

GRÄSSLIN



Product overview

Grässlin time switch
technology 2024



“A new idea every day”

Dieter Grässlin
Company founder and ideas man

Reliable technology meets maximum user convenience

- ▶ Grässlin develops and manufactures groundbreaking products of premium quality in the fields of time switch technology, lighting control and hour counters.
- ▶ Since our very beginnings, we have been developing solutions to make the work of our users easier and more efficient. Our aim is to deliver technologically advanced user-friendly products with customised functions for efficient building automation.
- ▶ Grässlin products are used in a wide range of applications: from the time-based control of lighting systems, pump controls, gates and shop windows to measuring the use of machines, vehicles and buildings on the basis of operation.

A strong partner to industry

- ▶ As a pioneer in time switch technology and temperature control, Grässlin maintains long-term partnerships with the world's leading manufacturers in the heating & electronics industry.
- ▶ We work in close collaboration with our industry customers to develop customer-specific OEM solutions which are designed to meet individual requirements.
- ▶ Sound market knowledge and more than 60 years of practical experience combined with in-depth technical expertise provide the basis for successful and mutually beneficial OEM partnerships.

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UNIVERSAL TIME SWITCH GRÄSSLIN Tactic 111A

17810011

The universal timers from the tactic product range offer a wide range of uses throughout the building & also outdoors. They are used in switchgear, machine controls & specific solutions such as swimming pool controls or sprinkler systems. The analogue 1-channel universal time switches of the tactic series are suitable for surface-mounting, installation & DIN-rail mounting, are easy to use & are equipped with a quartz or synchronous drive.

SPECIFICATIONS

Operating voltage	230V AC
Frequency	50Hz
Type of installation	Surface mounting
Type of contact	Changeover contact
Program	Daily program
Number of switching segments	96
Number of channels	1
Manual switch	Auto/Fix ON/Fix OFF
Power reserve	-
Drive	Synchronous motor
Switching output	Potential-free & phase-independent
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	8A
Incandescent/halogen lamp load	1400W
Shortest switching time	15 min
Programmable every	15 min
Time accuracy	Synchronised with mains
Standby output	0,9W
Housing & insulation material	High-temp, self-extinguishing thermoplastic
Protection rating	IP 20
Ambient temperature	-20°C ~ +55°C

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UNIVERSAL TIME SWITCH GRÄSSLIN Tactic 211A

27810011

The universal timers from the tactic product range offer a wide range of uses throughout the building & also outdoors. They are used in switchgear, machine controls & specific solutions such as swimming pool controls or sprinkler systems. The analogue 1-channel universal time switches of the tactic series are suitable for surface-mounting, installation & DIN-rail mounting, are easy to use & are equipped with a quartz or synchronous drive.

SPECIFICATIONS

Operating voltage	110V~230V AC
Frequency	50Hz~60Hz
Type of installation	Surface mounting
Type of contact	Changeover contact
Program	Daily program
Number of switching segments	96
Number of channels	1
Manual switch	Auto/Fix ON/Fix OFF
Power reserve	Max. 5 days
Drive	Quartz-controlled stepper motor
Switching output	Potential-free & phase-independent
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	8A
Incandescent/halogen lamp load	1400W
Shortest switching time	15 min
Programmable every	15 min
Time accuracy	$\leq \pm 1.5s/day$ (Quartz) at 25°C
Standby output	0,6W
Housing & insulation material	High-temp resistant, self-extinguishing thermoplastic
Protection rating	IP 20
Ambient temperature	-20°C ~ +55°C



UNIVERSAL TIME SWITCH GRÄSSLIN Tactic 211A

27810021

The universal timers from the tactic product range offer a wide range of uses throughout the building & also outdoors. They are used in switchgear, machine controls & specific solutions such as swimming pool controls or sprinkler systems. The analogue 1-channel universal time switches of the tactic series are suitable for surface-mounting, installation & DIN-rail mounting, are easy to use & are equipped with a quartz or synchronous drive.

SPECIFICATIONS

Operating voltage	230V AC
Frequency	50Hz~60Hz
Type of installation	Surface mounting
Type of contact	Changeover contact
Program	Daily program
Number of switching segments	96
Number of channels	1
Manual switch	Auto/Fix ON/Fix OFF
Power reserve	-
Drive	Quartz-controlled stepper motor
Switching output	Potential-free & phase-independent
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	8A
Incandescent/halogen lamp load	1400W
Shortest switching time	15 min
Programmable every	15 min
Time accuracy	$\leq \pm 1.5s/day$ (Quartz) at 25°C
Standby output	0,6W
Housing & insulation material	High-temp resistant, self-extinguishing thermoplastic
Protection rating	IP 20
Ambient temperature	-20°C ~ +55°C

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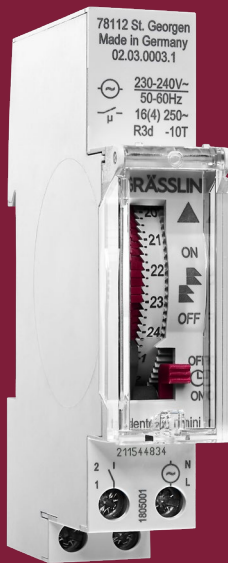
DIN RAIL TIME SWITCH GRÄSSLIN Talento 111 Mini

10600041

The analogue DIN rail time switches from the house of Grässlin allow switching commands in daily program. The products are mostly equipped with motion work, thus setting the time – especially in the weekly version – is much easier. Time & switching times can be checked at a glance, resulting in versatile application possibilities, such as passage way lighting in underpasses, showcase lighting in boutiques or control of pumps in fountains.

SPECIFICATIONS

Operating voltage	230V AC
Frequency	50Hz
Width	1 module
Type of installation	DIN-rail
Program	Daily program
Type of contact	NO contact
Number of channels	1 Channel
Power reserve	-
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	4A
Incandescent/halogen lamp load	1000W
Compact fluorescent lamps	150W
LED lamp < 2 W (typ.)	30W
LED lamp > 2 W (typ.)	300W
Shortest switching time	15 min
Programmable every	15 min
Time accuracy at 25°C	Synchronized with mains
Standby output	0.9W
Protection rating	IP 20
Ambient temperature	-25°C ~ +50°C



DIN RAIL TIME SWITCH GRÄSSLIN Talento 211 Mini 20300031

The analogue DIN rail time switches from the house of Grässlin allow switching commands in daily program. The products are mostly equipped with motion work, thus setting the time – especially in the weekly version – is much easier. Time & switching times can be checked at a glance, resulting in versatile application possibilities, such as passage way lighting in underpasses, showcase lighting in boutiques or control of pumps in fountains.

SPECIFICATIONS

Operating voltage	230V AC
Frequency	50Hz~60Hz
Width	1 module
Type of installation	DIN-rail
Program	Daily program
Type of contact	NO contact
Power reserve	3 days
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	4A
Incandescent/halogen lamp load	1000W
Compact fluorescent lamps	150W
LED lamp < 2 W (typ.)	30W
LED lamp > 2 W (typ.)	300W
Shortest switching time	15 min
Programmable every	15 min
Time accuracy at 25°C	≤ ± 1s/day (Quartz)
Standby output	0.5W
Protection rating	IP 20
Ambient temperature	-10°C ~ +50°C

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DIN RAIL TIME SWITCH GRÄSSLIN Talento Smart B10 Mini

430200051

Single mode DIN-rail timer without display. Programmable via Bluetooth App. The programs can be created with or without a date, according to need. Ability to combine & group multiple weekdays individually. Space available for date-independent & date-dependent programs up to 100 memory slots. Suited for retrofitting in closely packed DIN-rail timer cabinets

SPECIFICATIONS

Operating voltage	110V~230V AC
Frequency	50Hz~60Hz
Width	1 module
Type of installation	DIN-rail
Type of contact	Changeover contact
Power reserve	3 days
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	10A
Program	Weekly
Number of channels	1 Channel
Incandescent/halogen lamp load	2600W
Compact fluorescent lamps	Up to 322W
LED lamp < 2W (typ.)	100W
LED lamp > 2W (typ.)	360W
Shortest switching time	1 min
Time accuracy at 20°C	Typically ± 0.3 s/day (quartz)
Standby output	< 1W
Protection rating	IP 20
Protection class	II as per EN 60 730-1
Ambient temperature	-20°C ~ +55°C

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DIN RAIL TIME SWITCH GRÄSSLIN Talento Smart B15

430200011

Digital DIN-rail timer - 100 memory (ON/OFF) & 10 date-independent programmes - min switching of 1 minute. Summer/winter adjustment can be automatic, date-specific or deactivated. 12/24H setting. Integrated hours counter with maintenance mode. Manual: Auto, Fix ON/OFF, Override. NV memory for storing programmes, Power reserve, 8 years. The clock can be sealed to prevent unauthorised access. Programming is either on the clock or by App. (Android & iOS) & PC software.

SPECIFICATIONS

Operating voltage	110V~230V AC
Frequency	50Hz~60Hz
Width	2 Modules
Type of installation	DIN-rail
Type of contact	Changeover contact
Power reserve	8 years
Switching capacity at 250V AC, cos phi = 1	16A
Shortest switching time	1min/1sec pulse
Memory locations	100
Switching capacity at 250V AC, cos phi = 0.6	10A
Incandescent/halogen lamp load	2600W
Compact fluorescent lamps	1000W
LED lamp < 2W (typ.)	100W
LED lamp > 2W (typ.)	600W
Shortest switching time	1 min
Time accuracy at 20°C	Typically $\pm 0.3s/day$ (quartz)
Standby output	< 1W
Protection rating	IP 20
Ambient temperature	-20°C ~ +55°C



DIN RAIL TIME SWITCHES GRÄSSLIN Talento Smart B25

430200021

Digital DIN-rail timer with 100 memory spaces for creating a date-specific programme & 10 date-independent programmes with a minimum switching time of 1 min. Free weekday block formation. Automatic summer/winter time adjustment, date-specific or deactivated. 12/24H setting. Switching state display. Integrated hours counter with maintenance mode. Manual switch: Automatic, Fix ON/OFF, Override. White display lighting. Non-volatile memory (EEPROM) for storing programmes. Power reserve via battery of up to 8 years. Programming is performed either directly on the clock or conveniently by means of mobile devices & the corresponding Apps (Android & iOS) & PC software.

SPECIFICATIONS

Operating voltage	110V~230V AC
Frequency	50Hz~60Hz
Width	2 Modules
Type of installation	DIN-rail
Type of contact	Changeover contact
Power reserve	8 Years
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	10A
Incandescent/halogen lamp load	2600W
Energy saving lamps	1000W
LED lamps < 2W (typ.)	100W
LED lamps > 2W (typ.)	600W
Shortest switching times	1 min
Time accuracy at 25°C	Typically ± 0,3s/day (Quartz)
Standby output	< 1W
Type of protection	IP 20
Number of channels	2
Ambient temperature	-20°C ~ +55°C



DIN RAIL TIME SWITCHES GRÄSSLIN Talento Smart C25 24V

430300031

Digital DIN-rail timer with 500 memory spaces for creating 50 date-specific programmes (ON/OFF Cycle, Impulse, Random ON, Random OFF) & 50 date-independent programmes (with a minimum switching time of 1 min (ON/OFF) or 1 sec (cycle, impulse). Free weekday block formation. Automatic summer/winter time adjustment, date-specific or deactivated. 12/24H setting. Switching state display. Integrated hours counter with maintenance mode. Manual switch: Automatic, Fix ON/OFF, Override. White display lighting. Power reserve via battery of up to 8 years. The clock can be sealed & can be protected with a PIN to prevent unauthorised access. Programming is performed either directly on the clock or conveniently by means of mobile devices & the corresponding Apps (Android & iOS) & PC software.

SPECIFICATIONS

Operating voltage	12V~24V AC/DC
Frequency	50Hz~60Hz
Width	2 Modules
Type of installation	DIN-rail
Type of contact	Changeover contact/No contact
Power reserve	8 Years
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	10A
Incandescent/halogen lamp load	2600W
Energy saving lamps	1000W
LED lamps < 2W (typ.)	100W
LED lamps > 2W (typ.)	600W
Shortest switching times	1 min
Time accuracy at 25°C	Typically $\pm 0,3s/day$ (Quartz)
Standby output	< 1W
Protection class	II according to EN 60 730-1
Ambient temperature	-20°C ~ +55°C

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DIN RAIL TIME SWITCH GRÄSSLIN Talento Easy B1

36100011

Digital time switch for DIN-rails with 1-channel, daily/weekly program & 50 memory locations for creating 1 date-dependent program & 10 date-independent programs with a minimum switching time of 1 min. Free week day block formation. Summer-winter time changeover can take place automatically, on a specific date or can also be deactivated. 12/24H setting. Switching status indicator. Integrated hour counter with service mode. Manual switch: automatic mode, fixed ON/OFF, override. Green display lighting for good legibility. Non-volatile memory (EEPROM) for saving programs in the event of a power failure. Battery-based power reserve for up to 6 years. The time switch can be sealed & also PIN-protected against unwanted access. Programming is not completed directly on the time switch itself.

SPECIFICATIONS

Operating voltage	230V AC
Frequency	50Hz~60Hz
Width	2 modules
Type of installation	DIN-rail
Type of contact	NO contact
Power reserve	6 years
Number of channels	1 channel
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi 0.6	10A
Shortest switching time	1 min/1s (pulse)
Time accuracy at 20°C	Typically ± 0.5 s/day (quartz)
Standby output	6VA
Protection rating	IP 20
Ambient temperature	-10°C ~ +55°C

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DIN RAIL TIME SWITCH GRÄSSLIN talento Easy C1

36100021

Digital time switch DIN, 1-channel, Astro/daily/weekly, 50 memory locations. Min switching time of 1 min or 1 sec (cycle, pulse). Geo-database for 45 countries & 280 cities. Trigger modes for sunrise/sunset or dawn/dusk. Summer-winter time changeover is automatic, on a specific date or can also be deactivated. 12/24H setting. Manual/auto mode, fixed ON/OFF, override. Battery reserve for up to 6 years. Can be sealed & also PIN-protected against unwanted access.

SPECIFICATIONS

Operating voltage	230V AC
Frequency	50Hz~60Hz
Width	2 modules
Type of installation	DIN-rail
Type of contact	NO contact
Power reserve	6 years
Program setting	Daily/weekly/Astro
Number of channels	1 channel
Memory locations	50
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi 0.6	10A
Shortest switching time	1 min/1s (pulse)
Time accuracy at 20°C	Typically ± 0.5 s/day (quartz)
Standby output	6VA
Protection rating	IP 20
Protection class	II
Ambient temperature	-10°C ~ +55°C



UNIVERSAL TIME SWITCH GRÄSSLIN Tactic Smart A

438700021

The tactic smart provides versatile application options throughout the building & outdoors. It is used for universal switching tasks such as in switchgear, machine controls, or specific solutions as swimming pool controls & sprinkler systems. The tactic smart is suitable for universal wall installation as well as for installation in switching applications, or for top-hat rail mounting. The device can be operated & programmed via Bluetooth with the Talento Smart App.

SPECIFICATIONS

Operating voltage	110V~230V AC
Frequency	50HZ~60Hz
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	10A
Incandescent/halogen lamp load	2600W
LED load	400W
Ambient temperature	-20°C ~ +55°C
Time accuracy	< ± 0.3s/day at 20°C
Power reserve	8 years
Standby output	< 1W
Relay outputs	1
PROG. Functions	Weekly function, yearly function, Astro function, pulse/cycle function
Protection	IP 20
Type of installation	Wall-mounted
Shortest switching time	1min/1sec pulse



TIME SWITCH MODULES GRÄSSLIN FM/1 STuZH

17610011

The analogue timer modules are only suitable for installation & offer versatility in the entire building & in the outdoor area. They are used in universal switching tasks such as in switching systems, machine control or specific solutions, such as swimming pools or sprinkler systems. The analogue time switch modules of the FM series have improved dust protection & are used for controlling devices, motors, pumps, household appliances & boilers.

Replacement module for Tactic 111A.

SPECIFICATIONS

Operating voltage	230V AC
Frequency	50Hz
Type of installation	Module, for installation in end devices
Type of contact	Changeover contact
Program	Daily program
Number of switching segments	96
Number of channels	1 channel
Manual switch	Auto/Fix ON/Fix OFF
Power reserve	-
Drive	Synchronous motor
Switching output	Potential-free & phase-independent
Switching capacity at 250V AC, $\cos \phi = 1$	16A
Switching capacity at 250V AC, $\cos \phi = 0.6$	8A
Incandescent/halogen lamp load	1400W
Shortest switching time	15 min
Programmable every	15 min
Time accuracy	Synchronized with mains
Standby output	0,9W
Housing & insulation material	High-temp resistant, self-extinguishing thermoplastic
Protection rating	IP 20
Ambient temperature	-20°C ~ +55°C



TIME SWITCH MODULES GRÄSSLIN FM/1 QRTuZH

27610011

The analogue timer modules are only suitable for installation & offer versatility in the entire building & in the outdoor area. They are used in universal switching tasks such as in switching systems, machine control or specific solutions, such as swimming pools or sprinkler systems. The analogue time switch modules of the FM series have improved dust protection & are used for controlling devices, motors, pumps, household appliances & boilers.

Replacement module for Tactic 211A

SPECIFICATIONS

Operating voltage	110V~230V AC
Frequency	50Hz~60Hz
Type of installation	Module, for installation in end devices
Type of contact	Changeover contact
Program	Daily program
Number of switching segments	96
Number of channels	1
Manual switch	Auto/Fix ON/Fix OFF
Power reserve	Max. 5 days
Drive	Quartz-controlled stepper motor
Switching output	Potential-free & phase-independent
Switching capacity at 250V AC, $\cos \phi = 1$	16A
Switching capacity at 250V AC, $\cos \phi = 0.6$	8A
Incandescent/halogen lamp load	1400W
Shortest switching time	15 min
Programmable every	15 min
Time accuracy	$\leq \pm 1.5s/day$ (Quartz) at 25°C
Standby output	0,6W
Housing & insulation material	High-temp resistant, self-extinguishing thermoplastic
Protection rating	IP 20
Ambient temperature	-20°C ~ +55°C



TIME SWITCH MODULES GRÄSSLIN Tactic 211 E

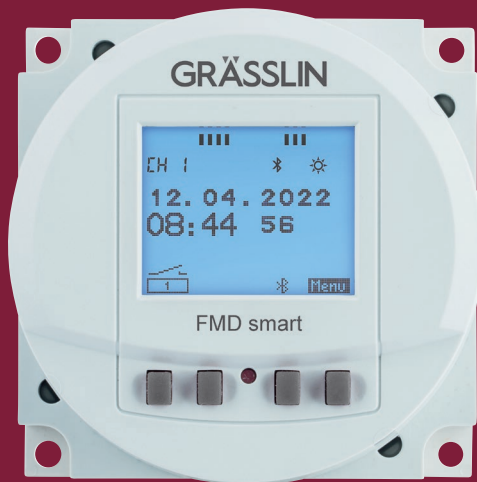
27910011

The universal timers from the tactic product range offer a wide range of uses throughout the building & also outdoors. They are used in switchgear, machine controls & specific solutions such as swimming pool controls or sprinkler systems. The analogue 1-channel universal time switches of the tactic series are suitable for surface-mounting, installation & DIN-rail mounting, are easy to use & are equipped with a quartz or synchronous drive.

SPECIFICATIONS

Operating voltage	110V~230V AC
Frequency	50Hz~60Hz
Type of installation	Front panel installation
Type of contact	Changeover contact
Program	Daily program
Number of switching segments	96
Number of channels	1
Manual switch	Auto/Fix ON/Fix OFF
Power reserve	Max. 3 days
Drive	Quartz-controlled stepper motor
Switching output	Potential-free & phase-independent
Switching capacity at 250V AC, $\cos \phi = 1$	16A
Switching capacity at 250V AC, $\cos \phi = 0.6$	8A
Incandescent/halogen lamp load	1400W
Shortest switching time	15 min
Programmable every	15 min
Time accuracy	$\leq \pm 1.5s/day$ (Quartz) at 25°C
Standby output	0,6W
Housing & insulation material	High-temp resistant, self-extinguishing thermoplastic
Protection rating	IP 20
Ambient temperature	-20°C ~ +50°C

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TIME SWITCH MODULES GRÄSSLIN FMD Smart

436000011

The time switch module FMD smart C15 is suitable for installation & provides versatile application options throughout buildings & outdoors. It is used for universal switching tasks such as in switchgear, machine controls, or specific solutions as swimming pool controls & sprinkler systems. The FMD smart is designed for installation in customer-specific switching applications. The device can be operated & programmed via Bluetooth with the Talento Smart App. Replacement module for Tactic Smart A

SPECIFICATIONS

Operating voltage	110V~230V AC
Frequency	50Hz~60Hz
Switching capacity at 250V AC, cos phi = 1	16A
Switching capacity at 250V AC, cos phi = 0.6	10A
Incandescent/halogen lamp load	2600W
LED load	400W
Ambient temperature	-20°C ~ +55°C
Time accuracy	< ± 0.3s/day at 20°C
Shortest switching time	1min/1sec pulse
Number of channels	1 channel
Power reserve	8 years
Standby output	< 1W
Relay outputs	1
PROG. Functions	Weekly function, yearly function, Astro function, pulse/cycle function
Protection	IP 20

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TWIGHLIT SWITCHES GRÄSSLIN Turnus 200

181700011

The Turnus 200 twilight switch offers maximum functionality & allows the individual control of the desired situation in residential, office, commercial & industrial buildings & on the entire outside area & also provides noticeably more energy efficiency. It precisely controls according to light intensity through its integrated light sensor. The Turnus is ideally suited for use in shop windows, for illuminated billboards or street lighting. The Turnus is characterized by simple & flexible installation through surface mounting & simple design.

SPECIFICATIONS

Operating voltage	230V AC
Frequency	50Hz~60Hz
Standby output	6W
Brightness setting range	2-2000lx
On/off switching delay	20s~120s
Switching capacity	10A (at 250V AC, $\cos \phi = 1$), 2A (at 250V AC, $\cos \phi = 0.6$)
Incandescent/halogen lamp load	1200W
Ambient temperature	-35°C ~ +60°C
Protection rating	IP 54



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