

- Analogue and Digital
- Pulse, cycle, holidays and astronomical program versions
- Compact, modular design
- Twilight switches including external light sensor

# High accuracy time control and switching made easy



**EATON**

*Powering Business Worldwide*



Automotive



Aerospace



Truck



Hydraulics



Electrical

# Powering business worldwide

Eaton delivers the power inside hundreds of products that are answering the demands of today's fast changing world.

We help our customers worldwide manage the power they need for buildings, aircraft, trucks, cars, machinery and entire businesses. And we do it in a way that consumes fewer resources.

## Next generation transportation

Eaton is driving the development of new technologies – from hybrid drivetrains and emission control systems to advanced engine components – that reduce fuel consumption and emissions in trucks and cars.

## Higher expectations

We continue to expand our aerospace solutions and services to meet the needs of new aviation platforms, including the high-flying light jet and very light jet markets.

## Powering Greener Buildings and Businesses

Eaton's Electrical Group is a leading provider of power quality, distribution and control solutions that increase energy efficiency and improve power quality, safety and reliability. Our solutions offer a growing portfolio of "green" products and services, such as energy audits and real-time energy consumption monitoring. Eaton's Uninterruptible Power Supplies (UPS), variable-speed drives and lighting controls help conserve energy and increase efficiency.

## Building on our strengths

Our hydraulics business combines localized service and support with an innovative portfolio of fluid power solutions to answer the needs of global infrastructure projects, including locks, canals and dams.

# Modular timers and twilight switches

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# 1 Switches and twilight switches

Timers & Twilight Switches are applied in any residential or commercial buildings wherever automatic control is required on predefined times and/or depending on daylight intensity.

The Eaton range comprises of a wide variety of different products which include analogue Timers, digital Timers, Twilight Switches and Staircase Timers.

These Timers can either be controlled by a 50 Hz net-synchronisation, quartz control and time synchronisation or using the DCF signal or GPS antenna, which guarantees 100% accuracy at all times. Except for net-synchronised timers all units do have self power reserve to secure the time setting and program storage in case a power interruption does occur.

Dedicated computer software and memory cards are available to support the programming of our most advanced timers. Automatic summer and winter time, holiday and random switching programs complete the functionality of our range.

Twilight Switches are supplied with a remote light sensor, which can be easily installed on the outside wall where the required light intensity threshold can be simply adjusted on the modular device itself.

## Technical characteristics (depending on type)

- Modular design.
- Analogue and digital timers.
- Time adjustment by 50 Hz net, quartz control, DCF<sup>1)</sup> or GPS signal reception <sup>2)</sup>.
- Manual override switching function.
- Power reserve for all quartz and DCF or GPS driven switches.
- Remote light sensor for twilight switching.

## Benefits

- Easily programmable on front of device.
- Computer aided programming software available.
- Compact 18 mm design for restricted space opportunities.
- Separate IP40 covers are available for direct wall mounting.
- High level of accuracy.
- Automatic summer and winter time adjustment.
- Holiday & Random program settings.
- High power reserve up to 10 years.

Notes:

<sup>1)</sup> Automatic calculation of sunrise and sunset times throughout the year, including the possibility of astro times + / -2 hour shift.

<sup>2)</sup> The DCF-signal can only be received within a 1000 km radius.

## Universal declaration type coding

### Type coding - analogue switches

TS	Q	D	1NO
TS	S	D	1NO
TS	Q	D	1CO
TS	S	D	1CO
TS	Q	W	1CO

TS = Switch  
 Q / S = Quartz / 50 Hz net-synchronisation  
 D / W = Day / week programme  
 1NO / 1CO = Create / change (contact configuration)

### Type coding - digital switches and accessories

TS	A	DCF
TS	A	GPSKIT
TS	A	MEMKIT
TS	A	MEM

TS = Switch  
 A = Accessory  
 DCF = DCF-antenna  
 GPSKIT = Antenna for GPS signal reception including power supply  
 MEMKIT = Programming software kit  
 MEM = Memory

### Type coding - digital switches

TS	D	W	1CO	-
TS	D	W	2CO	-
TS	D	W	1CO	A
TS	D	W	1CO	DG
TS	D	W	1CO	MIN

TS = Switch  
 D = Digital  
 W = Week programme  
 1CO / 2CO = Exchange / 2 x changeover (contact configuration)  
 A = Astroclock  
 DG = DCF or GPS controlled  
 MIN = Compact 18mm design version

### Type coding - twilight switches

SR	S	D	1NO	-
SR	S	W	1NO	-
SR	C	D	1CO	-
SR	S	D	1CO	W

SR = Twilight switch  
 S / C = With or without sensor  
 D / W = DIN rail mounting / surface mounting  
 1NO / 1CO = Create / change (contact configuration)  
 W = Wide adjustable sensitivity (2 - 50000 lux)

### Technical characteristics (dependant of type)

- Supply voltage 230 V / 50 - 60 Hz (50 Hz for just synchronised versions)
- 50 Hz-mains synchronised or Quartz controlled.
- Daily or weekly programme.
- Manual override switching function.
- Compact 18mm design for restricted space opportunities.

See page 10 for accessories

See page 12 for the technical data for analogue day and 7 day timers.

167391



### Analogue time switches - 50 Hz mains synchronised

#### ■ Standard version

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Type	QPC	Eaton list number
Day	50 Hz-net	1	CO	-	15 min.	52.5 mm	TSSD1CO	1	<b>167391</b>

167389



### Analogue time switches - 50 Hz mains synchronised

#### ■ 18 mm compact design

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Type	QPC	Eaton list number
Day	50 Hz-net	1	NO	-	15 min.	17.5mm	TSSD1NO	1	<b>167389</b>

167390



### Analogue time switches - Quartz controlled

#### ■ Standard version

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Type	QPC	Eaton list number
Day	Quartz	1	CO	200 hrs	15 min.	52.5 mm	TSQD1CO	1	<b>167390</b>

167388



### Analogue time switches - Quartz controlled

#### ■ 18 mm compact design

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Type	QPC	Eaton list number
Day	Quartz	1	NO	3 yrs	15 min.	17.5 mm	TSQD1NO	1	<b>167388</b>

167392



### Analogue weekly timer switches - Quartz controlled

#### ■ Standard version

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Type	QPC	Eaton list number
Week	Quartz	1	CO	200 hrs	2 hrs	52.5 mm	TSQW1CO	1	<b>167392</b>

**Technical characteristics**

- Operating voltage 230 V / 50 - 60 Hz.
- 1 or 2 channel.
- Quartz controlled.
- 3 to 10 year power reserve.
- Weekly programme.
- Manual ON (and depending on type OFF) switching.
- Text-oriented user guidance in display.
- Display back light (switchable).
- Compact 18mm design for restricted space.
- Automatic summer and winter adjustment.
- Holiday programme.
- Zero crossing switching relay for longer life.
- Integrated operating hour counter.
- TSDW1CO, TSDW2CO, TSDW1COA, TSDW1CODG:  
Interface for memory.

See page 10 for accessories

See page 14 for the technical details of digital weekly time switches

167379

**Digital weekly time switches, 1 channel****■ Standard version**

Program range	Type	Channels	Contact configuration	Power reserve	Minimum switching	Programming steps	Width	Type	QCP	Eaton list number
Week	Quartz	1	CO	10 year	1 min.	56	35.8 mm	TSDW1CO	1	<b>167379</b>

167383

**Digital weekly time switches, 1 channel****■ 1TE wide version**

Program range	Type	Channels	Contact configuration	Power reserve	Minimum switching	Programming steps	Width	Type	QCP	Eaton list number
Week	Quartz	1	CO	3 year	1 min.	28	17.5 mm	TSDW1COMIN	1	<b>167383</b>

167382

**Digital weekly time switches, 1 channel****■ 1TE wide version**

Program range	Type	Channels	Contact configuration	Power reserve	Minimum switching	Programming steps	Width	Type	QCP	Eaton list number
Week	Quartz, DCF / GPS	1	CO	10 year	1 sec.	84	35.8 mm	TSDW1CODG	1	<b>167382</b>

167381

**Digital weekly time switches, 1 channel****■ Astronomical**

Program range	Type	Channels	Contact configuration	Power reserve	Minimum switching	Programming steps	Width	Type	QCP	Eaton list number
Week	Quartz with astronomical	1	CO	10 year	1 min.	42	36 mm	TSDW1COA	1	

167380



## Digital week timers, 2 channels

### ■ Standard version

Program range	Type	Channels	Contact configuration	Power reserve	Power reserve	Min. cycling time	Width	Type	QPC	Eaton list number
Week	Quartz	2	2 x CO	10 year	1 min.	56	35.8 mm	TSDW2CO	1	<b>167380</b>

**Technical characteristics**

- Operating voltage 220 - 240 V / 50 - 60 Hz.
- 1 channel.
- Controlled by external light sensor (supplied).
- Built-in time delay included for unwanted switching e.g. due to car lamp influences (adjustable to type SRSD1COW and SRCD1CO).
- Switching status indication.
- Adjustable light intensity level.

**SRCD1CO**

- Manual ON and OFF switching.
- Back lit display.
- Automatic summer and winter time adjustment.
- Holiday programme.
- Zero crossing switching relay for longer life.
- Integrated operating hour counter.
- Memory interface.
- Test function.

See page 10 for accessories

See page 16 for the technical details for twilight switch (and combination with timer).

167375

**Twilight switches for DIN rail mounting**■ **18 mm compact design**

Description	Channels	Adjustable sensitivity	Contact configuration	Width	Type	QPC	Eaton list number
Twilight switch with light sensor	1	2 - 100 lux	NO	17.5 mm	SRSD1NO	1	<b>167375</b>

167378

**Twilight switches for DIN rail mounting**■ **Advanced version, 1 channel**

Description	Channels	Adjustable sensitivity	Contact configuration	Width	Type	QPC	Eaton list number
Twilight switch with light sensor	1	2 - 50.000 lux	CO	54 mm	SRSD1COW	1	<b>167378</b>

167377

**Twilight switches for DIN rail mounting**■ **Combined version**

Program range	Channels	Adjustable sensitivity	Contact configuration	Width	Type	QPC	Eaton list number
Week	1	2 - 2.000 lux	CO	72 mm	SRCD1CO	1	<b>167377</b>

## Technical characteristics

- Operating voltage 220 - 230 V / 50 - 60 Hz.
- 1 channel.
- Integrated light sensor.
- Time delay included for unwanted switching (e.g. due to car lamp influences).
- Back or bottom cable entry.
- Adjustable light intensity on the outside.
- Large light level (180 degrees).
- Test button.
- Adjustable light intensity level.
- Degree of protection: IP55.

See page 10 for accessories.

See page 16 for the technical details for timer and twilight switches.

167376



## Twilight switch for surface mounting

■ 1 channel

Program range	Channels	Adjustable sensitivity	Contact configuration	Width	Type	QPC	Eaton list number
Week	1	2 - 2.000 lux	CO	85 mm	SRSW1NO	1	<b>167376</b>

# 6

## Accessories

For timers and twilight switches

167384



### Antenna for DCF signal reception

- By using DCF reception 100% accuracy is obtained. A DCF antenna is required to be mounted on an outside wall. The DCF signal reception is only operable when the timer is connected to the remote DCF antenna and fed by a DCF power supply.
- DCF antenna for digital TSDW1CODG.

Description	Type	QPC	Eaton list number
DCF-antenna	TSADCF	1	<b>167384</b>

# 6

167385



### Antenna includes power supply for GPS signal reception

- Antenna includes power supply for TSDW1CODG.

Description	Type	QPC	Eaton list number
Antenna for GPS signal reception, includes power supply	TSAGPSKIT	1	<b>167385</b>

167386



### Programming software kit

- For SRCD1CO, TSDW1CO, TSDW2CO, TSDW1COA, TSDW1CODG.

Description	Type	QPC	Eaton list number
Programming software kit including adaptor cable, software and memory card	TSAMEMKIT	1	<b>167386</b>
Memory card	TSAMEM	1	<b>167387</b>

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## Analogue day and week timers, technical data

Analogue time switches	TSSD1C0	TSSD1N0	TSQW1C0	TSQD1C0	TSQD1N0
<b>General</b>					
Operating voltage	110 - 230V AC	230 V AC	110 - 230 V AC	110 - 230 V AC	230 - 240 V AC
Frequency	50 Hz	50 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Stand-by power	0.9 W	0.9 W	0.5 W	0.5 W	0.5 W
Time control	Net	Net	Quartz	Quartz	Quartz
Accuracy	Volgens net	Volgens net	± 1 sec. / day	± 1 sec. / day	± 1 sec. / day
Power reserve	-	-	200 hrs / 100 hrs at 110 V	200 hrs / 100 hrs at 110 V	±3 days
Battery type	-	-	NiMH	NiMH	NiMH
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20
Ambient temperature	-20 °C...+55 °C	-25 °C...+50 °C	-20 °C...+55 °C	-20 °C...+55 °C	-10 °C...+55 °C
Protection class (EN 60730-1)	II	II	II	II	II

## Switching contact(s)

Type of switching contact	1 x CO	1 x NO	1 x CO	1 x CO	1 x CO
Switching capacity at 250 V~, cos = 1	16 A	16 A	16 A	16 A	16 A
Switching capacity at 250 V~, cos = 0,6	4 A	4 A	4 A	4 A	4 A

## Programming features

Period of program	Day	Day	Week	Day	Day
Number of channels	1	1	1	1	1
Minimum cycle time	15 min.	15 min.	2 hrs	15 min.	15 min.
Programmable	Programmable 15 min.	Programmable 15 min.	Programmable 2 hrs	Programmable 15 min.	Programmable 15 min.
Program steps	96	96	84	96	96
Manual / Hand / Permanent switching <sup>1)</sup>	On, Off, Auto	On, Off, Auto	On, Off, Auto	On, Off, Auto	On, Off, Auto
Switching status indication	x	x	x	x	x

## Dimensions and weight

Number of module width	3	1	3	3	1
Dimensions	Width	52.5 mm	17.5 mm	52.5 mm	52.5 mm
	Height	90 mm	90 mm	90 mm	90 mm
	Depth	65.5 mm	65.5 mm	65.5 mm	65.5 mm
Mounting	DIN-rail	DIN-rail	DIN-rail	DIN-rail	DIN-rail

## Terminals

Terminal screw size	M3.5	M3.5	M3.5	M3.5	M3.5
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<sup>1)</sup> Remark

ON = Permanent ON

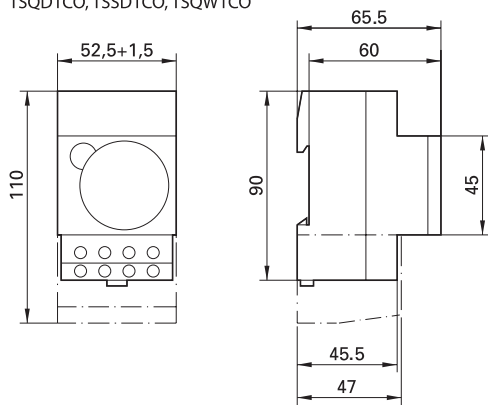
OFF = Permanent OFF

Hands = ON or OFF. valid until next program cycle overrules

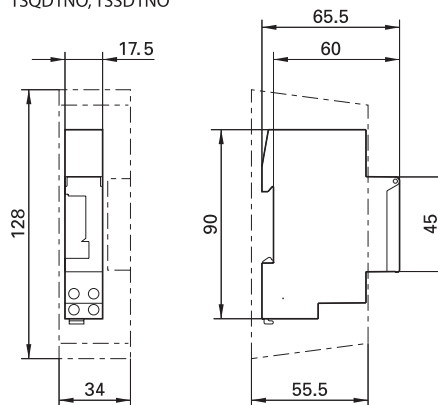
Auto = According program

**Analogue daily and weekly timers, dimensional drawings**

TSQD1CO, TSSD1CO, TSQW1CO

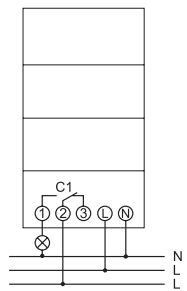


TSQD1NO, TSSD1NO

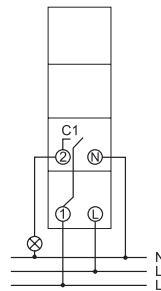


**Analogue daily and weekly time switches, wiring diagrams**

TSQD1CO, TSSD1CO, TSQW1CO



TSQD1NO, TSSD1NO



## Digital week timers, technical details

Digital timers -  
week programme

	TSDW1CO	TSDW1COMIN	TSDW2CO	TSDW1COA	TSDW1CODG
<b>General</b>					
Nominal operating voltage	230 - 240 V AC	230 V AC	230 - 240 V AC	230 - 240 V AC	230 - 240 V AC
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Stand-by power	0,8 W	0,4 W	0,8 W	0,8 W	1,4 W
Time base control <sup>1)</sup>	Quartz	Quartz	Quartz	Astro	Quartz of DCF / GPS
Accuracy	± 0,5 sec. / day	± 1 sec. / day	± 0,5 sec. / day	± 0,5 sec. / day	± 0,5 sec. / day
Power reserve	10 year	3 year	10 year	10 year	10 year
Type of battery	Lithium	Lithium (exchangeable)	Lithium	Lithium	Lithium
Protection class (acc. EN 60529)	IP20	IP20	IP20	IP20	IP20
Permissible ambient temperature	-30 ∞C...+55 ∞C	-10 ∞C...+50 ∞C	-30 ∞C...+55 ∞C	-30 ∞C...+55 ∞C	-30 ∞C...+55 ∞C
Protection class at proper installation (acc. EN 60730-1)	II	II	II	II	II

## Switching contact(s)

Type of switching contact	1 x CO	1 x CO	2 x CO	1 x CO	1 x CO
Switching capacity at 250 V~, cosφ = 1	16 A	16 A	16 A	16 A	16 A
Switching capacity bij 250 V~, cosφ = 0,6	10 A	6 A	10 A	10 A	10 A
Switching capacity for lighting					
- Incandescent lamp	2600 W	1000 W	2600 W	2600 W	2600 W
- Halogen lamp	2600 W	1000 W	2600 W	2600 W	2600 W

## Programming features

Period of programme	Week	Week	Week	Week	Week
Number of channels	1	1	2	1	1
Minimum switching capacity	10 mA	-	10 mA	10 mA	-
Minimum cycle time	1 min.	1 min.	1 min.	1 min.	1 sec.
Maximum programming steps in memory	56	28	56	54	84
Summer / wintertime automatic (or manual on/off)	Yes	Yes	Yes	Yes	Yes
Random programme	No	No	No	No	Yes (2)
Holiday programme	Yes	No	Yes	Yes	Yes
Cycle programme	No	No	No	No	Yes
Astro function	No	No	No	Yes	No
Pulse switching	No	No	No	No	Yes
Manual switching <sup>2)</sup>	On, Off, Auto	On, Off, Auto	On, Off, Auto	On, Off, Auto	On, Off, Auto
LCD backlighting	Yes	-	Yes	Yes	Yes
PIN code	Yes	Yes	Yes	Yes	Yes

## Dimensions and weight

Number of module width		2	1	2	2	2
Dimensions	Width	35.8 mm	17.5 mm	35.8 mm	35.8 mm	35.8 mm
	Height	90.1 mm	90 mm	90.1 mm	90.1 mm	90.1 mm
	Depth	69.2 mm	65.5 mm	69.2 mm	69.2 mm	69.2 mm
Mounting		DIN-rail	DIN-rail	DIN-rail	DIN-rail	DIN-rail

## Terminals

Terminal type	Spring	Screw	Spring	Spring	Spring
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<sup>1)</sup> Remark:

Astro function: Automatic calculation of sunrise and sunset times

DCF / GPS: Time synchronization is possible by connecting external antenna (TSADCF of TSAGPSKIT).

<sup>2)</sup> Remark:

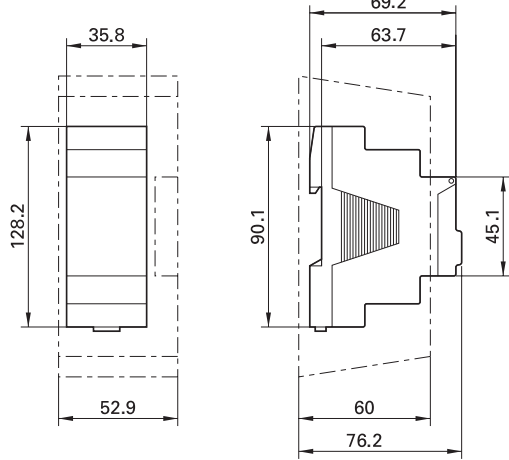
ON = Permanent ON

OFF = Permanent OFF

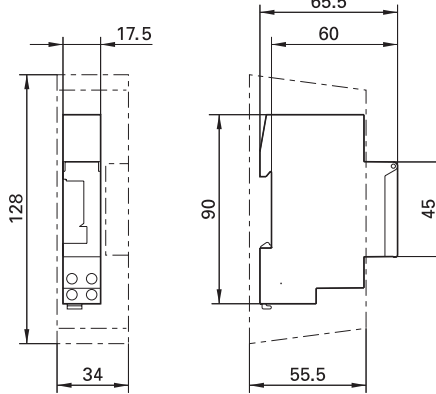
Auto = According Programme

Digital weekly time switches, dimensional drawings

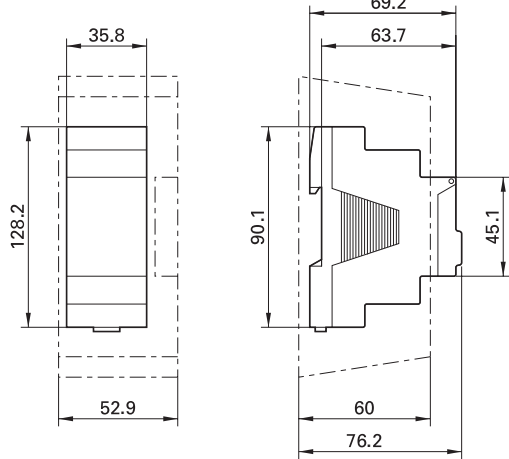
TSDW1CO, TSDW2CO



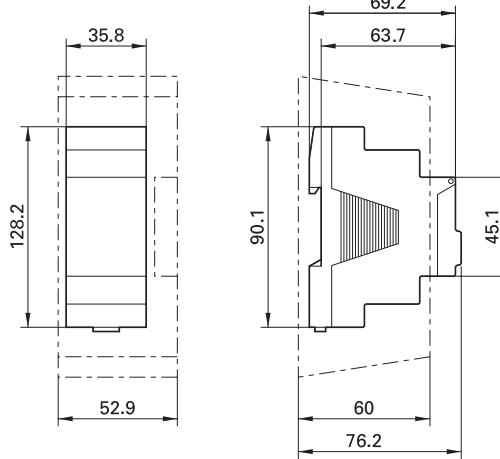
TSDW1COMIN



TSDW1COA

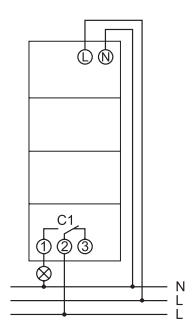


TSDW1CODG

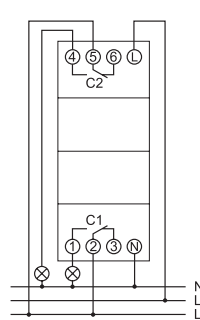


Digital weekly timers, wiring diagrams

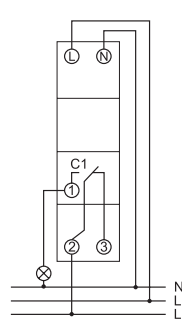
TSDW1CO



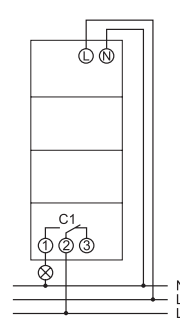
TSDW2CO



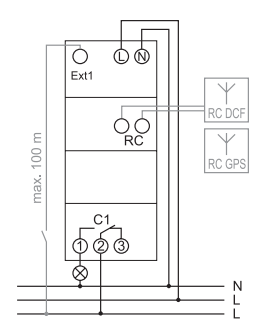
TSDW1COMIN



TSDW1COA



TSDW1CODG



## Twilight switches and combination with timer, technical data

Twilight switches + combination with timer	SRSD1N0	SRSD1C0W	SRCD1C0	SRSW1N0
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### General

Nominal operating voltage	220 - 240 V AC	220 - 240 V AC	220 - 240 V AC	220 - 230 V AC
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Stand-by power	0,8 W	1,3 W	1,3 W	0,6 W
Photosensitivity	2 - 100 lux	2 - 50.000 lux	2 - 2.000 lux	2 - 2.000 lux
Maximum cable length for sensor	25 mtr.	100 mtr.	100 mtr.	-
Maximum cable length for sensor	-25 ∞C...+50 ∞C	-30 ∞C...+55 ∞C	-30 ∞C...+55 ∞C	-35 ∞C...+55 ∞C
Protection class at proper installation - modular device	II	II	II	II

### Switching contact(s)

Type of switching contact	1 x NO	1 x CO	1 x CO	1 x NO
Contact type	Floating	Floating Floating (not for SELV)	Floating	230 V
Switching capacity at 250 V~, cos φ = 1	16 A	16 A	16 A	16 A
Switching capacity at 250 V~, cos φ = 0,3	-	-	10 A	10 A
Maximum lamp load:				
- Incandescent lamp	2300 W	3600 W	2600 W	2300 W
- Energy saving lamp	9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W	34 x 7 W, 27 x 11 W, 24 x 15 W, 22 x 23 W	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W	9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W
- Fluorescent lamp load - single fitting uncompensated (inductive)	2300 VA	3600 VA	2300 VA	2300 VA
Switching delay off	20 sec.	0 - 20 min.	0 - 59 min.	2 - 100 sec.
Switching status indication (not delayed)	Yes	Yes	-	Yes

### Programming features

Period of programme	-	-	Week	-
Number of channels	-	-	1	-
Programming using software and memory	-	-	Yes	-
Summer / wintertime automatic (or manual on/off)	-	-	Yes	-
Random programme	-	-	No	-
Holiday programme	-	-	Yes	-
Cycle programme	-	-	No	-
LCD backlighting	-	-	Yes	-

### Dimensions and weight

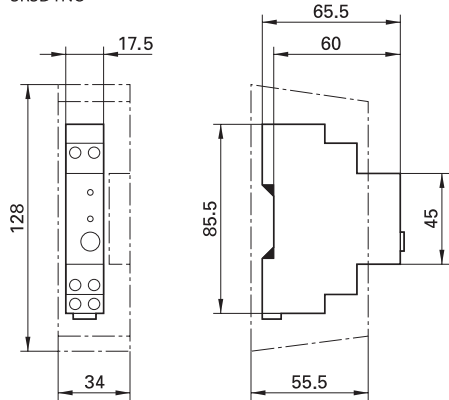
Number of module width	1	2	3	-
Dimensions	Width	17.5 mm	54 mm	72 mm
	Height	85.5 mm	86 mm	86 mm
	Depth	65.5 mm	65.5 mm	65.5 mm
				85 mm
				118.4 mm
				49.4 mm

### Terminals

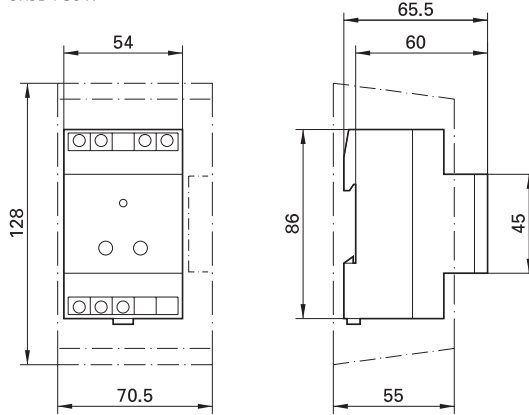
Terminal type	Screw	Spring	Spring (duo fix)	-
---------------	-------	--------	------------------	---

Twilight switches and combinations with timer, dimensional drawings

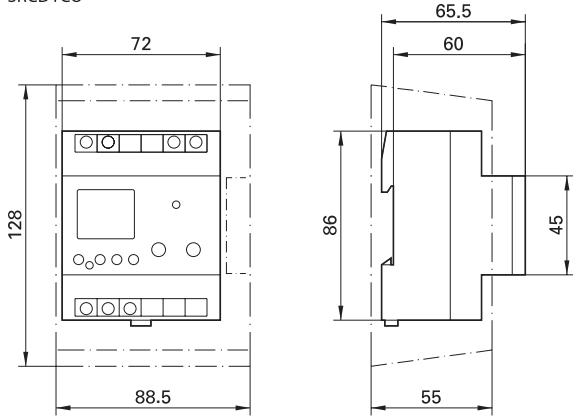
SRSD1NO



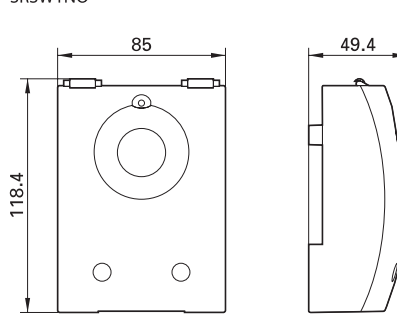
SRSD1COW



SRCD1CO

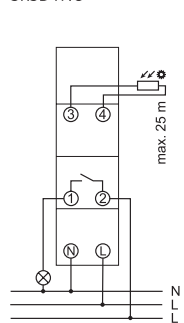


SRSW1NO

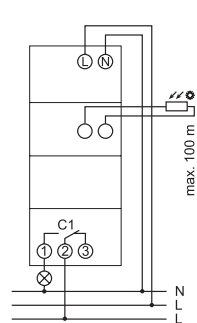


Twilight switches and combinations with timer, wiring diagrams

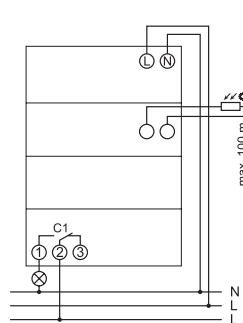
SRSD1NO



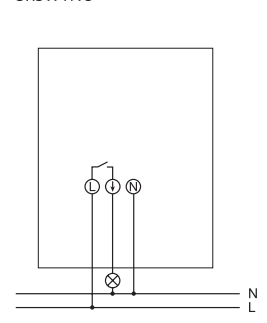
SRSD1COW



SRCD1CO



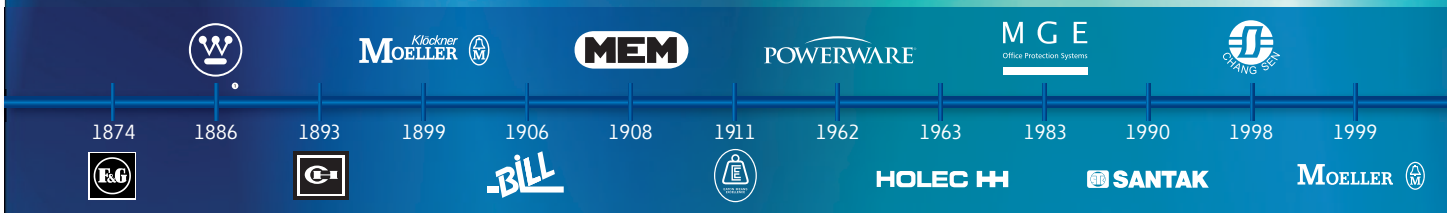
SRSW1NO



167375.....	SRSD1NO .....	8
167376.....	SRSW1NO .....	9
167377.....	SRCD1CO .....	8
167378.....	SRSD1COW .....	8
167379.....	TSDW1CO .....	6
167380.....	TSDW2CO .....	7
167381.....	TSDW1COA .....	6
167382.....	TSDW1CODG .....	6
167383.....	TSDW1COMIN .....	6
167384.....	TSADCF .....	10
167385.....	TSAGPSKIT .....	10
167386.....	TSAMEMKIT .....	10
167387.....	TSAMEM .....	10
167388.....	TSQD1NO .....	5
167389.....	TSSD1NO .....	5
167390.....	TSQD1CO .....	5
167391.....	TSSD1CO .....	5
167392.....	TSQW1CO .....	5

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## The power of fusion.



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