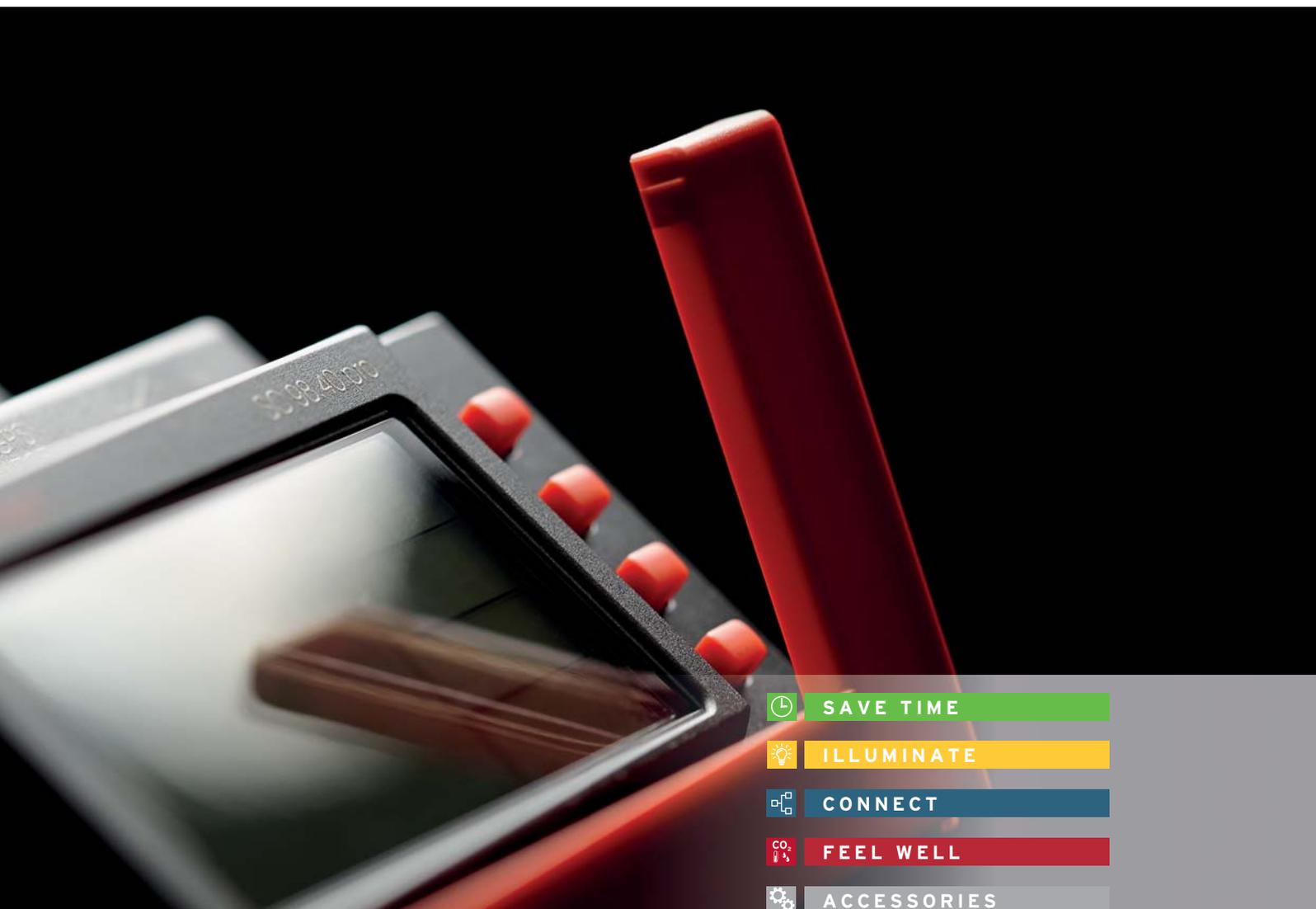


hugomüller

switching controlling counting



-  SAVE TIME
-  ILLUMINATE
-  CONNECT
-  FEEL WELL
-  ACCESSORIES

Compact catalogue

2018 | 2019

Compact catalogue 2018-2019

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1929 till this day ... and in the future.

The company was founded in 1929 by Hugo Müller. Within a very short time the innovative company had become well known in the locality as a manufacturer of high quality loudspeakers, headphones, radio assembly kits, radios and, some time later, radio time switches.

For Hugo Müller, the change to electronics occurred in 1978, when the first time switch capable of being programmed for a year was introduced to the market. Its success was also virtually pre-programmed – the new product was exceptionally well received.

Today, time switches continue to be an important element of the product range, albeit with features which are subject to continuous improvement. This characteristic reflects the company's objective for the future. The consistent optimization and expansion of the standard product range, including tailor-made products to meet individual customers' specific needs.

Our product solution range includes timing devices such as analog and digital timers, master clocks, hour meters, count down timers and light control devices such as analog and digital twilight switches, astronomical time switches, staircase timers, dimmers and also devices for climate control and building automation (KNX).

OEM

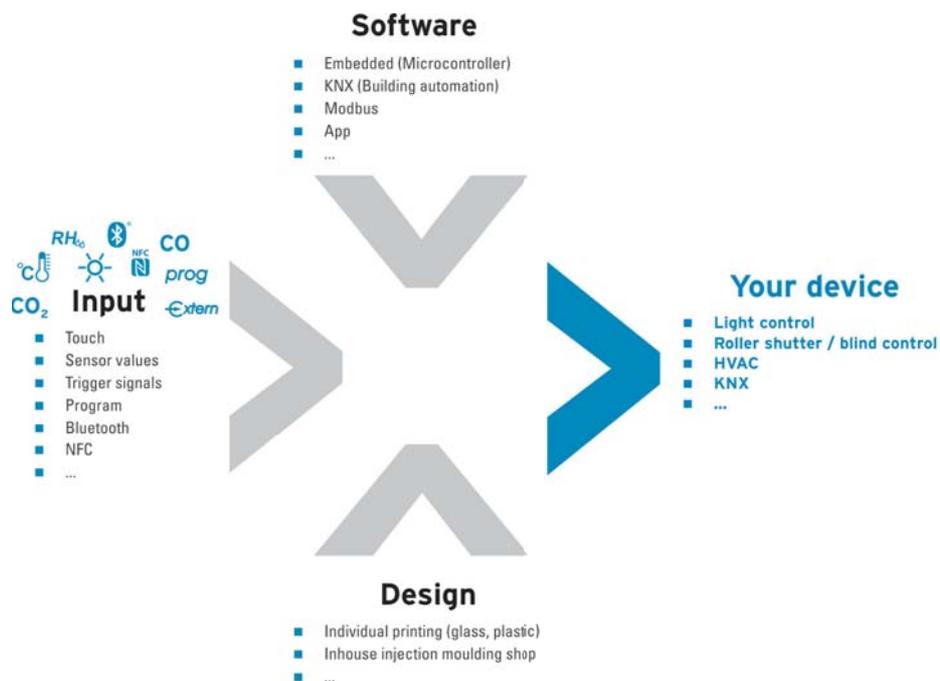
Hugo Müller is your partner whenever you need a customized electro-technical product. We manage the transition from your wishes and vague specifications to well-designed and sellable products.

Hard- and software development, prototyping and serial production are carried-out in our premises. This allows us to advise and support you through the complete development process. Our experts in development and production are efficiently realizing your ideas according to relevant laws, standards and directives. The products are produced with latest technologies and tested with self-made inspection devices. The quality of your product has highest priority.

All products are manufactured in Schwenningen - we offer quality „**Made in Germany**“.

Hugo Müller produces your control and switching devices for time, light, temperature or air quality applications.

For each single problem we'll find a solution. Please contact us, we're happy to talk to you.



Digital time switches week for DIN-rail mounting

week^{prog}

- Daily and weekly program
- Minimum interval 1 min.
- Permanent by date
- Manual permanent mode
- Manual override
- Variable block programming
- Fully automatic daylight saving time
- Elapsed time and pulse counter
- Pulse function
- Security by PIN-Code
- Text based menu
- Data security through E²PROM



- DIN-rail mounting 17.5 mm
- 1 channel / 46 memory locations
- Switching capacity 16 A
- 6 years battery-reserve
- Programmable with PC and Smartphone (see accessories)
- Removable programming module

müller	paladin by müller	Channels
SC 08.11 pro	172 110 pro	1

✓ Housing colour



- DIN-rail mounting 35 mm
- 1-2 channels / 56 memory locations
- Switching capacity 16 A
- 10 years battery-reserve / exchangeable battery
- Directly programmable with Smartphone (NFC)
- Ideal for modern lamps (LED)
- Simple yearly program
- Illuminated display / Display of the switching program

easy

müller	paladin by müller	Channels
SC 18.10 easy	170 410 easy	1
SC 18.20 easy	170 420 easy	2

✓ Housing colour



- DIN-rail mounting 35 mm
- 1-2 channels / 100 memory locations
- Switching capacity 16 A
- 10 years battery-reserve / exchangeable battery
- Directly programmable with Smartphone (Bluetooth)
- Ideal for modern lamps (LED)
- Zero-cross switching (up to 600 W LED load)
- Simple yearly program
- Random function / Cycle function
- Illuminated display / Display of the switching program

pro4

müller	paladin by müller	Channels
SC 28.11 pro4	172 411 pro4	1
SC 28.21 pro4	172 421 pro4	2

✓ Housing colour

Available from June 2018

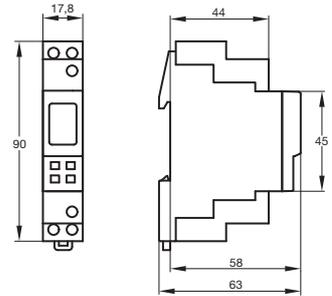
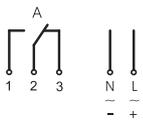


- DIN-rail mounting 70 mm
- 1-4 channels / 300 memory locations
- Switching capacity 16 A
- 10 years battery-reserve
- Programmable with PC and Smartphone (see accessories)
- Data-key function
- External input / Cycle function
- DCF / GPS function
- Up to 300 permanent switchings by date
- Illuminated display

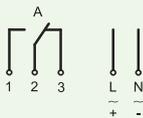
müller	paladin by müller	Channels
SC 88.10 pro	179 410 pro	1
SC 88.20 pro	179 420 pro	2
SC 88.30 pro	179 430 pro	3
SC 88.40 pro	179 440 pro	4

✓ Housing colour

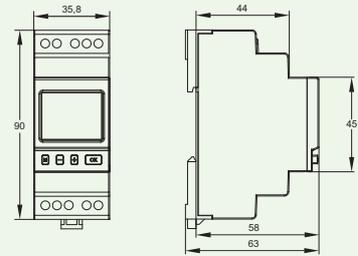
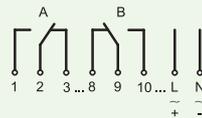
week^{prog}



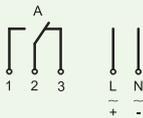
1 channel



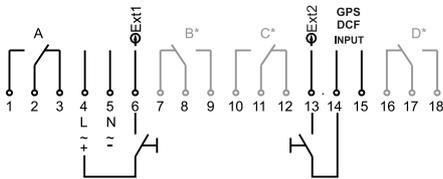
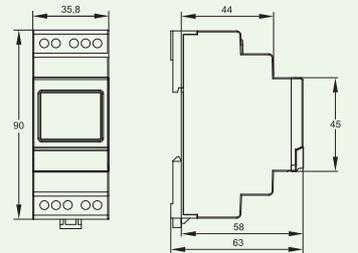
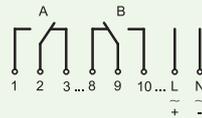
2 channels



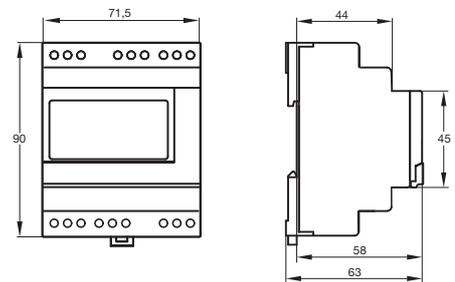
1 channel



2 channels



* Depends on the version



Digital time switches week - panel, wall and flush mounting

week^{prog}

- Daily and weekly program
- Minimum interval 1 min.
- Permanent by date / holiday function
- Manual permanent mode
- Manual override
- Variable block programming
- Fully automatic daylight saving time
- Elapsed time and pulse counter
- Pulse function
- Security by PIN-Code
- Text based menu
- Data security through E²PROM



- Switchboard panel mounting
- 1 channel / 46 memory locations
- Switching capacity 8 A
- 4 years battery-reserve
- External input

■ müller	Channels
SC 24.10 pro	1
<input checked="" type="checkbox"/> Housing colour	



- Switchboard panel and wall mounting
- 1-2 channels / 46 memory locations
- Switching capacity 16 A
- 10 years battery-reserve
- Programmable with PC and Smartphone (see accessories)
- Data-key function
- Illuminated display

■ müller	Channels
SC 44.11 pro	1
SC 44.21 pro	2
<input checked="" type="checkbox"/> Housing colour	

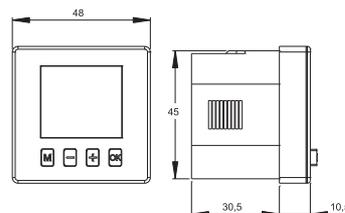
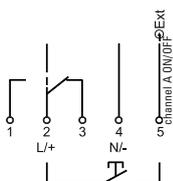


- Flush-mounted fitting
- 1 channel / 56 memory locations
- Switching capacity 10 A
- 10 years battery-reserve
- Directly programmable with Smartphone (NFC)
- Ideal for modern lamps (LED)
- Simple yearly program
- Illuminated display / Display of the switching program
- Can be used with many common switch programs

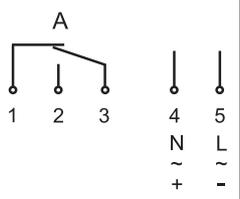
easy

■ paladin by müller	Channels
173 110 easy	1
<input checked="" type="checkbox"/> Housing colour	

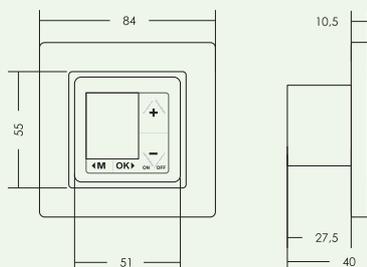
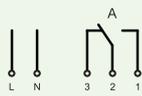
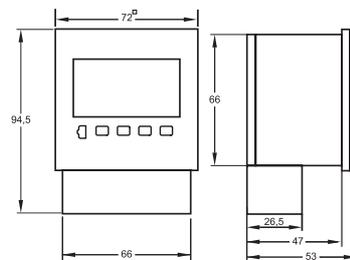
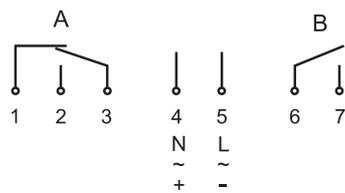
week^{prog}



1 channel



2 channels



Digital time switches astro

- Astro program: Automatic switching according to the position the sun
- Economical night program
- Minimum interval 1 min.
- Manual permanent mode
- Manual override
- Automatic sorting of switching times
- Fully automatic daylight saving time
- Security by PIN-Code
- Ideal for modern lamps (LED, CFL, etc.)
- Data security through E²PROM



- Digital time switch astro with weekly program
- DIN-rail mounting 17.5 mm
- 1 channel / 60 memory locations
- Switching capacity 16 A
- 6 years battery-reserve
- Programmable with PC and Smartphone (see accessories)
- Removable programming module
- Extra switching times (weekly time function)

müller	paladin by müller	Channels
SC 08.13 pro	172 113 pro	1
<small>✓ Housing colour</small>		



- Digital time switch astro with daily program
- DIN-rail mounting 35 mm
- 1 channel / 4 memory locations
- Switching capacity 16 A
- 10 years battery-reserve / exchangeable battery
- Direct programmable with smartphone (NFC)
- Illuminated display
- Display of the switching program

easy

müller	paladin by müller	Channels
SC 18.13 easy	170 413 easy	1
<small>✓ Housing colour</small>		



- Digital time switch astro with weekly program
- DIN-rail mounting 35 mm
- 1-2 channels / 56 memory locations
- Switching capacity 16 A
- 10 years battery-reserve / exchangeable battery
- Direct programmable with smartphone (NFC)
- Extra switching times (weekly timer function)
- Illuminated display / Display of the switching program

easy

müller	paladin by müller	Channels
SC 18.14 easy	170 414 easy	1
SC 18.24 easy	170 424 easy	2
<small>✓ Housing colour</small>		



- Digital time switch astro with weekly program
- DIN-rail mounting 35 mm
- 1-2 channels / 100 memory locations
- Switching capacity 16 A
- 10 years battery-reserve / exchangeable battery
- Directly programmable with Smartphone (Bluetooth)
- Zero-cross switching (up to 600 W LED load)
- Extra switching times (weekly timer function)
- Illuminated display / Display of the switching program

pro4

müller	paladin by müller	Channels
SC 28.13 pro4	172 413 pro4	1
SC 28.23 pro4	172 423 pro4	2
<small>✓ Housing colour</small>		

Available from June 2018

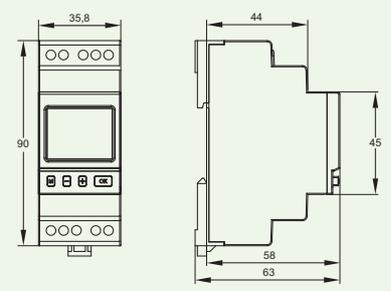
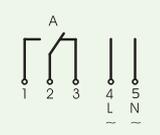
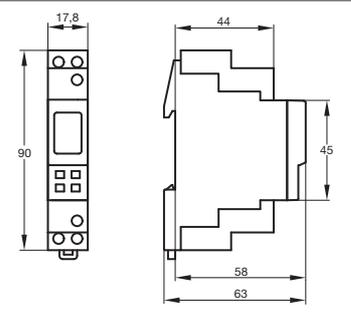
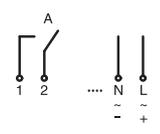


- Digital time switch astro with weekly program
- Flush-mounted fitting
- 1 channel / 56 memory locations
- Switching capacity 10 A
- 10 years battery-reserve
- Directly programmable with Smartphone (NFC)
- Extra switching times (weekly timer function)
- Illuminated display / Display of the switching program
- Can be used with many common switch programs

easy

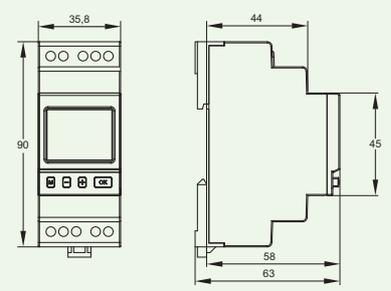
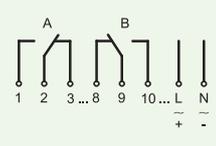
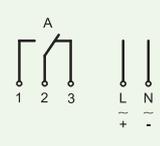
paladin by müller	Channels
173 113 easy	1
<small>✓ Housing colour</small>	

astr-prog



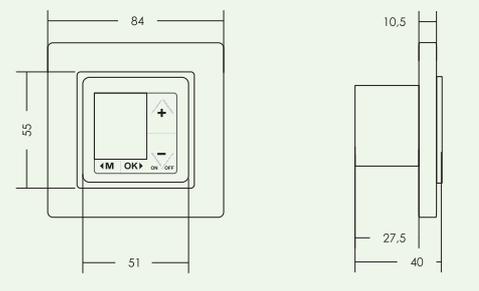
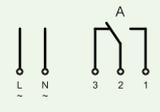
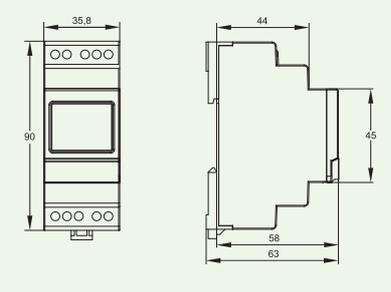
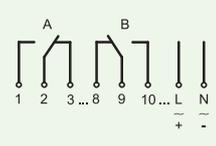
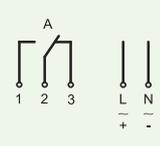
1 channel

2 channels



1 channel

2 channels



Digital time switches year

- Daily, weekly and yearly program
- Yearly program with Easter function, Weekday function and extra-switching time function
- Minimum interval 1 min.
- Permanent by date / holiday function
- Manual permanent mode
- Manual override
- Variable block programming
- Fully automatic daylight saving time
- Elapsed time and pulse counter
- Pulse function
- Security by PIN-Code
- Text based menu
- Illuminated display
- Data security through E²PROM



- DIN-rail mounting 35 mm
- 1 channel / 300 memory locations
- Switching capacity 16 A
- 10 years battery-reserve
- Programmable with PC and Smartphone (see accessories)
- Data-key function
- Cycle function
- DCF / GPS function
- Up to 300 permanent switchings by date

■ müller	■ paladin by müller	Channels
SC 28.19 pro	✓ 172 419 pro	1

✓ Housing colour



- DIN-rail mounting 70 mm
- 1-4 channels / 300 memory locations
- Switching capacity 16 A
- 10 years battery-reserve
- Programmable with PC and Smartphone (see accessories)
- Data-key function
- External input / Cycle function
- DCF / GPS function
- Up to 300 permanent switchings by date

■ müller	■ paladin by müller	Channels
SC 98.10 pro	✓ 179 610 pro	1
SC 98.20 pro	✓ 179 620 pro	2
SC 98.30 pro	✓ 179 630 pro	3
SC 98.40 pro	✓ 179 640 pro	4

✓ Housing colour

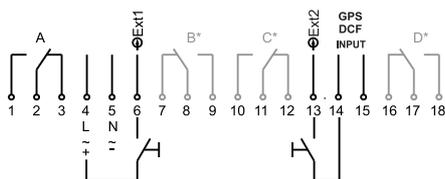
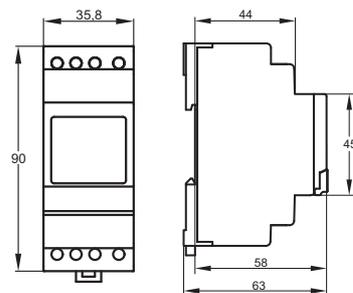
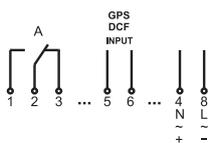


- 19"-housing
- 2 or 4 channels / 300 memory locations
- Switching capacity 5 A
- 10 years battery-reserve
- Programmable with PC and Smartphone (see accessories)
- Data-key function
- Cycle function
- DCF / GPS function
- Up to 300 permanent switchings by date

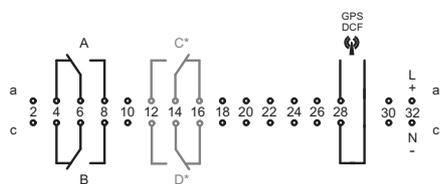
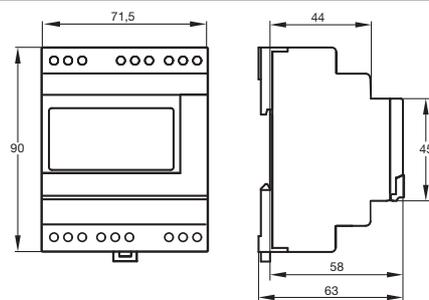
■ müller	Channels
SC 93.20 pro	2
SC 93.40 pro	4

✓ Housing colour

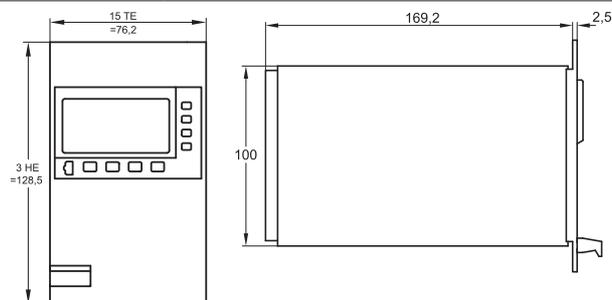
year^{prog}



*Depends on the version



*Depends on the version



Masterclocks for DIN-rail mounting



- Short-circuit proof slave-clock-line
- Automatic adjustment of slave clocks
- Automatic time correction of slave clocks after supply voltage interruption
- Automatic daylight saving time (European standard) with 60 additional pulses or pulse suppression for 1 hour of the slave-clock-line
- Monitoring of slave-clock-line and malfunction indicator in display
- Security by PIN-Code
- Illuminated display
- DCF/GPS function
- 10 years battery-reserve (time switch)
- Data security through E²PROM



- DIN-rail mounting 70 mm
- 1 slave-clock line
- For approx. 5 slave clocks (24 VDC, 35 mA, pole changing pulse)

müller	Slave clock lines	Channels
SC 58.07 pro	1	-
<small>✓ Housing colour</small>		



- DIN-rail mounting 70 mm
- 1 slave-clock line
- Suitable for slave clocks up to 250 V~
- A pulse amplifier is not needed

müller	Slave clock lines	Channels
SC 58.08 pro	1	-
<small>✓ Housing colour</small>		

week^{prog}



- DIN-rail mounting 70 mm
- 1 slave-clock line
- For approx. 20 slave clocks (24 VDC, 150 mA, pole changing pulse)
- **Time Switch:** Weekly timer / 1 channel [similar to SC 88.10 pro]

müller	Slave clock lines	Channels
SC 58.17 pro	1	1
<small>✓ Housing colour</small>		

year^{prog}



- DIN-rail mounting 140 mm
- 1 slave-clock line
- For approx. 40 slave clocks (24 VDC, 300 mA, pole changing pulse)
- **Time Switch:** Yearly timer / 4 channels [similar to SC 98.40 pro]

müller	Slave clock lines	Channels
SC 98.47 pro	1	4
<small>✓ Housing colour</small>		

masterclocks



<p>Slaveclocks</p>	
<p>Slaveclocks</p>	
<p>Slaveclocks</p>	
<p>MASTER CLOCK</p> <p>Slave-clocks</p> <p>TIME SWITCH</p> <p>Slaveclocks</p>	

Masterclocks pluggable into 19"-housing



- Short-circuit proof slave-clock-line
- Automatic adjustment of slave clocks
- Automatic time correction of slave clocks after supply voltage interruption
- Automatic daylight saving time (European standard) with 60 additional pulses or pulse suppression for 1 hour of the slave clock-line
- Monitoring of the slave-clock-line and malfunction indicator in display
- Security by PIN-Code
- Illuminated display
- DCF / GPS function
- 10 years battery-reserve (time switch)
- Data security through E²PROM



- 15 TE / 3 HE [128.5 x 76.2 mm]
- 2 slave-clock output-lines
- Output-line 2 adjustable to a pulse repetition rate of one per sec.
- For approx. 200 slave clocks (24 VDC, 1,5 A, pole changing pulse)
- Power supply unit for slave clocks not included
- **Time Switch:** Weekly timer / 1 channel
[Functions similar to SC 88.10 pro]

müller	Slave clock lines	Channels
SC 53.17 pro	2	1
<small>✓ Housing colour</small>		



- 15 TE / 3 HE [128.5 x 76.2 mm]
- 1 slave-clock output-line
- For approx. 200 slave clocks (24 VDC, 1,5 A, pole changing pulse)
- Power supply unit for slave clock not included
- **Time Switch:** Yearly timer / 4 channels
[Functions similar to SC 98.40 pro]

müller	Slave clock lines	Channels
SC 93.47 pro	1	4
<small>✓ Housing colour</small>		



- 15 TE / 3 HE [128.5 x 76.2 mm]
- Accessory for 19"-master clocks
- Power supply 19"-housing
- Power supply of slave clocks
- Output current 1.5 A

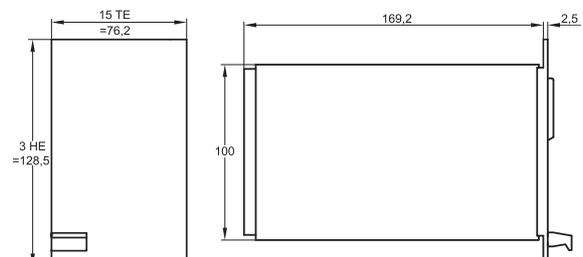
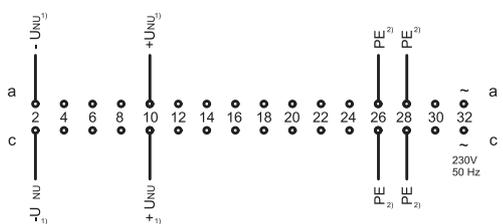
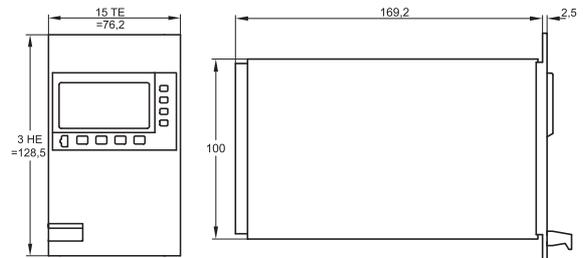
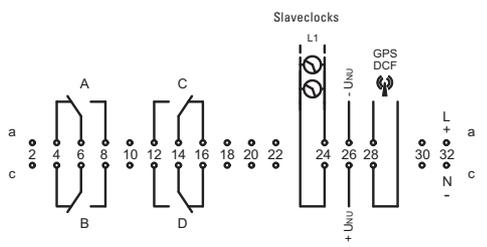
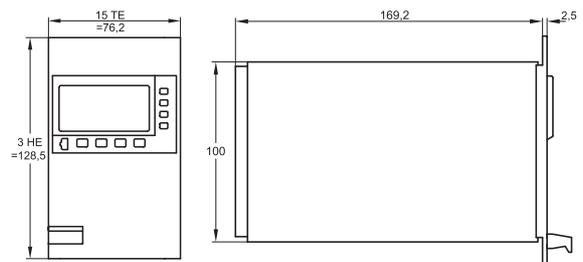
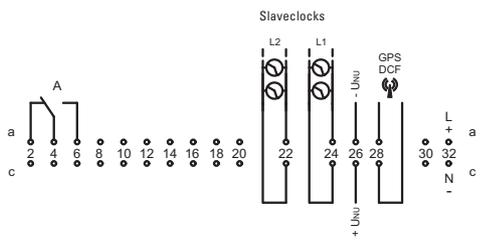
müller	power back-up	Output voltage
NT 73.24 pro	without	24 V DC
NT 73.64 pro	with	24 V DC
<small>✓ Housing colour</small>		



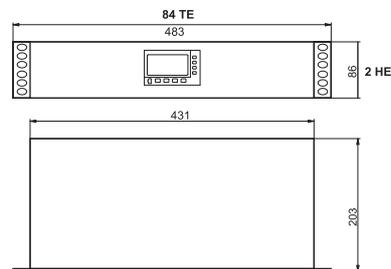
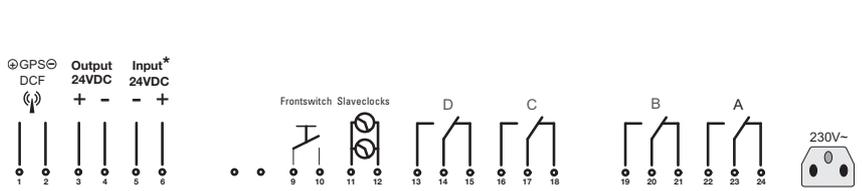
- 84 TE / 2 HE [483 x 86 x 203 mm]
- 1 slave-clock output-line
- For approx. 200 slave clocks (24 VDC, 1,5 A, pole changing pulse)
- No extra power supply unit needed (integrated 24 VDC power supply unit for slave clock pulses and GPS receiver operation)
- Frontswitch (potential-free) can be used to control an arbitrary application
- **Time Switch:** Yearly timer / 4 channels
[Functions similar to SC 98.40 pro]

müller	Slave clock output lines	Channels
SC 95.47 pro	1	4
<small>✓ Housing colour</small>		

masterclocks



¹ UNU see type sign
² NT 73.24 pro



Analogue time switches

analogue 

- Daily or weekly program
- Manual override switch [Permanent OFF / Automatic / Permanent ON]
- Timers with power back-up: Power reserve approx. 100 h
- Captive setting keys
- Easy to read switching program



- DIN-rail mounting 17.5 mm
- Daily program
- Switching capacity 16 A
- Minimum switching interval 15 min.

paladin by müller	müller	Version
111 120	VS 10.18	Day without reserve
114 120	VS 14.18	Day with reserve

↙ Housing colour ↘ Setting key colour



- DIN-rail mounting 35 mm and wall mounting
- Daily program
- Switching capacity 16 A
- Minimum switching interval 30 min.
- Minute pointer

paladin by müller	müller	Version
151 220	VS 20.18	Day without reserve
154 220	VS 24.18	Day with reserve

↙ Housing colour ↘ Setting key colour



- DIN-rail mounting 52.5 mm and wall mounting
- Daily or weekly program
- Switching capacity 16 A
- Minimum switching interval day dial 30 min.
- Minimum switching interval week dial 2 h.
- Analogue display [with hands]

paladin by müller	müller	Version
131 120	VS 30.18	Day without reserve
134 120	VS 34.18	Day with reserve
131 420	VS 30.38	Week without reserve
134 420	VS 34.38	Week with reserve

↙ Housing colour ↘ Setting key colour

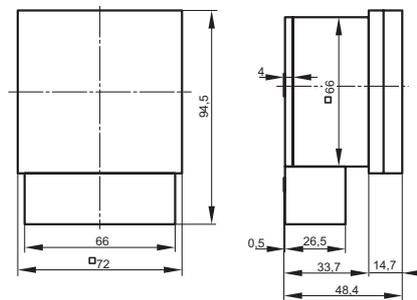
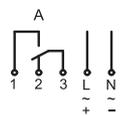
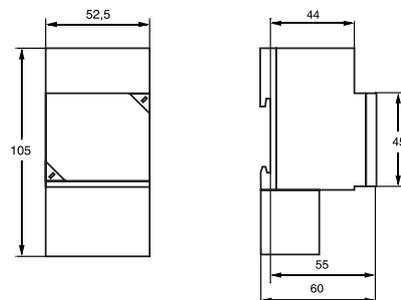
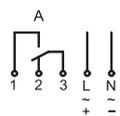
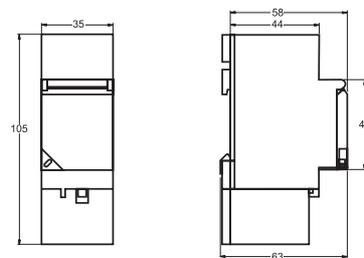
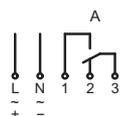
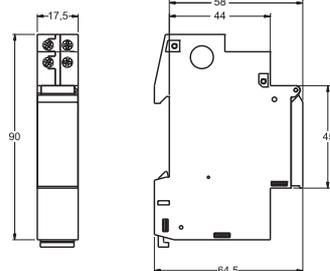


- Switchboard panel and wall mounting
- Daily or weekly program
- Switching capacity 16 A
- Minimum switching interval day dial 15 min.
- Minimum switching interval week dial 1 h.
- Analogue display [with hands]

paladin by müller	müller	Version
161 120	FS 60.18	Day without reserve
164 120	FS 64.18	Day with reserve
161 420	FS 60.38	Week without reserve
164 420	FS 64.38	Week with reserve

↙ Housing colour ↘ Setting key colour

analogue





Hour counters

Hour counters for panel mounting

- Alternating Current or Direct Current versions
- With universal connections
- Touch proof connections according to VBG 4

Hour counters for DIN-rail mounting

- Alternating Current or Direct Current versions
- Screw terminals (pull-up type)
- Touch proof connections according to VBG 4



- Panel mounting
- Integral locking spring
- Mounting aperture: 50x25 mm
- Counter capacity 99,999 h.
- With operation indicator
- Type of protection front IP 65

müller	Version
BW 30.18	Alternating current
BG 30.18	Direct current

✓ Housing colour



- Panel mounting
- Retaining Clip in delivery included
- Mounting aperture square: 45x45 mm
- Mounting aperture circle: ø 50,5 mm
- Counter capacity BW 99,999 h.
- Counter capacity BG 999,999 h.
- With operation indicator
- Type of protection front IP 50 (with ring seal 100.003: IP 54)

müller	Version
BG 40.17	Direct current
BW 40.18	Alternating current
BG 40.27	Direct current, with trim 55x55 mm
BW 40.28	Alternating current, with trim 55x55 mm
BG 40.37	Direct current, with trim 72x72 mm
BW 40.38	Alternating current, with trim 72x72 mm

✓ Housing colour



- DIN-rail mounting 17,5 mm
- Flush mount dimensions 45x17,5 mm
- Slim format
- No terminal cover
- Counter capacity 99,999 h.
- With operation indicator
- Type of protection IP 50

müller	paladin by müller	Version
BW 70.18	311 170	Alternating current
BG 70.18	312 170	Direct current

✓ Housing colour

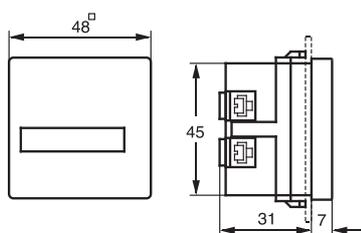
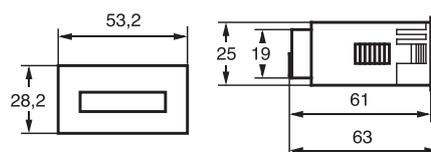


- DIN-rail mounting 35 mm
- Flush mount dimensions 45x35 mm
- Bx 70.29: without terminal cover
- Bx 70.89: with terminal cover
- With operation indicator (flashing LED)
- One Version for 50 and 60 Hz
- Counter capacity 99,999 h.
- Type of protection IP 50

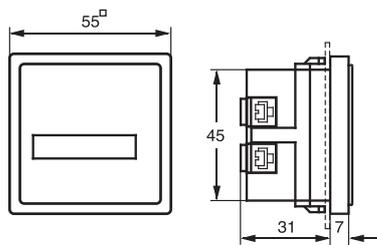
müller	paladin by müller	Version
BW 70.29	311 270	Alternating current
BG 70.29	312 270	Direct current
BW 70.89*	311 280*	Alternating current
BG 70.89*	312 280*	Direct current

✓ Housing colour * with terminal cover

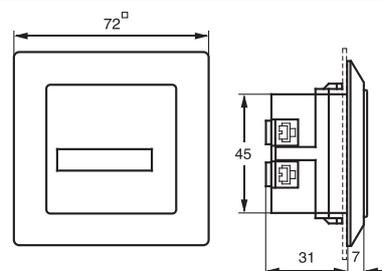
2 3 4 5 h



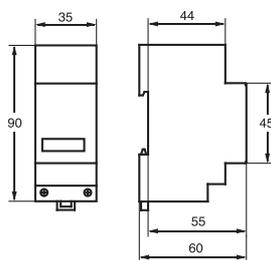
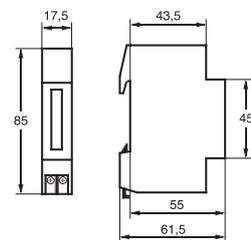
BW 40.18 / BG 40.17



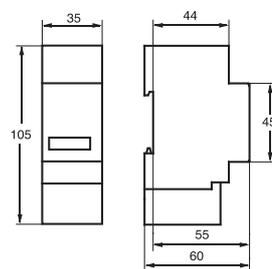
BW 40.28 / BG 40.27



BW 40.38 / BG 40.37



BW 70.29 / BG 70.29



BW 70.89 / BG 70.89

Countdown timers

- 1 channel / change-over relay
- Minimum interval 1 sec.
- Input for start and stop (230 VAC)
- Optical and acoustic signal on completion of time



- Timer
- Panel mounting
- Switching capacity 8 A
- Max. time TC 14 9:59:59 h:mm:ss
- Max. time TC 24 99:59:59 hh:mm:ss
- Repeatability accuracy 100%
- Different trims available (see accessories)

■ müller	Range
TC 14.21	9:59:59 h:mm:ss
TC 24.21	99:59:59 hh:mm:ss

✓ Housing colour



- Digital multifunctional relay
- DIN-rail mounting 35 mm
- Switching capacity 16 A
- Time range 000:00:00:1 to 999:59:59:9 hhh:mm:ss:1/10s

■ müller	Range
MR 28.10 pro	999:59:59:9 hhh:mm:ss:1/10s

✓ Housing colour

Staircase lighting timers



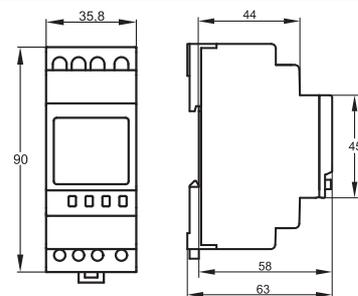
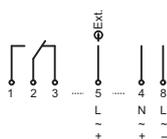
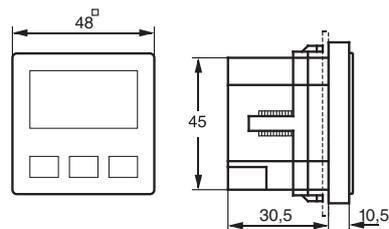
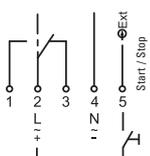
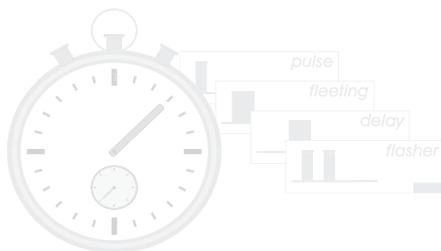
- Manual override for timed or permanent lighting
- 3- or 4-conductor cabling
- Resettable
- Time delay: 284 210: 30 sec. to 10 min.
284 250: 1 min. to 12 min.
- Glow lamp load: up to 100 mA
- 284 250: Advanced warning function included
- Zero-cross switching for relay-saving switching



- Staircase lighting timer
- Electronic
- DIN-rail mounting 17.5 mm
- 3- or 4-conductor rising mains
- Switching capacity 16 A
- Zero-cross switching
- Resettable

■ paladin by müller	Special function	Time delay
284 210		30 sec. to 10 min.
284 250	Advance warning	1 min. to 12 min.

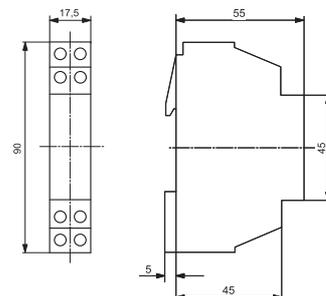
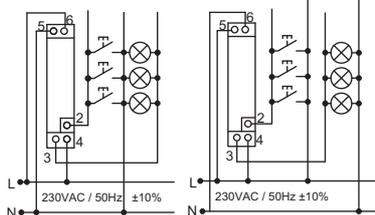
✓ Housing colour



staircase

3-conductor cabling

4-conductor cabling



Twilight switches

Digital twilight switches

- Suitable for modern lamps (LED, CFL, etc.)
- Adjustable lux threshold
- Adjustable delay times
- Adjustable light-hysteresis
- With weekly timer function (e.g. for energy saving)

Analogue twilight switches

- Suitable for modern lamps (LED, CFL, etc.)
- Adjustable lux threshold
- Data security through E²PROM



- Digital twilight switch
- DIN-rail mounting 35 mm
- Switching capacity 16 A
- Adjustable lux threshold 1–50,000 Lux
- Twilight switch with daily and weekly program
- Permanent switchings by date

paladin by müller		Channels
972 413 pro		1
▼ Housing colour		



- Digital twilight switch
- DIN-rail mounting 35 mm
- Switching capacity 16 A
- Adjustable lux threshold 1–50,000 Lux
- Twilight switch with daily, weekly and yearly program
- Permanent switchings by date
- Programmable with PC and Smartphone (see accessories)
- Advanced functionality (e.g. ext. input within 1 channel version)

paladin by müller		Special function	Channels
972 414 pro		External input	1
972 424 pro			2
▼ Housing colour			



- Analogue twilight switch
- Wall mounting
- Switching capacity 16 A
- Adjustable lux threshold 3–300 Lux

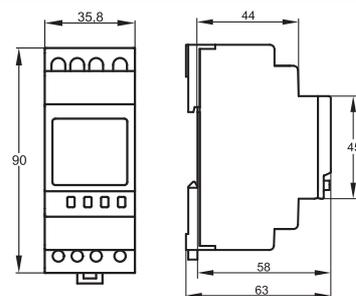
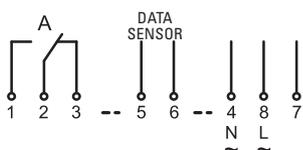
paladin by müller		Channels
922 000		1
▼ Housing colour		



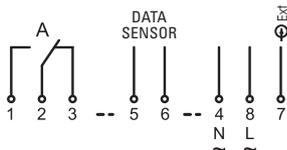
- Analogue twilight switch
- DIN-rail mounting 17.5 mm
- Switching capacity 16 A
- Adjustable lux threshold 1–1,000 Lux

paladin by müller		Sensor	Channels
923 500		sensor for wall mounting	1
923 501		sensor for mounting within housing	1
▼ Housing colour			

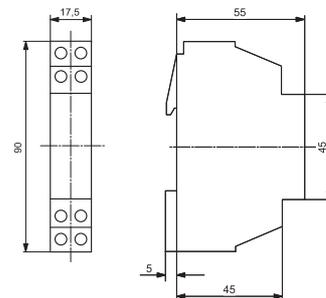
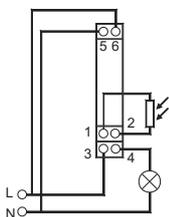
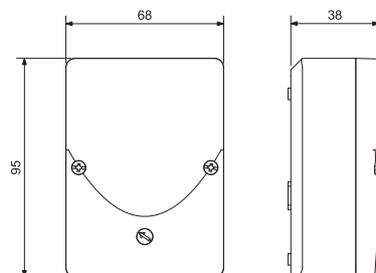
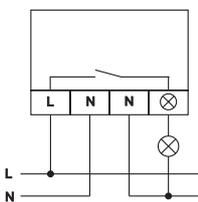
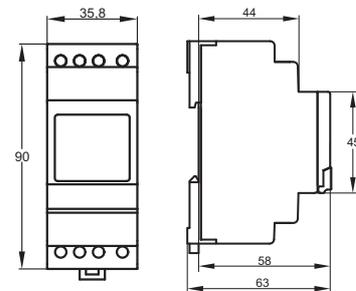
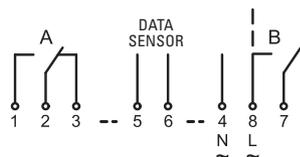
lux



1 channel



2 channels



Dimmers for flush-mounted fitting

- For pushbuttons
- Installation in standard boxes behind a pushbutton possible
- Small design (13 mm)
- Easy to connect
- Memory function
- Protection against overload, short circuit and overheat



- RLC Dimmer
- Flush-mounted fitting
- With litz wires and ferrules
- Load 15–400 W
- Suitable for leading or trailing edge

paladin by müller	Suitable for
873 010 rlc	R, L, C Loads
▼ Housing colour	



- LED Dimmer
- Flush-mounted fitting
- With litz wires and ferrules
- Load leading edge 4–100 W
- Load trailing edge 4–350 W

paladin by müller	Suitable for
873 030 led	LED Loads
▼ Housing colour	



- LED Dimmer without neutral wire
- Flush-mounted fitting
- With litz wires and ferrules
- Load leading edge 4–80 W
- Load trailing edge 4–200 W
- Compensator included in delivery

paladin by müller	Suitable for
873 031 led	LED Loads
▼ Housing colour	



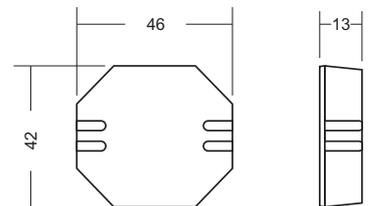
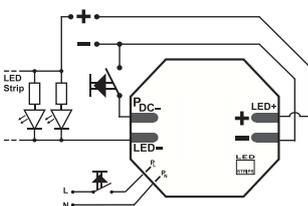
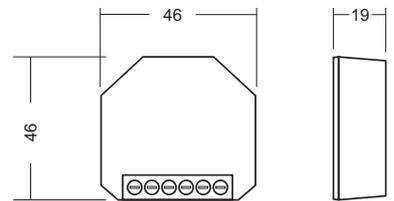
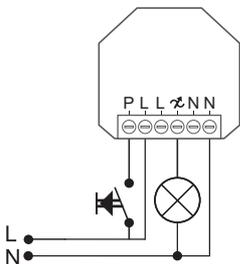
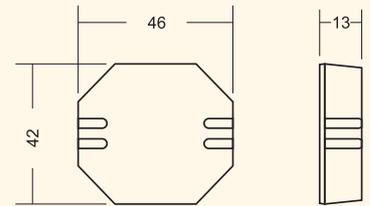
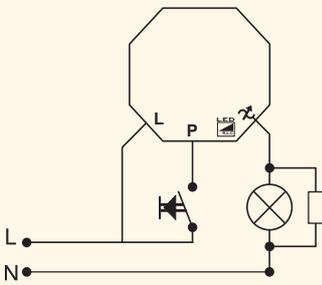
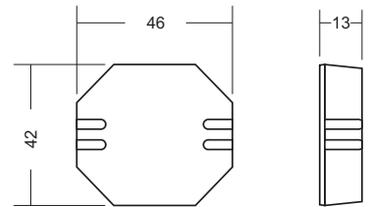
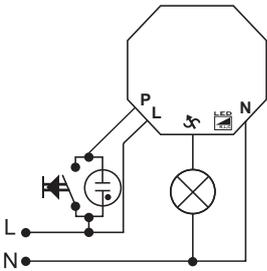
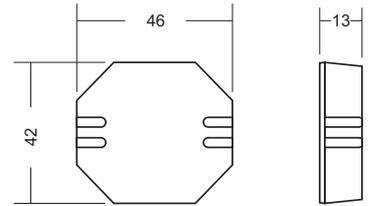
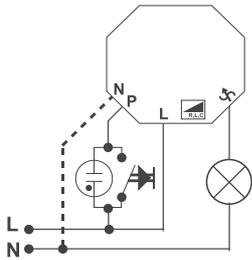
- LED Dimmer
- Flush-mounted fitting
- With screw terminals
- Load leading edge 4–100 W
- Load trailing edge 4–350 W

paladin by müller	Suitable for
872 032 led	LED Loads
▼ Housing colour	



- LED Strips Dimmer
- Flush-mounted fitting
- With litz wires and ferrules
- Pulse Width Modulation technology (PWM) 12-48 V DC
- LED strips up to 8 A
- Amplifier available (see accessories)

paladin by müller	Suitable for
879 040 led	LED Strips
▼ Housing colour	



Dimmers for DIN-rail mounting



- Universal dimmer or TRIAC Dimmer
- Master-Slave-function: With the inclusion of further dimmers higher loads can be controlled with one single pushbutton connection (Master)
- Memory function
- Protection against overload, short circuit and overheat



- LED Dimmer / Universal Dimmer
- DIN-rail mounting 17.5 mm
- LED-Load leading edge 4–100 W
- LED-Load trailing edge 4–350 W

paladin
by müller

Suitable for

872 110 led

LED, R, L, C, CFL Loads

✓ Housing colour



- TRIAC Dimmer for dimmable LED lamp
- DIN-rail mounting 87.5 mm
- Up to 1,200 W peak load per dimmer
- For leading edge
- Further functions for a flexible usage: Potentiometer (internal or external), pushbutton operation, 0–10 V signal

paladin
by müller

Suitable for

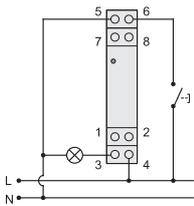
879 410 led

LED Loads

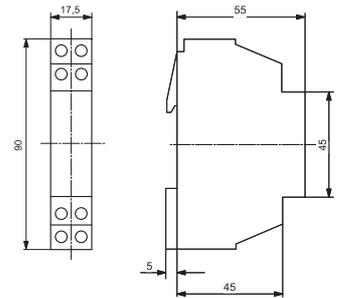
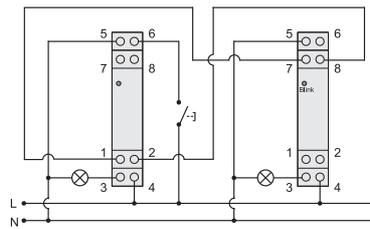
✓ Housing colour



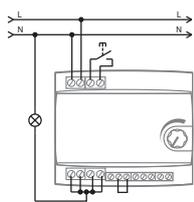
Standard installation



Master-Slave installation

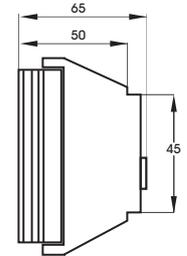
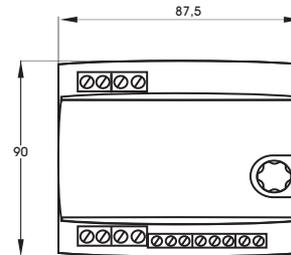


Standard installation



Further installation options

- Operation with pushbutton, includes control of slaves (Master-Slave installation)
- Operation with potentiometer (internal / external)
- Operation with 0-10 V signal
- 3-phase-installation controlled by potentiometer and extension with slaves





KNX-TP Universal interfaces for flush-mounted fitting

- ETS with many advantages:
 - Simple programming and operation
 - Various adjustment and control options
 - Logical, simple and clearly structured software
- Compact housing



- 3 binary inputs (configurable)
- 2 binary outputs (LED drivers / open-collector)
- Integrated room temperature control
- External temperature sensor available (see accessories)

müller	Inputs	Outputs
EA 36.32 knx	3	2
<small>✓ Housing colour</small>		



KNX-TP Time switches for DIN-rail mounting

- ETS with many advantages:
 - Simple programming and operation
 - Various adjustment and control options
 - Logical, simple and clearly structured software
- DCF reception via optional DCF receiver



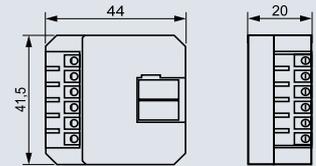
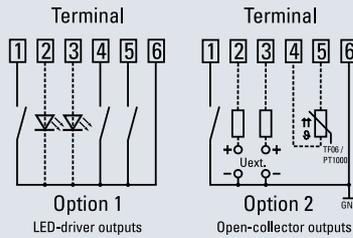
- Digital time switch year
- DIN-rail mounting 70 mm
- 4 channels / 300 memory locations
- Daily, weekly and yearly program
- Programmable with PC and Smartphone (see accessories)
- Data-key function (see accessories)

müller	Channels
SC 98.40 knx	4
<small>✓ Housing colour</small>	



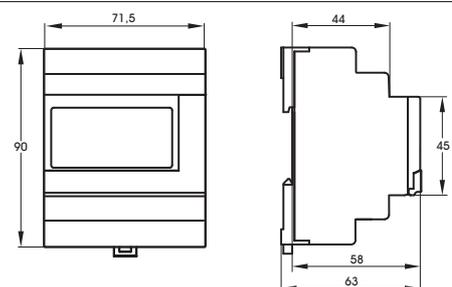
Following functions and data available via KNX bus:

- Binary inputs / push-button interface (switching, dimming, temperature probe/-limiter, etc.)
- Binary outputs
- Temperature sensor/controls



Following functions and data available via KNX bus:

- Time dependent switching (switching, valuator, scene control, HVAC,...)
- Logic gates
- Time standard



KNX-TP Outdoor sensors for wall mounting

- Sensors suitable for outdoor use (IP 54)
- Ideal for use as twilight switches
- Wall mounting



- Light-/brightness sensor
- Lighting control
- Daily time switch

■ müller

Sensor

LS 20.00 knx

Lux

✓ Housing colour



- Light and temperature sensor
- Lighting and temperature control
- Daily time switch

■ müller

Sensor

LS 30.00 knx

Lux, T

✓ Housing colour



- GPS Sensorstation
- Lighting and temperature control
- Daily and astro time switch
- Provides time base to KNX bus

■ müller

Sensor

FU 40.00 knx

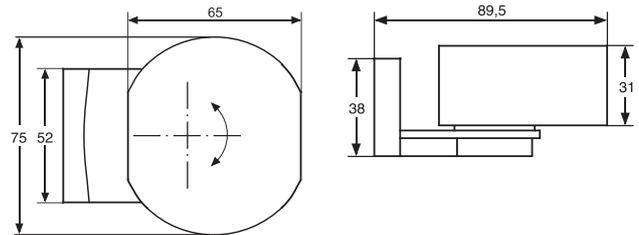
GPS, Lux, T

✓ Housing colour



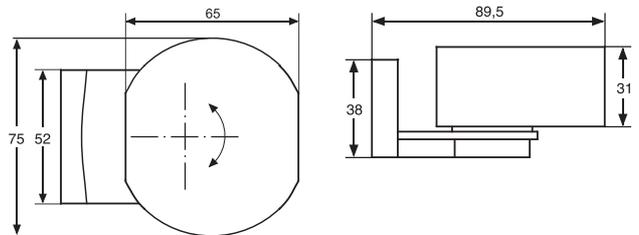
Following functions and data available via KNX bus:

- Time switch (standard)
- Light control



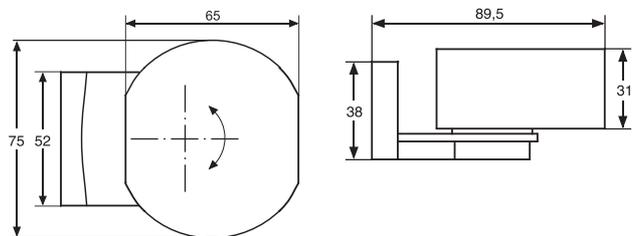
Following functions and data available via KNX bus:

- Time switch (standard)
- Light control
- Temperature control



Following functions and data available via KNX bus:

- Time switch (standard)
- Time switch (astro)
- Light control
- Temperature control
- GPS coordinates and sunlight-data
- Time standard



KNX Room temperature-/room climate controls for wall mounting

- Products for KNX installations
- Room temperature- and room climate controls (air quality sensors) for indoor use
- Compact housing (wall-mounting)
- Various functions and options - configurable via ETS (depending on model):
 - Thresholds for temperature, humidity, CO₂-concentration
 - PI- and 2-point control



TS 31.10 knx

- Temperature control
- Sensor for temperature measurement
- Up to 5 binary and analogue inputs
- Additional function TS 31.10 knx:
Manual adjustment of set-point temperature $\pm 3^{\circ}\text{C}$

müller	Version	Sensor
TS 30.10 knx		T
TS 31.10 knx	T manual $\pm 3^{\circ}$	T

✓ Housing colour



GS 31.10 knx

- Temperature control and hygrostat
- Sensors for temperature, humidity and atmospheric pressure measurement
- Up to 5 binary and analogue inputs
- Additional function GS 31.10 knx:
Manual adjustment of set-point temperature $\pm 3^{\circ}\text{C}$

müller	Version	Sensor
GS 30.10 knx		RH, T
GS 31.10 knx	T manual $\pm 3^{\circ}$	RH, T

✓ Housing colour



GS 41.00 knx

- Air quality sensor / air quality control
- Sensors for CO₂, temperature, humidity and atmospheric pressure measurement
- Additional function GS 41.00 knx:
Manual adjustment of set-point temperature $\pm 3^{\circ}\text{C}$

müller	Version	Sensor
GS 40.00 knx		CO ₂ , RH, T
GS 41.00 knx	T manual $\pm 3^{\circ}$	CO ₂ , RH, T

✓ Housing colour



GS 41.10 knx

- Air quality sensor & control
- Sensors for CO₂, temperature, humidity and atmospheric pressure measurement
- Up to 5 binary and analogue inputs
- Additional function GS 41.10 knx:
Manual adjustment of set-point temperature $\pm 3^{\circ}\text{C}$

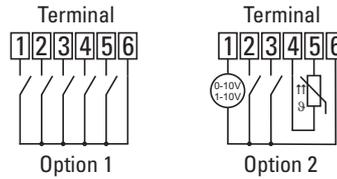
müller	Version	Sensor
GS 40.10 knx		CO ₂ , RH, T
GS 41.10 knx	T manual $\pm 3^{\circ}$	CO ₂ , RH, T

✓ Housing colour

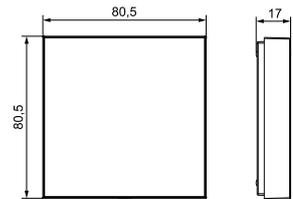


Following functions and data available via KNX bus:

- Temperature control
- Binary and analogue inputs

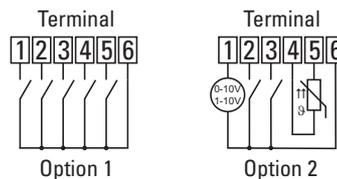


External inputs (binary / analogue)

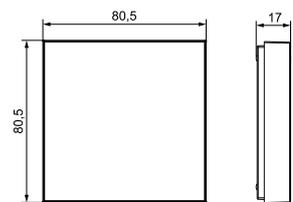


Following functions and data available via KNX bus:

- Temperature control
- Rel. humidity control
- Binary and analogue inputs
- Dewpoint
- Air pressure
- VAV control

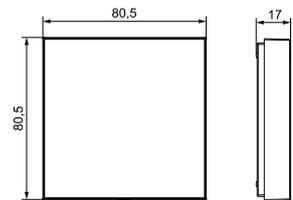


External inputs (binary / analogue)



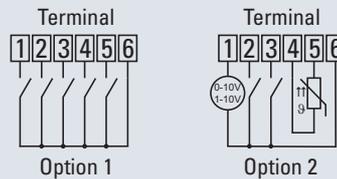
Following functions and data available via KNX bus:

- Temperature control
- Rel. humidity control
- CO₂ control
- Dewpoint
- Air pressure
- VAV control

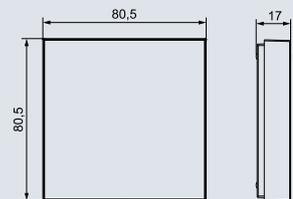


Following functions and data available via KNX bus:

- Temperature control
- Rel. humidity control
- CO₂ control
- Binary and analogue inputs
- Dewpoint
- Air pressure
- VAV control



External inputs (binary / analogue)



KNX-RF compatible switching actuators

- Products for the building automation
- Usable as stand-alone wireless (RF) solution
- Usable in combination with KNX-TP bus via optional gateway
- Easy connection of RF components via push-button linking process (Easy-Mode)
- Included RF-Repeater function
- Switching capacity 16 A



- Switching actuator 1-channel
- DIN-rail mounting 17,5 mm
- Additional function: Timer (3 sec. - 10 min.)
- Additional input for wired push button

paladin
by müller

672 730 rf

▼ Housing colour

Mounting

DIN-rail



- Switching actuator 1-channel/ thermostat
- DIN-rail mounting 17,5 mm
- Control for HVAC applications, adjustable temp. +5...+30°C
- Useable in combination with wireless temperature sensor
- Optionally coupleable with wireless door / window contact
- Optionally coupleable with wireless presence detector

paladin
by müller

672 731 rf

▼ Housing colour

Mounting

DIN-rail



- Switching actuator 1-channel
- Flush-mounted fitting
- Additional function: Timer (3 sec. - 5 min.)
- Additional input for wired push button

paladin
by müller

673 730 rf

▼ Housing colour

Mounting

flush-mounted fitting



- Switching actuator 2-channel / blinds actuator 1-channel
- Recessed ceiling mounting (flush-mounted fitting)
- 2 external inputs for additional wired push buttons

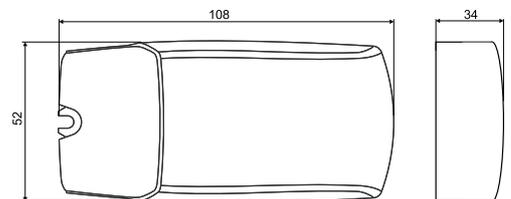
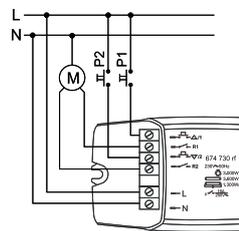
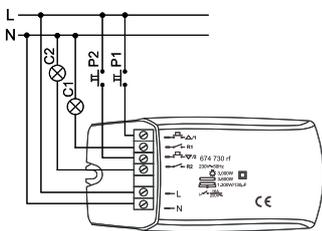
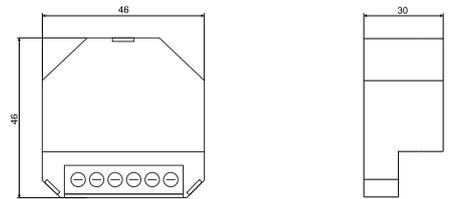
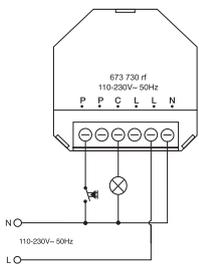
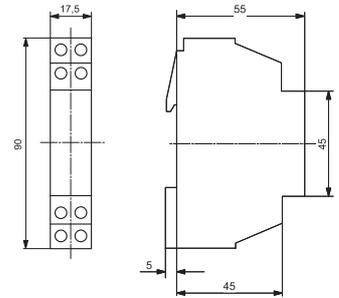
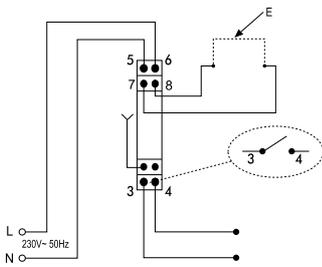
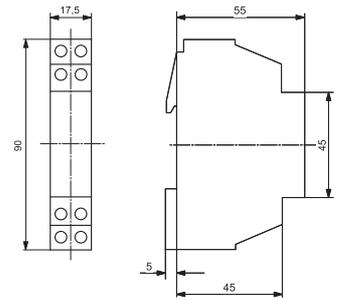
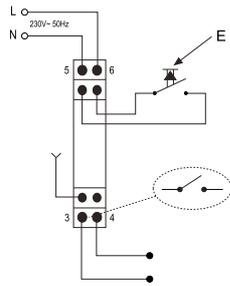
paladin
by müller

674 730 rf

▼ Housing colour

Mounting

Recessed ceiling mounting



KNX-RF compatible wireless dimmers for flush-mounted fitting

- Products for the building automation
- Usable as stand-alone wireless (RF) solution
- Usable in combination with KNX-TP bus via optional gateway
- Easy connection of RF components via push-button linking process (Easy-Mode)
- Integrated RF-Repeater function



LED
RLC

- Dimmer for LED and RLC lamps
- Load leading edge 4–100 W
- Load trailing edge 4–250 W
- Minimum dimming-value adjustable
- Additional input for wired push button

paladin
by müller

suitable for

673 830 rf

RLC & LED

housing colour



LED
STRIPS

- Dimmer for LED strips
- Controls LED strips via pulse width modulation (PWM) 12-48 V DC
- LED strips up to 8 A
- Ideal in combination with transmitter paladin 673 010 rf
- Additional input for wired push button
- Amplifier available (see accessories)

paladin
by müller

suitable for

673 831 rf

LED strips

housing colour



- Dimmer for 1-10 V light control
- Controls up to 100 drivers
- Ideal in combination with transmitter paladin 673 010 rf
- Additional input for wired push button

paladin
by müller

suitable for

673 833 rf

lamps with 1-10 V control input

housing colour



- Dimmer for DALI lamps
- Controls up to 64 drivers
- Minimum dimming-value adjustable
- Additional input for wired push button

paladin
by müller

suitable for

673 834 rf

DALI

housing colour



- Dimmer for RGB LED Strips
- Controls LED STRIPS via pulse width modulation (PWM) 12-48 V DC
- LED STRIPS up to 5 A per channel
- Ideal in combination with transmitter paladin 673 010 rf
- Amplifier available (see accessories)

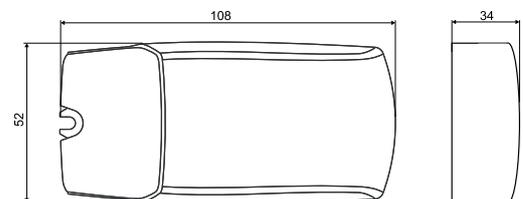
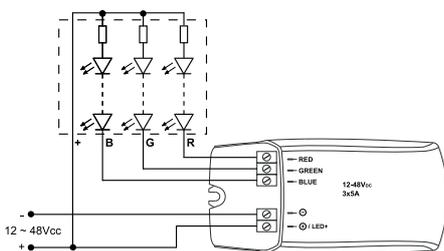
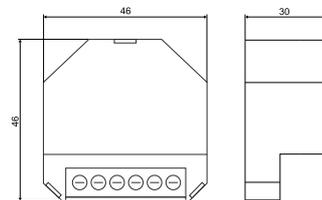
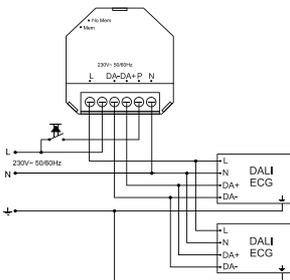
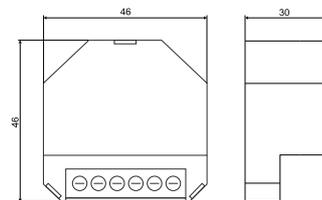
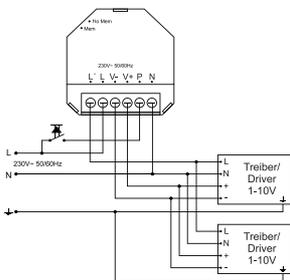
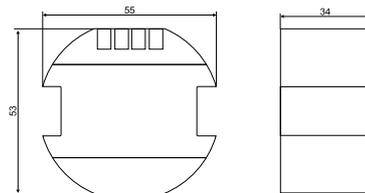
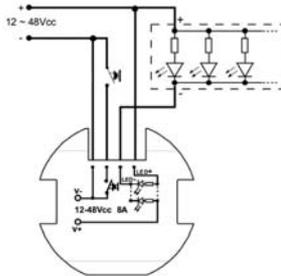
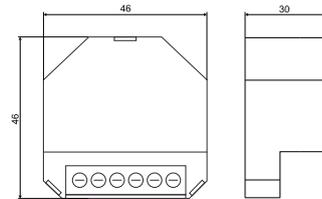
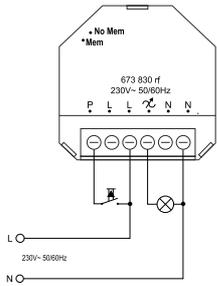
paladin
by müller

suitable for

674 830 rf

RGB LED Strips

housing colour





KNX-RF compatible gateways for flush-mounted fitting

- Products for the building automation
- Easy connection of RF components via push-button linking process (Easy-Mode)
- Integrated RF-Repeater function
- Extensive ETS software



- Gateway / media coupler RF compatible products to KNX-TP
- Connects KNX-TP installations with our KNX-RF compatible products
- Power supply via KNX-Bus
- 16 independant RF-channels

paladin
by müller
673 520 rf
housing colour

Mounting
Flush-mounted fitting



KNX-RF compatible wireless repeaters for flush-mounted fitting

- Products for the building automation
- Usable as stand-alone wireless (RF) solution
- Easy connection of RF components via push-button linking process (Easy-Mode)



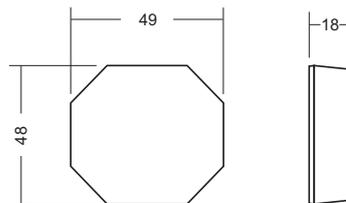
- Signal repeater RF
- Ideal to increase RF range

paladin
by müller
673 620 rf
housing colour

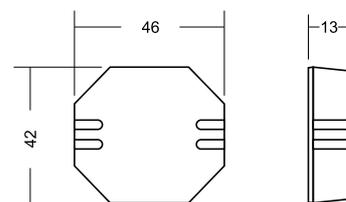
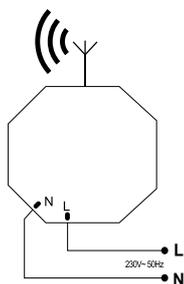
Mounting
Flush-mounted fitting



KNX compatible



KNX compatible



KNX-RF compatible wireless sensors / transmitters

- Products for the building automation
- Usable as stand-alone wireless (RF) solution
- Usable in combination with KNX-TP bus via optional gateway
- Easy connection of RF components via push-button linking process (Easy-Mode)



- Wireless push button / transmitter 1-channel
- Wall mounting / compact housing
- Battery operated (included), battery lifetime ~ 8 years
- Ideal for universal dimmers 673 830 rf, 673 831 rf, 673 833 rf, 673 834 rf, 674 830 rf

paladin by müller	Version
676 010 rf	1-channel
<input checked="" type="checkbox"/> housing colour	



- Wireless remote control / transmitter 5-channel
- Battery operated (included), battery lifetime ~ 8 years
- Ideal for universal dimmers 673 830 rf, 673 831 rf, 673 833 rf, 673 834 rf, 674 830 rf

paladin by müller	Version
670 010 rf	5-channels
<input checked="" type="checkbox"/> housing colour	



- Binary interface / wireless transmitter 1-channel
- Flush-mounted fitting
- Input for two wired push buttons
- Functions: Switching, dimming, blinds control, scene control (scene 1/2)
- Battery operated (included), battery lifetime ~ 8 years

paladin by müller	Version
673 010 rf	1 channel Input for two push buttons
<input checked="" type="checkbox"/> housing colour	



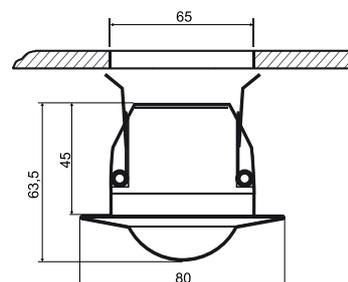
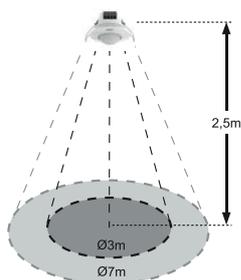
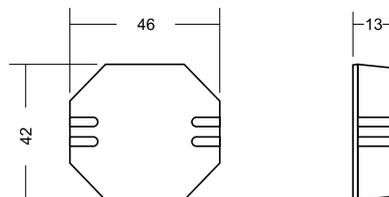
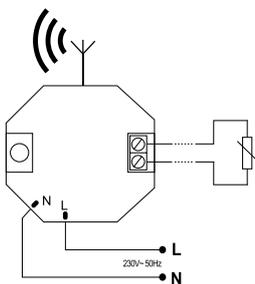
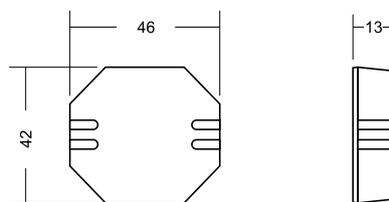
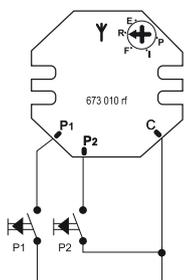
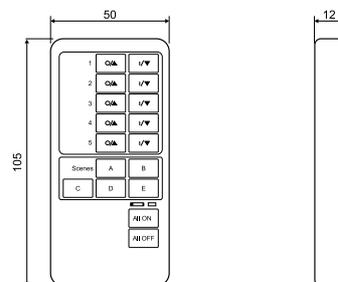
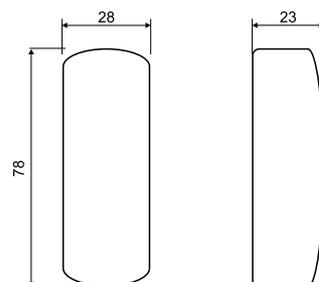
- Temperature sensor with external probe (3 m)
- Flush-mounted fitting
- Measuring range -20°C...+55°C
- Transmission intervall (temperature): 1/min.
- Integrated RF-Repeater function

paladin by müller	Version
673 310 rf	Temperature sensor with external probe
<input checked="" type="checkbox"/> housing colour	



- Motion detector / presence detector
- Flush-ceiling mounting
- Two operating modes
- Coverage area Ø 7 m at 2,5 m height
- Battery operated (included), battery lifetime ~ 4 years

paladin by müller	Version
674 110 rf	Motion / presence detector
<input checked="" type="checkbox"/> housing colour	





KNX-RF compatible wireless sensors / transmitters

- Products for the building automation
- Usable as stand-alone wireless (RF) solution
- Usable in combination with KNX-TP bus via optional gateway
- Easy connection of RF components via push-button linking process (Easy-Mode)
- Battery operated (included)
- Wall mounting



- Door-/ window contact sensor
- Transmission of open / close status change via RF
- Battery lifetime ~ 12 years

paladin by müller		Sensor
676 410 rf		Door-/window contact
▼ housing colour		



- Brightness sensor
- For sun protection applications
- Compatible with blinds control 674 730 rf
- Battery lifetime ~ 8 years

paladin by müller		Sensor
676 210 rf		Lux
▼ housing colour		



676 310 rf

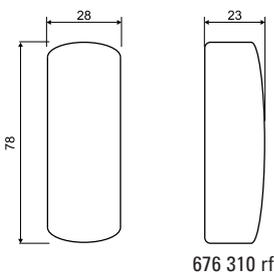
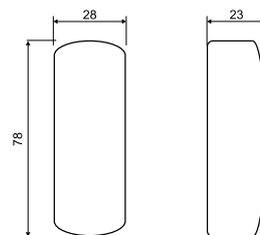
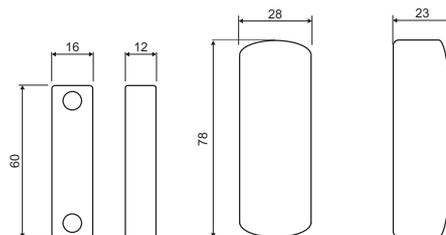
676 311 rf

- Temperature sensor
- Transmission of temperature value via RF
- Battery lifetime ~ 8 years

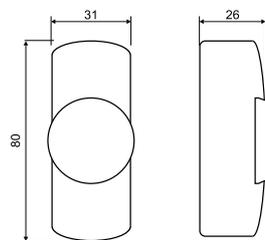
paladin by müller		Version	Sensor
676 310 rf			T
676 311 rf	T manual		T
▼ housing colour			



KNX compatible



676 310 rf



676 311 rf

Air quality sensors

climate

- Detection of the air quality:
 - CO₂ sensor (atmospheric pressure compensated)
 - Relative humidity sensor
 - Temperature sensor
- 3 control outputs (0–10 V) for measured values of CO₂ concentration, rel. humidity and temperature
- Control of the CO₂ concentration via 2 sensor-controlled switching channels (potentialfree NO contacts)
- Control of the rel. humidity via 2 sensor controlled switching channels (potentialfree NO contacts)
- Status and warning indicator LED's



- Air quality sensor
- Wall mounting
- 4 sensor-controlled switching channels
- Switching capacity 8 A
- 0–10 V control outputs

■ müller	Sensor
GS 10.00 pro	CO ₂ , RH, T
<small>✓ Housing colour</small>	

for hour counters, countdown timers and digital time switches SC 24.10 pro



Terminal cover BW 40.88

Order number 003.007

✓ Housing colour



Terminal cover für Bx 70.29

Order number 003.008

Order number 003.010

✓ Housing colour



**Trim 55 x 55
for Bx 40 / TC x4 / SC 24.10 pro**

Order number 190.003

✓ Housing colour



**Mask 72 x 72
for Bx 40 / TC x4 / SC 24.10 pro**

Order number 190.004

✓ Housing colour



**Mask ø 72 (mounting ø 60)
for Bx 40 / TC x4 / SC 24.10 pro**

Order number 190.008

✓ Housing colour

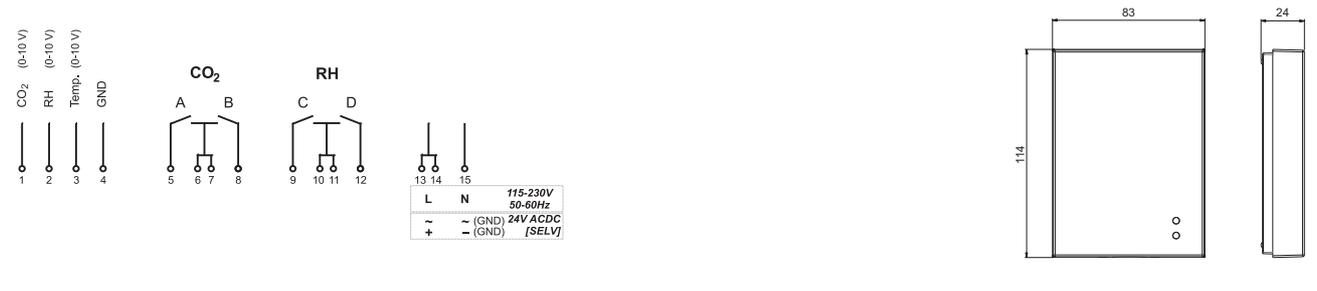


Adapter for BW 40.x8

Order number 692.006

✓ Housing colour

climate



Retaining clip for Bx 40 / TC x4
 Order number 715.003
 Housing colour



Retaining clip for Bx 30
 Order number 715.005
 Housing colour



**Self-adhesive seal (anti-twist protection)
 for Bx 40 / TC x4 / SC 24.10 pro**
 Order number 101.001
 Housing colour



**IP54-Seal
 for Bx 40 / TC x4 / SC 24.10 pro**
 Order number 101.003
 Housing colour



- Data-key
- Accessory for devices of the pro-series and SC 98.40 knx
- Suitable for programming package Save'n carry PP 50.00 pro and PP 60.00 pro

■ müller	Description
DK pro	Data-key
✓ Housing colour	



PP 60.00 pro

- Programming package Save'n carry
- Accessory for devices of the pro-series and SC 98.40 knx
- For easily programming of switching times at your PC or Smartphone (Android, only PP 60.00 pro)

■ müller	Interface
PP 50.00 pro	USB
PP 60.00 pro	USB, Bluetooth
✓ Housing colour	



- Radio receiver DCF-Time
- Accessory for devices of the pro-series and SC 98.40 knx
- Wall mounting
- Connection wire specifications: 2-wire, no shield, variable core cross-section
- Reception and output of the DCF 77 telegram

■ müller
FU 20.00 pro
✓ Housing colour



- Radio receiver GPS-Time
- Accessory for devices of the pro-series and SC 98.40 knx
- Wall mounting
- Connection wire specifications: 3-wire, no shield, variable core cross-section
- Reception and processing of GPS time signal

■ müller	Version
FU 30.00 pro	without power supply
FU 35.00 pro	power supply for DIN-rail included
✓ Housing colour	



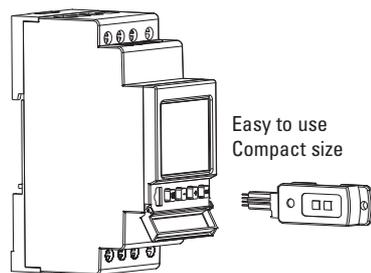
- Amplifier for LED strips
- Flush-mounted fitting
- LED strips up to 8 A
- Combinable with dimmer paladin 873 040 led, 673 831 rf und 674 830 rf

■ paladin by müller	suitable for
873 041 amp	LED strips
✓ Housing colour	

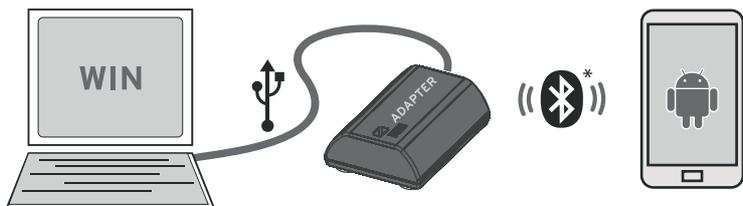


- External temperature sensor / probe TF06
- Connects to analogue input of:
 - GS 4x.10 knx
 - GS 3x.10 knx, TS 3x.10 knx
 - EA 36.32 knx
- Measuring range: -15...+70°C
- Sensor NTC 10 kOhm, nominal length 28 mm, diameter 7,7 mm
- Cable: 4 m PVC/PVC black (H03 VV-F)
- Type of protection: IP 65

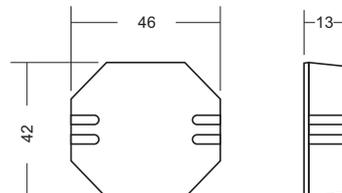
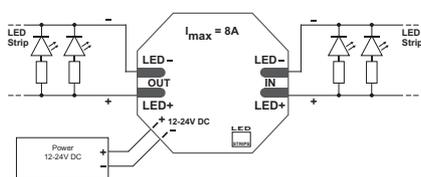
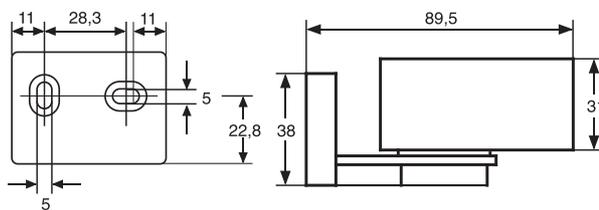
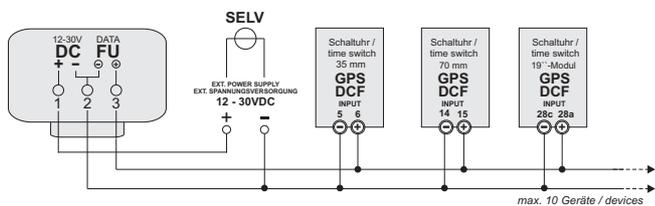
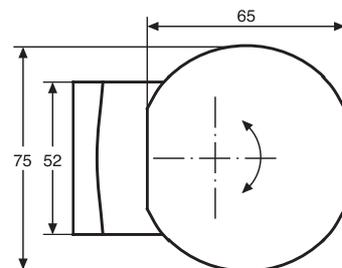
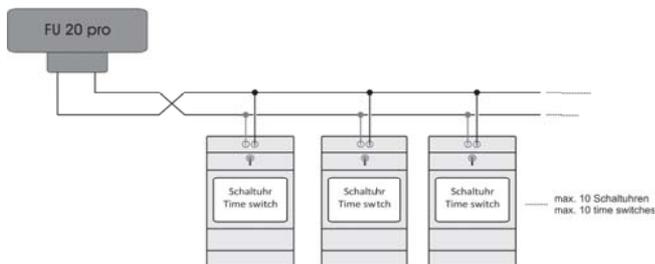
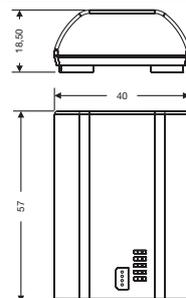
■ müller	Version
TF06	External temperature sensor / probe
✓ Housing colour	



Easy to use
Compact size



* only PP 60.00 pro "Bluetooth"



■ müller

2018 | 2019

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www.hugo-mueller.com

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