GRÄSSLIN
by INTERMATIC®

THE talento smart
TIME SWITCH

talento smart

GRÄSSLIN

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GRÄSSLIN
talento smart
MOBILE APP

GRÄSSLIN
smart link
Bluetooth®

WIRELESS
DATA TRANSMISSION
BLUETOOTH TECHNOLOGY ON BOARD

DOT-MATRIX
DISPLAY
WITH LED BACKGROUND LIGHTING

COMFORT
SETUP
IN STANDARD AND ADVANCED MODE

MOBILE APP
PROGRAMMING
NO ADDITIONAL HARDWARE REQUIRED

talento smart: Time Switch Technology for Professionals

Digital DIN-rail time
switches with Grässlin
smartlink technology

The right choice for all time switch tasks

The new digital DIN-rail time switches from the talento smart
product family were developed with the electrician in mind.
They feature a host of technical innovations, enabling electri-
cians to complete time switch tasks in modern building auto-
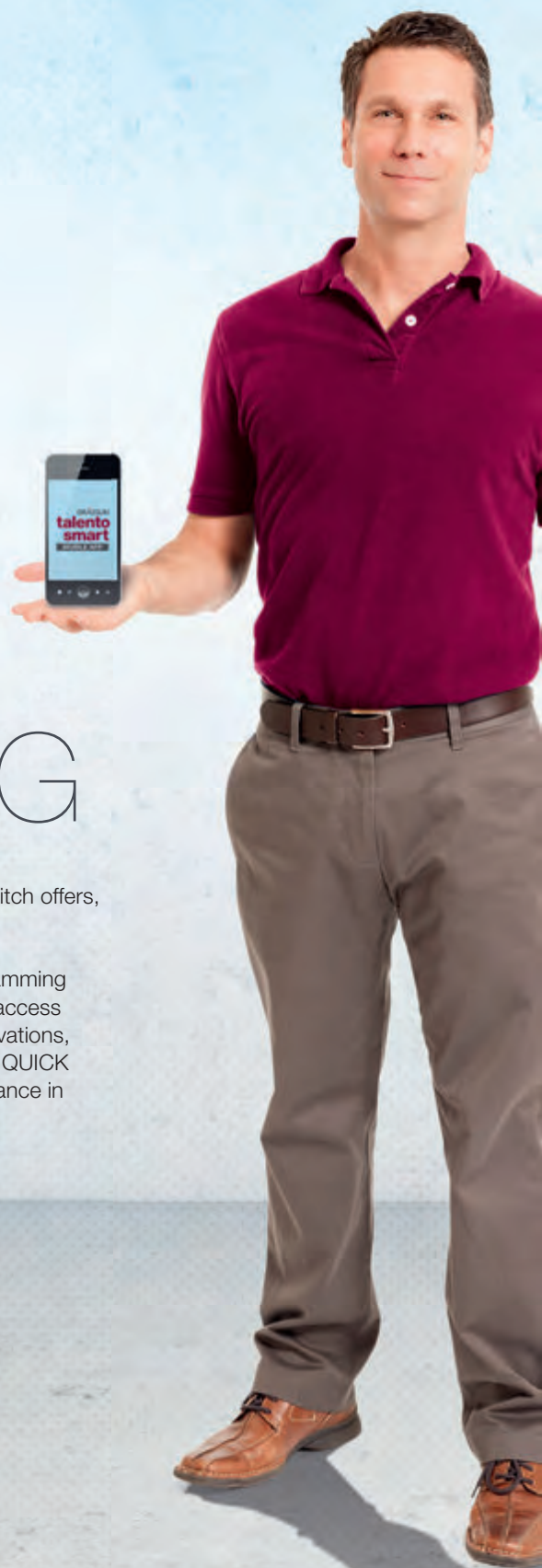mation quicker and easier.

*Quick and easy programming, installation and adjustment of
time switch programs*

BE
SMART
ANYTIME

**talento
smart**

Developed for Electricians.
Optimized for their daily work.

The new digital DIN-rail time switches by Grässlin offer electricians everything they need for quick and easy programming, time-saving installation and seamless configuration.

EASY
PROGRAMMING

It's a common problem for electricians: The more programming options a time switch offers, the more complicated its operation on the construction site.

The new talento smart time switches have been designed to facilitate easy programming by electricians via a computer or smartphone. Two modes provide easy and fast access to the most common as well as complex time switch functions. A number of innovations, such as the WILDCARD function for easy programming of recurring events or the QUICK COPY function for a faster transfer of existing programs, provide additional assistance in programming.

GRÄSSLIN
**smart
link**
Bluetooth

TIME-SAVING
INSTALLATION

Daily work on construction sites shows that electricians still spend a long time installing, programming and commissioning a time switch. But every minute counts on a busy construction site.

talento smart time switches can be programmed even before arrival on site, which saves valuable time prior to the physical installation. With the proven CLICK-system, time switches can be installed within seconds. Last but not least: A consistent user interface across all models provides for easy and quick programming and operation.

SEAMLESS
CONFIGURATION

A large part of the daily work of an electrician is the adjustment of existing installations: This includes, for example, the programming of additional functions or the connection of new modules.

The new talento smart time switches cover electricians in all situations. Equipped with up to 800 memory spaces, they are the ideal solution for easy and efficient adjustment and management of time switch functions.

ALWAYS THE RIGHT
CHOICE FOR TIME
SWITCH
TASKS talento
smart

Sophisticated Product Design.
Convincing down to the last detail.

Grässlin is a leading pioneer and innovator in time switch technology and an ardent driver in the advancement of time switches - always motivated by facilitating the work of electricians. This is best illustrated by the product design or our new talento smart time switches, which was redeveloped from scratch.

8 YEARS POWER RESERVE

LONG-LIFE BATTERY

Pre-programming without power supply

PROVEN CLICK-SYSTEM

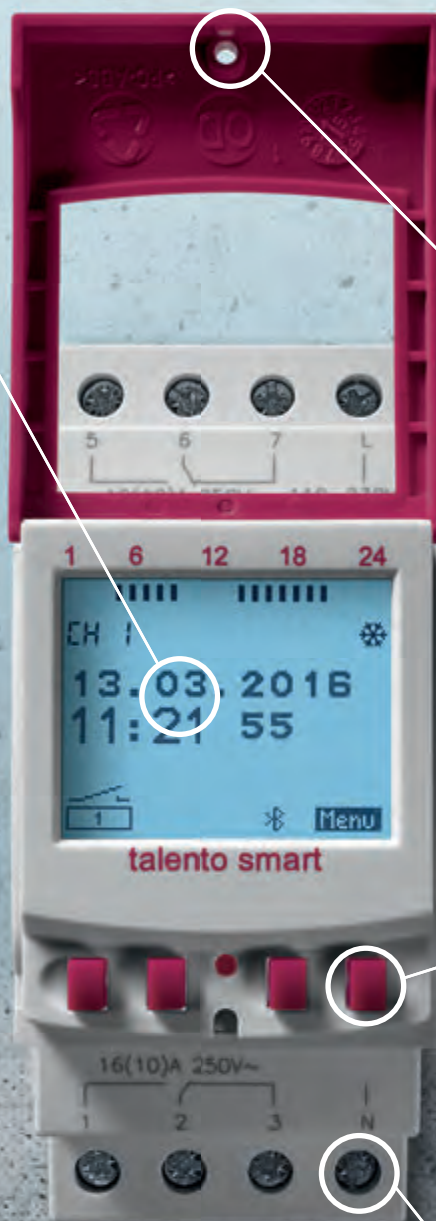Quick and easy installation on DIN-rail

GRÄSSLIN

DEVELOPED, ASSEMBLED AND CERTIFIED IN GERMANY

Casing, controls and display elements as well as bolted connections: Development, assembly and quality control take place at our facility in St. Georgen in the Black Forest.

MADE IN GERMANY

DOT-MATRIX
DISPLAY

HIGH RESOLUTION DISPLAY
WITH LED BACKGROUND LIGHTING

TAMPER-SAFE BY SEALABLE CASING

Secure-PIN protection prevents any unauthorized access by a talento smart mobile app.

SOFT-TOUCH CONTROLS WITH OPTIMIZED PRESSURE POINT

Reliable feedback prevents errors in operating the time switch

TERMINAL ALLOWS FOR VARIOUS SIZE WIRE GUAGES

Suitable for international installations

ON BOARD TECHNOLOGY

WIRELESS DATA TRANSFER AND EXPORT

talento smart

More freedom by innovative programming functionalities

The new digital DIN-rail time switches from the talento product family feature a range of innovations, opening up new programming functionalities for electricians.
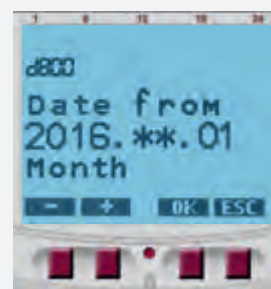
WILD CARD

WILDCARD-FUNCTION

This function utilizes the principles of programming with wildcards. It enables electricians to define recurring, date-based events for an indefinite period by once-off programming. This not only reduces the time spent on programming, but also the amount of memory required.

Each 1st day a month every year
****.**.01 – ****.**.01

Each 1st day a month in 2016
2016.**.01 – 2016 .**.01

PROGRAMMING WITH OR WITHOUT A DATE

With or without a date? talento smart checks this setting at the outset. Electricians now have access to an unlimited combination of all programming options. A consistent operating philosophy across all devices warrants easy and quick programming.

01.01.2016 – 01.01.2016		<- single date		
06.01.2016 – 06.01.2016		<- single date		
24.12.2016 – 26.12.2016		<- range of date		
:				
ON	06:00	1,2,3,4,5,_,_	1,2	
OFF	10:00	1,2,3,4,5,_,_	1,_	
ON	16:00	1,2,3,4,5,_,_	1,_	
OFF	20:00	1,2,3,4,5,_,_	1,2	
IMP	23:00	_,_,_,_,_,6,7	1,_	10 sec
:				
Prio	high			

STANDARD MODE

The STANDARD-Mode is pre-set and covers the most common functionalities used by electricians. The electrician does not have to read lengthy manuals, but can begin programming immediately.

ADVANCED MODE

The ADVANCED-Mode provides electricians with the complete range of programming options. Functionalities such as cycles, pulse or randomized operation can be added and combined as required.

COMFORTSETUP
WITH **WILDCARD** FUNCTION
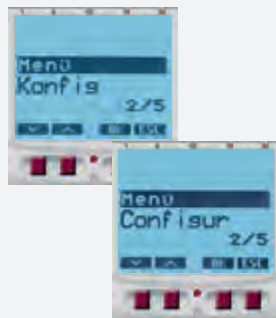**IN STANDARD AND ADVANCED MODE**

GRÄSSLIN
**talento
smart**
PC SOFTWARE

GRÄSSLIN
**talento
smart**
MOBILE APP

talento sma

GRÄSSLI

PROGRAMMING ON:
TIME SWITCH
SMARTPHONE
TABLET
PC

Improved user interface and extended functionality.

With talento smart DIN-rail time switches, electricians enjoy more than just flexible programming. When it comes to making work easy, the developers at Grässlin have come up with truly innovative solutions.

COMMUNICATION IN 14 LANGUAGES

All talento smart models feature a text-based user interface. A special functionality:
talento smart does not use confusing acronyms. This is done by a scrolling text message of up to 22 characters.

CS, DA, DE, EN, ES, FI, FR, HU, IT, NL, NO, PL, PT, SV

ICON-BASED STATUS INFO

Summer time, winter time, channel status as well as connection and transfer status are displayed by intuitive icons.

CONTEXT-SENSITIVE CONTROLS

Electricians are able to operate all programming steps intuitively and easily with four pressure-point optimized buttons.

WIRELESS DATA TRANSFER (GRÄSSLIN SMARTLINK)

Commissioning and operating a time switch involves many time-consuming steps. These include the programming of new devices, the adaptation of existing program installations or the copying of existing programs. Thanks to Grässlin smartlink, electricians can now greatly reduce their workload.

Grässlin smartlink enables electricians to wirelessly transfer a program configured on their smartphone, tablet or Bluetooth®-enabled PCs to a talento smart time switch. Grässlin smartlink also makes exporting existing programs quick and easy.

COMPREHENSIVE FUNCTIONALITY

ON/OFF function
shortest switch time 1 min.

RANDOM-switching
for randomized changes of the on-off times. Fix ON/OFF times

PULSE-function
one-time switching operation for a duration of 1 sec to 2 h.

CYCLE-function
recurring on/off duration of up to 2 h

DATE/NO-DATE function
unlimited combination with other functions

ASTRO-function
set to local sunrise/sunset times

Clear-cut programming and wireless data transfer

talento smart DIN-rail time switches and Grässlin smartlink transfer technology: This combination enables electricians to complete all programming-related tasks faster and more efficiently, thereby optimizing the overall flow of a project.

FREE MOBILE APP & PC SOFTWARE*

NO ADDITIONAL HARDWARE REQUIRED

GRÄSSLIN **talento smart** PC SOFTWARE

GRÄSSLIN **talento smart** MOBILE APP

* with Bluetooth® enabled PCs

PC SOFTWARE

TALENTO SMART PC SOFTWARE

The free talento smart PC software enables electricians to program functions on their PC prior to installation and then either transfer them wirelessly with Bluetooth® enabled PCs to the time switch or send them by email to the site.

MOBILE APP

TALENTO SMART MOBILE APP

The free talento smart mobile APP offers electricians a maximum of flexibility: They can program time switch programs whenever and wherever they wish or export and customize programs from existing installations.

MOBILE APP
PROGRAMMING

PROGRAMMING WITH TABLET, SMARTPHONE AND PC
NO ADDITIONAL HARDWARE REQUIRED

GRÄSSLIN
smart link
Bluetooth®

Wireless programming, transfer and export of programs without additional hardware

ON BOARD TECHNOLOGY

Bluetooth®

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Grässlin smartlink offers fast and easy...

...TRANSFER OF PROGRAMS

Creating programs on the notebook, tablet or smartphone is easy and comfortable, and allows the wireless transfer to the time switch .

... DATA EXPORT

Thanks to Grässlin smartlink, existing program details can be exported quickly and completely to a smartphone, even when the cabinet door is closed.

... COPYING PROGRAMS

Grässlin smartlink allows for an easy export of program data from a time switch to a smartphone and vice versa.

talento smart:
Always a good choice.

The talento smart product family features three series which differ in functionality. A consistent operating philosophy across all models enables users to work quickly and easily and thereby significantly cut the time spent on projects. The talento smart system is continuously being advanced and complemented by additional models and modules.

talento smart BASIC

Cost-efficient solution for standard tasks

talento smart CLASSIC

Extended functionality for more complex tasks

talento smart SYSTEM

System version with maximum functionality

	talento smart B15	talento smart B25	talento smart C15	talento smart C25		talento smart S25
Product-No.	43.02.0001.1	43.02.0002.1	43.03.0001.1	43.03.0002.1	43.03.0003.1**	43.04.0001.1*
EAN Code	4010940044718	4010940044725	4010940044749	4010940044756	4010940044787	4010940044763
Functions						
ON	●	●	●	●	●	●
OFF	●	●	●	●	●	●
Pulse			●	●	●	●
Cycle			●	●	●	●
Astro			●	●	●	●
Random ON/OFF			●	●	●	●
Programs						
with date	1	2	50	50	50	80
without date	10	10	50	50	50	80
Memory spaces	100	100	500	500	500	800
Channels	1	2	1	2	2	2
Current output	Phase-independent (zero crossing)	Phase-independent (zero crossing)	Phase-independent (zero crossing)	Phase-independent (zero crossing)	Phase-independent	Phase-independent (zero crossing)
Supply voltage	AC 110-230 V ± 10 % 50-60 Hz	AC 110-230 V ± 10 % 50-60 Hz	AC 110-230 V ± 10 % 50-60 Hz	AC 110-230 V ± 10 % 50-60 Hz	AC/DC 12/24 V ± 10 % 50-60 Hz	AC 110-230 V ± 10 % 50-60 Hz

* available in 2017

** available from end-2016

TECHNICAL DATA

Electrical data

Current capacity - ohmic load	16 A / 250 V AC
Current capacity - inductive load cos.phi 0.6	10 A / 250 V AC
Load incandescent / halogen lamp	2,600 VA
Load fluorescent lamps	730 VA (serial compensated)
	1.000 VA (Duo-switch)
	1.000 VA (non-compensated)
	1.000 VA (serial compensated)
Load compact fluorescent lamp	14 x 23 W, 16 x 20 W, 16 x 15 W, 18 x 11 W, 22 x 7 W
Load LED-lamps < 2 W	Max. 30 W
Load LED-lamps 2-8 W	Max. 100 W
Load LED-lamps > 8 W	Max. 120 W
Load sodium-vapour lamp - non-compensated	1 x 400 W, 2 x 250 W
Load sodium-vapour lamp - serial compensated	1 x 250 W (32 µF), 1 x 400 W (45 µF), 2 x 150 W (20 µF)
Load mercury-vapour lamp - serial compensated	1 x 400 W (25 µF), 1 x 700 W (40 µF), 2 x 250 W (18 µF),
	4 x 125 W (10 µF), 6 x 50 W (7 µF)
Load mercury-vapour lamp - non-compensated	1 x 700 W, 2 x 250 W, 4 x 125 W
Current capacity - DC	300 mA / 60 V DC
	800 mA / 24 V DC
Power consumption	< 1 VA (Standby-mode)
Accuracy	± 0,3 seconds/day @ 20° C
Time basis	Quartz
Power reserve	8 years, programs saved in EEPROM

Power connection

Device	Screw terminal with wire protection max. 2,5 mm^2
	captive screw terminals

Communication method

Radio signal	Bluetooth 4.0

Operating specifications

Manual switch	Automatic mode, Fix ON/OFF, Override
Tempering protection	PIN-code, sealable
Programming	Time switch, PC, mobile devices
Meters	Hours counter with maintenance mode

Display and format

Display illumination	White
Time format	12h (AM/PM), 24h (factory pre-set)
Summer/winter time adjustment	automatic, date-based, can be deactivated
Status indicator	Switch position display

Environmental conditions

Temperature (operation)	-20° C ... +55° C

General specifications

Number of modules	2
Weight	170 g
Material	Thermoplastics, self-extinguishing & high-temperature resistant
Mounting	DIN rail
Languages	CS, DA, DE, EN, ES, FI, FR, HU, IT, NL, NO, PL, PT, SV

Compliance with standards

Protection type	IP20
Protection class	II, according to corresponding mounting
Approval mark	CE

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by **INTERMATIC**