



AlphaRex³ – The Next Generation

The AlphaRex³ family of programmable digital time switches make your life easier:

- Unified, simplified, brilliantly conceived from the standardised design to the high-resolution display.
- One data key for all AlphaRex³ products for quick and easy transfer of programs to other time switches and/or for creating backup copies.
- This allows you to work efficiently, conveniently and economically.

The time switch technology of the AlphaRex³ series features first class performance that is suitable for everyday use.

Programming that is simple and precise to the second with extremely high clock precision.

Legrand continues to distinguish itself in the areas of sustainability and resource conservation.

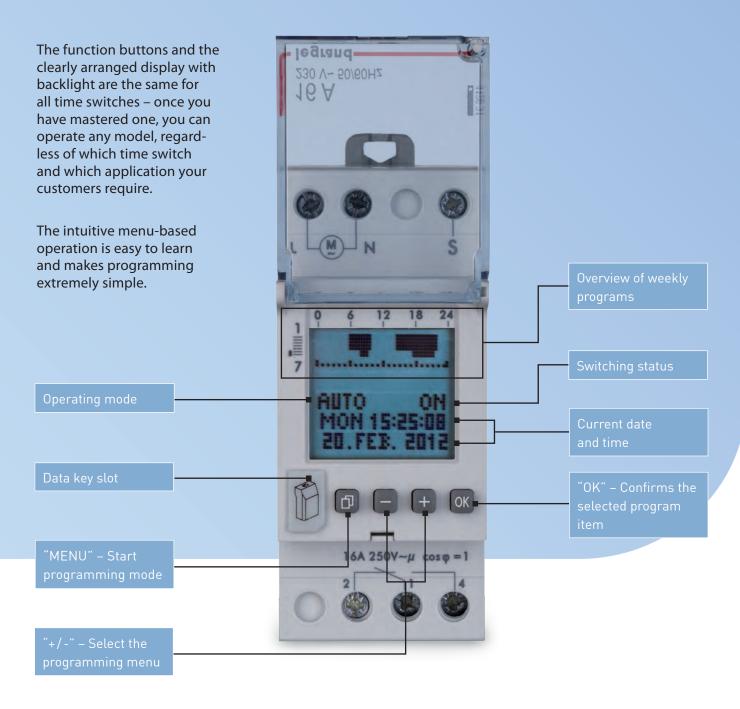








Design of the new AlphaRex³





One single data key for all AlphaRex³ programmable time switches

AlphaRex³ – The full product range

Advantages of working with the AlphaRex³ series:

- Same design as all AlphaRex³ time switches, new user-friendly button layout.
- High-resolution display with backlight.
- Standardised text-guided programming.
- Standard data key for all AlphaRex³ programmable time switches (transfer and/or backup programs quickly and easily).
- All time switches are equipped with PIN code lock and 1 h test.
- Programming with precision to the second – simple and precise programming directly on the time switch or outside the distribution board using a PC and the AlphaSoft programming software.

- Highest clock precision: +/- 0.1 s/day (with quartz or mains-synchronised in mains-synchronous operation).
- EEPROM memory for back up switching programs.
- Automatic switching for summer/winter time (daylight saving time).
- Changeover contact.
- Zero-crossing switching protects contacts, increases product life time and reduces costs and resource consumption.
- Barcode on unit.
- In accordance with DIN VDE 0631 Part 1 and Part 2-7, IEC 60730-1 and 60730-2-7, EN 60730-1 and 60730-2-7.



The battery can be removed without uninstalling the AlphaRex³ from the distribution board.



Overview of the Time Switches

Shipsof 4014 AV

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AlphaRex³ programmable weekly time switch

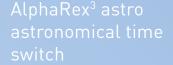
- 1 channel with 56 programs
- 2 channels with 28 programs each

AlphaRex³ DY yearly time switch

Yearly and weekly time switch with astronomical function

- 1 channel with 84 programs
- 2 channels with 84 programs each,
- comprising 28 weekly, yearly and special programs each





Switches according to astronomical time or operates as a programmable weekly time switch

- 1 channel with 56 programs
- 2 channels with 28 programs each

Technical specifications:

Text-guided and PC-based programming, switching time: 1 s, blocks can be created in programs, automatic switching for summer/winter time (daylight saving time), changeover contact, zero-crossing switching, 5-year running reserve, 2 modules width.



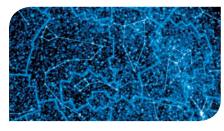
Additional functions:

Holiday program, random function (e.g. for occupancy simulation), 1 h test program for immediate switching simulation, operating hours counter, relay function, PIN code input lock, contrast adjustment.



Expert mode:

Cycle program (for cyclical systems such as animal feed systems), control input, optional mains-synchronous operation, channel-switching function 1<>2 (all 2-channel time switches).







programmable time switches with digital display





4 126 31 / 4 126 41

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 w 6 years clock working reserve	rith
		Compatible with alternative renewable energy systems such us photovoltaic panels Automatic summer/winter changeover Clock precision: ± 1 sec per day Minimum programme setting: 1 min 28 programmes	J y Number of
1	0 037 05	Power supply 120/230 V± - 50/60 Hz 1 output 16 A - 250 V± μ cos = 1 per 1 inverter contact Low consumption: 0.1 W	modules 1
		Multiple functions - daily or weekly programme with 6 years clock working reserve	
		Programme settings: on daily or weekly basis 15 languages A programme consists of a on and off time an assignement to certain days Option to suspend the programme for a speciperiod to set-up with start and date Minimum programme setting: 1 s. High precision clock: ± 0.1 sec per day Particularly suited to irregular cycles: - security installations (access point, alarms, e industrial installations (pump stations, etc.) Programmed directly on keypad, or using protransfer key Cat.No 4 128 72 Additional functions including random (irreg cycles), hour counters	d their ific tc.), ogram
1	4 126 31	Power supply 230 V± - 50/60 Hz 1 output 16 A - 250 V± 56 programmes μ cos = 1 per 1 inverter contact 84 impulses max.	Number of modules 2
1	4 126 41	2 output 16 A - 250 V± 2 x 28 programmes μ cos = 1 per 2 inverters contacts	2
1	4 128 72	Programming transfer key Can be used to store programme settings ma - Directly on a multifunction and multi-progratime switch Cat. No. 4 126 31/33/41 (loading of device) - with the programming software installed on running Windows (loading on data loader)	amme n

Pack	Cat.Nos	Programming Software
1	NEW 4 128 73	Can be used to create, save and transfer program settings for multifunction and multi-program time switches, Cat.Nos 0 047 70, 4 126 31/32/33/41 and 4 126 54 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 Kit comprising software on CD-ROM, data loader and transfer key Windows Vista compatible

		For outdoor illumina
	NEW	Astronomical For autonomous contr Automatic programmi products for the locati photoelectric cell Programmed directly o programme transfer ke High precision clock: ±
1	4 126 54	Power supply 230 V± - 1 output 16 A - 250 V± 28 programmes
1	4 126 57	2 output 16 A - 250 V± 2 x 14 programmes

or outdoor illuminations

stronomical or autonomous control of outdoor illuminations utomatic programming: simply initialise the roducts for the location with no need to install a hotoelectric cell rogrammed directly on keypad, or using rogramme transfer key Cat.No 4 128 27 igh precision clock: ± 0.2 sec per day Number of modules ower supply 230 V± - 50/60 Hz output 16 Å - 250 V± 2 3 programmes

2



Rex - digital time switches

MicroRex Plus 2



6 037 70

According to EN 60730-1 and EN 60730-2-7

Digital weekly DIN rail mounting time switch 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 selected channel (2 channel version)

Example:

1. prog.: ON 07:00h	OFF 08:15h	Mo-Fr	CH1
2. prog.: ON 16:00h	OFF 20:15h	Mo-SU	CH2
3. prog.: ON 10:00h	OFF 15:15h	Fr	CH1+2

Additional features:

• manual override (ON/OFF): permanant ON or OFF

• automatic override (ON/OFF): actual program will be inversed (ON->OFF, OFF->ON) till next programmed ON time

• running reserve of 3 years

• exchangeable battery

Pack	Cat.Nos	MicroRex D21 Plus
	6 037 70	1 channel 230 V, 50/60 Hz GB version
		MicroRex D22 Plus
	6 037 71	2 channels 230 V, 50/60 Hz GB version

Rex - digital time switches

MicroRex Plus 2

Тур	MicroRex D21 plus 2	MicroRex D22 plus 2	
No. of modules (17,5 mm)	2	2	
Channels	1	2	
Running reserve	3 ye	ears	
Switching step	11	nin	
Shortest switching step	dr.	nin	
Accuracy	+/- 1 s	ec/day	
Switching capacity Resistive 230 V \cdot \cos \Pi = 1 Incandescent lamps 230 V \cdot Inductive 230 V \cdot \cos \Pi = 0.6	5.4	An An An	
Contacts	1 SPDT	2 SPDT	
No. of programs	28	14/channel	
Operating temperature	-10	+55 °C	
Protection	IP20		
roccion	(1-	20	
■ Wiring diagram		x D22 Plus 2	

MicroRex – Analogue Time Switch Technology

Tried and true analogue time switch technology from the Rex brand: The trusted MicroRex family offers easy operation and programming by setting the analogue switching dial. Automatic and immediate setting of the time during startup as well as automatic switching for summer/winter time (daylight saving time) – not to mention the extremely low clock precision.

MicroRex T31/W31 Su/Wi

- Extremely easy plug-and-play installation
- Automatic setting of the time using fast-run mode
- Automatic switching for summer/ winter time (daylight saving time)
- LED status indicator
- Precision clockwork: +/- 0.2 s/day clock precision
- Captive switching segments

- Manual switching: ON/automatic/OFF
- Sealable cover
- Changeover contact as switch output
- Normally open contact as switch output (single-module time switches) 1)
- Removable battery 1)
- Barcode on unit
- In accordance with DIN VDE 0631 Part 1 and Part 2-7, IEC 60730-1 and 60730-2-7, EN 60730-1

1) Not for MicroRex T31/W31 Su/Wi

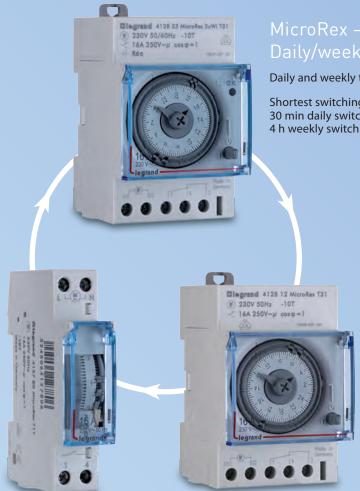


MicroRex T31/W31 Su/Wi

- Automatic setting of the time during startup
- Automatic switching for summer/winter time (daylight saving time)
- Automatic time reset after a power failure.

With the highest clock precision and a running reserve of 6 years.

Overview of the Time Switches



Daily and weekly time switch with quartz motor

Shortest switching step: 30 min daily switching dial 4 h weekly switching dial

Daily time switch: With synchronous or quartz motor Weekly time switch: With synchronous or quartz motor

Shortest switching step: 15 min daily switching dial 2 h weekly switching dial Running reserve: 100 h (quartz motor)

Daily time switch: With synchronous or quartz motor, with or without manual switch Weekly time switch: With synchronous or quartz motor

Shortest switching step: 30 min daily switching dial 4 h weekly switching dial Running reserve: 100 h (quartz motor)

Plug-and-play technology makes installation of the MicroRex Su/ Wi time switch quick and easy: just unpack it, set the switching times, connect it and you're finished! The MicroRex Su/Wi time switch now automatically sets the correct time and day in fast-run mode.



The automatic summer/winter time (daylight saving time) switching function is as reliable, convenient and practical as the startup. Using plug-and-play technology, the MicroRex time switch automatically sets itself to the current time.



As soon as the mains voltage returns after a power failure, the time switch resets itself to the correct time automatically and with quartz-controlled precision. The internal precision clockwork has a clock precision of +/- 0.2 s/day.





programmable



time switches with analogue dial





4 127 95

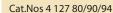
Programmed via captive segment 1-module device: min. 1 segment
3-module device: min. 2 segments
Power supply: 230 V± - 50/60 Hz
3-position override switch "ON-AUTO-OFF" on front panel
Manual changeover to summer/winter time
1 outlet 16 A - 250 V± - µ cos = 1

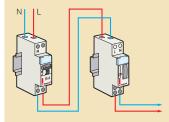
Pack	Cat.Nos	Daily programme	
		1 segment = 15 minutes Accuracy: ± 5 minutes	
		Vertical dial	
		Minimum switching time: 15 minutes N/O contact	Number of modules
1	4 127 80	Without working reserve	1
1	4 127 90	With 100 h working reserve	1
		Horizontal dial	
		Minimum switching time: 15 minutes Changeover switch	
1	4 128 12		3
	~	-	
1	4 128 13	With 100 h working reserve	3

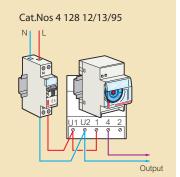
		Weekly programme	
		1 segment = 2 hours Accuracy: ± 30 minutes	
		Vertical dial	
		Minimum switching time: 2 hours N/O contact	Number of modules
1	4 127 94	With 100 h working reserve	1
		Horizontal dial	
		Minimum switching time: 4 hours Changeover switch	
1	4 127 95	With 100 h working reserve	3

programmable time switches with analogue and digital dial

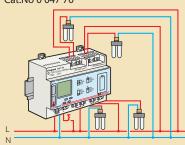
n Diagrams



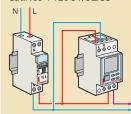




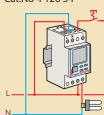
Cat.No 0 047 70



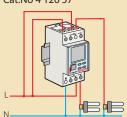
Cat.Nos 4 126 31/32/33



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

n 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 32	24 h/7 d	1 s	6 years	auto	1	56	2
4 126 33	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		utput ntact	Nb of modules	
				reserve	N/O	Chang. S.	modules
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 94	7 d	2 h	2 h	100 h	1	-	1
4 127 95	7 d	2 h	4 h	100 h	-	1	3



analogue time switches



analogue time switches



6 499 14

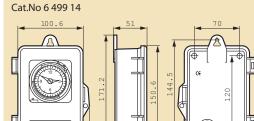
Power supply 230 V±
Override switching "ON" or "OFF" in front face
Working reserve: 500 h with quartz controlled motor
(except Cat.No 0 499 26)
1 output via changeover contact
(2 changeover contacts for Cat.No 0 499 26)

Pack	Cat.Nos	Daily programme
1	6 499 14	20 A - 250 V \pm - μ cos Ø = 1 Shortest switching time: 30 minutes (1 segment = 10 minutes) Switching accuracy: +5 minutes

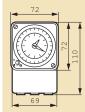
		Weekly programme
		16 A - 250 V± - μ cos ø = 1
1	0 497 56	Shortest switching time: 3 hours
		(1 segment = 1 hour)
		Switching accuracy: + 20 minutes
1	0 044 09	Adaptor for fixing time switch on rail EN 50022 4

Defrosting time switch Time switch for short periods for control of defrosting, regularly repeated switching of pumps, feed conveyors, sprinkler systems, periodic lubrication of machines $16 \text{ A} - 250 \text{ V} \pm \mu \cos \emptyset = 1$ IP 30 Daily programme The timer can repeat one or two settable short programmes within 24 hours Shortest switching sequence 2.5 hours - up to 9 times 1 switching step = 1 segment = 30 min. 50 Hz 0 499 26 Defrosting time from 1 to 60 minutes per contact

n Dimensions



Cat.No 0 497 56



n Technical Characteristics

Analogue time switches 20 A Conform to EN 50022, EN 55014-1, EN 55014-2, IEC 60730-1, IEC 60730-2-7, VDE 0631-1 and VDE 0631-2-7

For special applications with heavy loads like controlling:

- the lighting of commercial boards / sign boards water heaters
- air conditioners
- hydrochlorinators
- heating / ventilation systemsstreet lighting
- blowers
- pool heaterselectric fences
- filters, pumps and conveyers