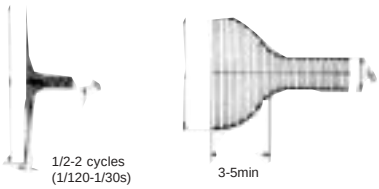
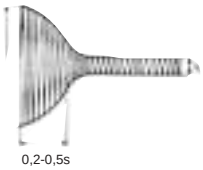


Wiring diagram



other voltages on request

Indications
for the use of time switches and staircase switches

Mode of loading:	Conduct:	Rule:
Load ohmic	Starting current is permanent current i = i0	Nominal current according to the label (IN)
Electronical ballast for: ➔ 12 V halogen lamps ➔ Fluo lamps (EVG's)	i / i0 = 2	1...2 times starting current Current is limited electronically **Without any problems.** (until IN x 0,8)
➔ Incandescent lamps ➔ Halogen lamps (230 V, 50 Hz)	 Starting current (i / i0 = 10...15)	10...15 times starting current Great load of incandescent lamps or load of halogen lamps. (see tabloid) **Use a contactor!** (from IN x 0,4)
➔ Compact fluorescent lamps with ballast ➔ Fluorescent lamps (with electrical ballast)	 Starting current (i / i0 = 16)	16 times starting current critical **Use a contactor!** (from IN x 0,03)
Fluo lamps: ➔ Inductive, duo, serial compensated	 Course of current with fluo tubes. (i / i0 = 3)	3 times starting current (see tabloid) Without any problems (until IN x 0,7)
Gas discharge lamp in shunt compensation: ➔ Fluo lamps ➔ Mercury vapour lamps ➔ Metal halogen vapour lamps ➔ Sodium vapour lamps	 Course of current on capacitor - load. (i / i0 = 20...40)	20...40 times starting current The shunt compensation is very problematic for all switching contacts. Parallel capacitors: time - switches max. 4,7 µF staircase - switches max. 7,0 µF **Use a contactor!**
Transformer: ➔ Halogen lamp transformer ➔ Separation transformer	Conduct similar to shunt compensation	20...30 times starting current max. 1 / 10 of the nominal load is permissible. **Use a contactor!**
Motor load: (with starting capacitor) ➔ Ventilator ➔ Pump ➔ Compressor	 Course of current on motor load. (i / i0 = 10...50)	10...50 times starting current Different drives, max. 1 / 10 of the nominal load is permissible. **Use a contactor!**

The mode of contact load has an essential influence on the life - cycle.
Considering time - switches and staircase switches only the starting current is critical.
Hint: A premature failure by contact abrasion (inductive load cos φ = ≤ 0,6) is not suspected because of the low number of switching times.

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