

Rex Analogue Time Switches

Daily/weekly time switches



In accordance with VDE 0631 Part 1 and Part 2-7, IEC 60730-1 and 60730-2-7, EN 60730-1 and 60730-2-7, manual switching ON/automatic/OFF, hourly/daily/weekly switching dial with captive segments, clock precision: +/- 5 min for the daily time switch, +/- 30 min for the weekly time switch, sealable cover, IP20 degree of protection, -10°C to +55°C operating temperature, with the advantages of the Lexic system

Packing units	Cat. no.	MicroRex – plug & play – 3 modules
1	4 128 23	MicroRex T31 Su/Wi – Daily time switch - Quartz motor, 230 V, 50/60 Hz - 1 changeover contact, 250 V/50 Hz, 16 A~ cos φ = 1 - 15 min switching increments
1	4 128 28	MicroRex W31 Su/Wi – Weekly time switch - Quartz motor, 230 V, 50/60 Hz - 1 changeover contact, 250 V/50 Hz, 16 A~ cos φ = 1 - 2 h switching increments - Shortest switching step: 4 h
1	4 128 12	MicroRex T31 – Daily time switch - Synchronous motor, 230 V, 50 Hz - 1 changeover contact, 250 V/50 Hz, 16 A~ cos φ = 1 - 15 min switching increments - Shortest switching step: 30 min
1	4 128 09	MicroRex T31F – Daily time switch - Without manual switch - 1 changeover contact, 250 V/50 Hz, 16 A~ cos φ = 1 - 15 min switching increments - Shortest switching step: 30 min
1	4 128 13	MicroRex QT31 – Daily time switch - Quartz motor, 230 V, 50/60 Hz - 1 changeover contact, 250 V/50 Hz, 16 A~ cos φ = 1 - 15 min switching increments - Shortest switching step: 30 min
1	4 128 10	MicroRex QT31F – Daily time switch - Without manual switch - Quartz motor, 230 V, 50/60 Hz - 1 changeover contact, 250 V/50 Hz, 16 A~ cos φ = 1 - 15 min switching increments - Shortest switching step: 30 min
1	4 128 14	MicroRex W31 – Weekly time switch - Synchronous motor, 230 V, 50 Hz - 1 changeover contact, 250 V/50 Hz, 16 A~ cos φ = 1 - 2 h switching increments - Shortest switching step: 4 h
1	4 127 95	MicroRex QW31 – Weekly time switch - Quartz motor, 230 V, 50/60 Hz - 1 changeover contact, 250 V/50 Hz, 16 A~ cos φ = 1 - 2 h switching increments - Shortest switching step: 4 h

Packing units	Cat. no.	MicroRex – 1 module
1	4 127 80	MicroRex T11 – Daily time switch - Synchronous motor, 230 V, 50 Hz - 1 normally open contact 250 V/50 Hz, 16 A~ cos φ = 1 - 15 min switching increments - Shortest switching step: 15 min
1	4 127 90	MicroRex QT11 – Daily time switch - Quartz motor, 230 V, 50/60 Hz - 1 normally open contact 250 V/50 Hz, 16 A~ cos φ = 1 - 15 min switching increments - Shortest switching step: 15 min
1	4 127 83	MicroRex W11 – Weekly time switch - Synchronous motor, 230 V, 50 Hz - 1 normally open contact 250 V/50 Hz, 16 A~ cos φ = 1 - 2 h switching increments - Shortest switching step: 2 h
1	4 127 94	MicroRex QW11 – Weekly time switch - Quartz motor, 230 V, 50/60 Hz - 1 normally open contact 250 V/50 Hz, 16 A~ cos φ = 1 - 2 h switching increments - Shortest switching step: 2 h
1	4 128 59	Accessories Wall bracket - For surface-mounting - For 3-module MicroRex - Including terminal cover

Type	230 V ~ 50 Hz	230 V ~ 50/60 Hz	120 V ~ 60 Hz	120 V ~ 50 Hz	120 V ~ 50/60 Hz
MicroRex T31 Su/Wi	4 128 23				
MicroRex W31 Su/Wi	4 128 28				
MicroRex T31	4 128 12			4 128 16	
MicroRex QT31		4 128 13			4 128 11
MicroRex W31	4 128 14			4 128 17	
MicroRex QW31		4 127 95			4 128 18
MicroRex T11	4 127 80		4 127 81		
MicroRex QT11		4 127 90			4 127 91
MicroRex W11	4 127 83				
MicroRex QW11		4 127 94			4 127 96

Type	9 - 48 V, AC/DC
MicroRex QT11	4 128 20

Red catalog numbers: new products

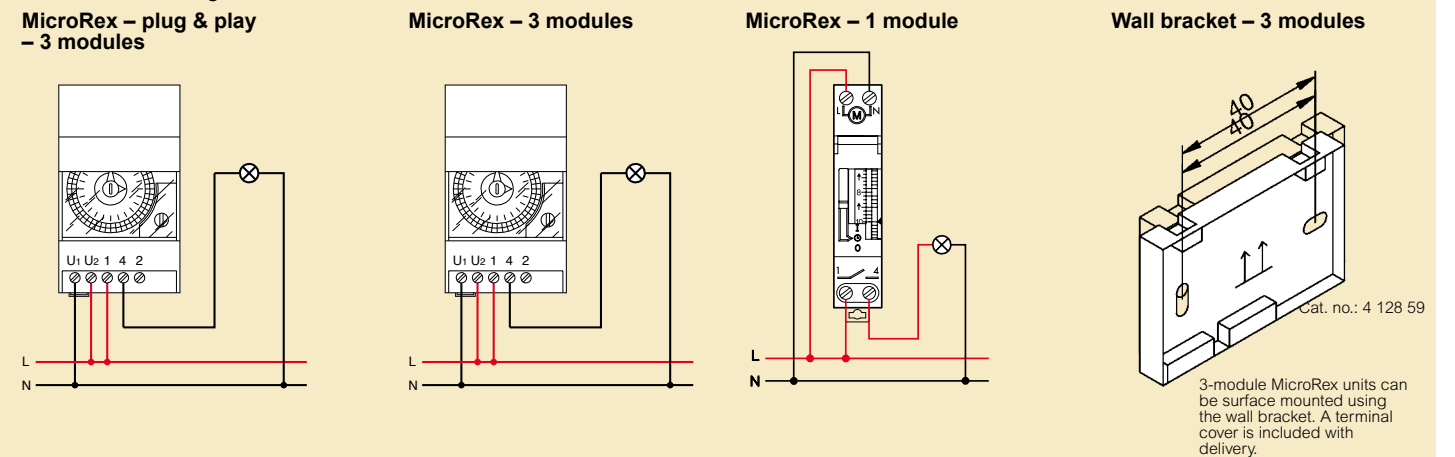
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Technical specifications

Type	MicroRex T31 Su/Wi	MicroRex W31 Su/Wi	MicroRex T31	MicroRex QT31	MicroRex W31	MicroRex QW31	MicroRex T11	MicroRex QT11	MicroRex W11	MicroRex QW11
Number of modules of 17.5 mm each	3						1			
Number of channels	1	1	1	1	1	1	1	1	1	1
Drive type	quartz	quartz	synchronous	quartz	synchronous	quartz	synchronous	quartz	synchronous	quartz
Switching dial	24 h	7 days	24 h	24 h	7 days	7 days	24 h	24 h	7 days	7 days
Running reserve	6 years	6 years	none	100 h	none	100 h	none	100 h	none	100 h
Switching increment	15 min	2 h	15 min	15 min	2 h	2 h	15 min	15 min	2 h	2 h
Shortest switching step	30 min	4 h	30 min	30 min	4 h	4 h	15 min	15 min	2 h	2 h
Switching step	+/- 5 min	+/- 30 min	+/- 5 min	+/- 5 min	+/- 30 min	+/- 30 min	+/- 5 min	+/- 5 min	+/- 30 min	+/- 30 min
Clock precision	0.2 s/day	0.2 s/day	mains synchronised	2.5 s/day	mains synchronised	2.5 s/day	mains synchronised	2.5 s/day	mains synchronised	2.5 s/day
Switching capacity	16 A~									
• Ohmic 230 V~ cos φ = 1	4 A~									
• Incandescent lamp 230 V~	12 A~									
• Inductive 230 V~ cos φ = 0.6										
Switch output	1 changeover contact	1 changeover contact	1 changeover contact	1 changeover contact	1 changeover contact	1 changeover contact	1 normally open contact	1 normally open contact	1 normally open contact	1 normally open contact
Operating temperature	-10 to +55°C									
Degree of protection	IP20									

Connection diagram



Application notes

MicroRex – Plug & play

Automatic switching for summer/winter time (daylight saving time):

The switching dates programmed into the time switch are valid for Central Europe. The switches occur at 2:00 a.m. CET or 3:00 a.m. CEST. The time switch sets itself to the correct time in fast-run mode.

Automatic setting during startup:

When the mains voltage returns after a power failure, the time switch automatically sets itself to the current time. As with the automatic BST/DST switch, this setting is performed in fast-run mode.

Manual setting:

The time switch setting should not be changed while the power supply is connected or while the time switch is in fast-run mode. This could cause an incorrect time to be displayed later. The internal clock mechanism cannot be influenced by external forces in any way. If the clock hand is incorrectly positioned, this can be corrected manually while the supply voltage is connected and after the automatic setting process is completed (LED is on or flashing).

Switching program during fast-run mode:

In fast-run mode, the set switching program is executed at a significantly increased speed.

LED indicator

MicroRex – Plug & play

LED off

No supply voltage or, if the supply voltage is connected, the time switch is in automatic setting mode. No current time.

LED on

The automatic setting process is completed and the BST/DST switch is activated. The time can be corrected manually if it is incorrect.

LED flashes

The automatic BST/DST switch is permanently deactivated, e.g. due to damage to the internal electronics caused by overvoltage. The time switch can continue to be operated with quartz-controlled precision and no running reserve. The time switch can only be corrected and set manually.

