

TOP-TECHNIC

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■ REMOTE SWITCH FOR DIN RAIL MOUNTING



■ STAIRCASE TIMER, SERIES TIMON



■ REG ROTARY DIMMER 1200 UNI FOR DIN RAIL MOUNTING



■ DIGITAL DAY/WEEK TIMER 1 CO, 16A



■ DIGITAL PHOTOELECTRIC SWITCH, 1 CO



■ DIGITAL ASTRO- AND YEAR TIME SWITCH, 4 CO

“Energy is never lost.”

Hermann Ludwig Ferdinand von Helmholtz,
German physician and physicist

CONTROL- AND SIGNALING DEVICES, ACCESSORIES, DIN RAIL MOUNTING

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ON-OFF SWITCH, SERIES A, 40 A, 63 A



BM900011/BM900012/BM900013/BM900018

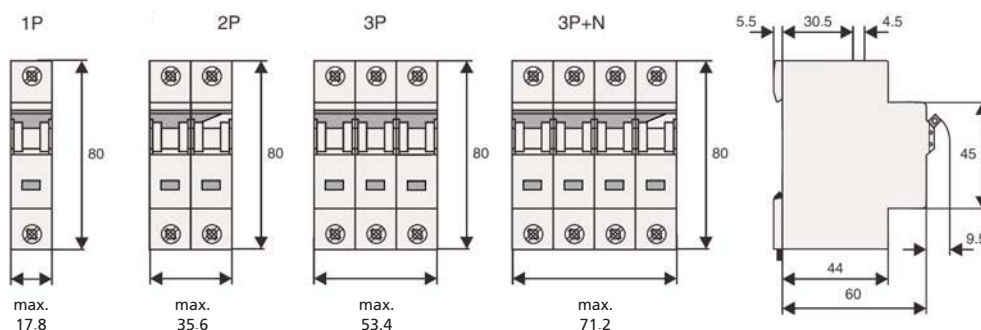
SCHRACK INFO

- Design complies with IEC/EN 60 947-, -3
- Finger and hand touch safe VBG 4, OVE-EN 6
- Mounting system: Special snap-on mounting for DIN rail EN 50 022
- Contact position indicator with coloured (red/green) window
- Accessories of BMS0/BMS6/BMS4 can be used

TECHNICAL DATA

Rated voltage/frequency:	230/400 V AC, 50/60 Hz
Rated insulation voltage U_i :	440 V AC
Rated surge voltage U_{imp} :	4 kV (1.2/50 μ s)
Terminal cross-section:	1-25 mm ²
Terminal screws:	M5 (Pozidriv)
Terminal tightening torque:	max. 2.4 Nm

DIMENSIONS



RATED CURRENT/NO. POLES	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
40 A/1-pole	1	12	A 40/1	9004840403114		BM900011
40 A/2-pole	2	6	A 40/2	9004840403121		BM900012
40 A/3-pole	3	4	A 40/3	9004840403138		BM900013
40 A/3+N-pole	4	3	A 40/3N	9004840403183		BM900018
63 A/1-pole	1	12	A 63/1	9004840403145		BM900014
63 A/2-pole	2	6	A 63/2	9004840403152		BM900015
63 A/3-pole	3	4	A 63/3	9004840403169		BM900016
63 A/3+N-pole	4	3	A 63/3N	9004840403176		BM900019



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MAIN LOAD-BREAK SWITCH (ISOLATOR), DIN RAIL-MOUNTED, SERIES IA



BZ900241/BZ900242/BZ900243/BZ900244

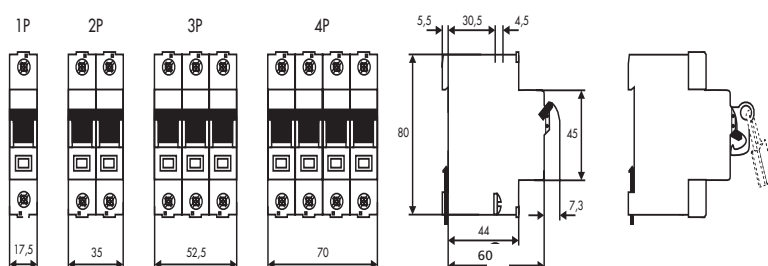
SCHRACK INFO

- Suitable as main switch with isolating function
- Load-break switch for continuous operation
- Sealing and locking possible with accessories
- Can be used to switch motors and highly inductive loads

TECHNICAL DATA

Rated voltage/frequency:	230/400 V, 50/60 Hz; 240/415 V AC, 50/60 Hz – ME Version
Rated surge voltage protection U_{imp} :	6 kV
Rated short-time current protection I_{cw} :	2,000 A
Rated short-circuit switching capacity I_{cm} :	2,800 A
Max. permissible back-up fuse:	125 A
High rated isolation voltage:	$U_i = 690$ V
Rated current:	Utilisation category AC 23/40/63/63/63/63 A Utilisation category AC 22/40/63/80/100/125 A
Terminal cross-section:	2.5 – 50 mm ²
Terminal tightening torque:	2.5 – 5 Nm
Fits rails:	RCCB and MCB

DIMENSIONS



RATED CURRENT/NO. POLES	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
40 A/1-pole	1	12	IA 1/40	9004840406016		BZ900241
40 A/2-pole	2	6	IA 2/40	9004840406023		BZ900242
40 A/3-pole	3	4	IA 3/40	9004840406030		BZ900243
40 A/4-pole	4	3	IA 4/40	9004840406047		BZ900244
63 A/1-pole	1	12	IA 1/63	9004840406054		BZ900261
63 A/2-pole	2	6	IA 2/63	9004840406061		BZ900262
63 A/3-pole	3	4	IA 3/63	9004840406078		BZ900263
63 A/4-pole	4	3	IA 4/63	9004840406085		BZ900264
80 A/3-pole	3	4	IA 3/80	9004840406115		BZ900283
80 A/4-pole	4	3	IA 4/80	9004840406122		BZ900284
100 A/1-pole	1	12	IA 1/100	9004840406146		BZ900201
100 A/2-pole	2	6	IA 2/100	9004840406153		BZ900202
100 A/3-pole	3	4	IA 3/100	9004840406160		BZ900203
100 A/4-pole	4	3	IA 4/100	9004840406177		BZ900204
125 A/3-pole	3	4	IA 3/125	9004840406207		BZ900223
125 A/4-pole	4	3	IA 4/125	9004840406214		BZ900224
Switch interlock	-	1	-	9004840260892		BS900285



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REMOTE SWITCH STELLA



LQ540000

SCHRACK INFO

- Low switching noise
- Energy saving function 0.5 – 30 minutes
- High switching capacity, 80 A start-up peak
- LED display

APPLICATIONS

- The ideal solution for cellar lights in multi-family houses

FEATURES

Electronic remote switch with energy saving function. Pressing a button switches the light on or off. Should the light not be turned off in the set time, it is switched off automatically by the energy saving function. The control input allows the connection of pushbuttons with up to 100 mA glow lamp load and enables the application in 3- or 4-wire circuits.

TECHNICAL DATA

TIME RANGES:

Delay

Adjustment range 0.5 - 30 min

INDICATORS:

Green LED ON

Indication of supply voltage

Yellow LED ON/OFF

Position of output relay

MECHANICAL DESIGN:

Housing

Made of self-extinguishing plastic, IP rating IP40

Mounting

on DIN rail TS 35 according to EN 60715

Shockproof terminal connection according to VBG 4 (PZ1 required)

IP rating IP20

TERMINALS:

Tightening torque

Max 1 Nm

Terminal capacity

1 x 0.5 to 2.5 mm² with/without multicore cable end
2 x 0.5 to 1.5 mm² with/without multicore cable end
1 x 4 mm² without multicore cable end
2 x 2.5 mm² flexible without multicore cable end

INPUT CIRCUIT:

Supply voltage

Terminals L - N

Nominal voltage

230 V AC / 50/60 Hz

Tolerance

-15% to +10%

Rated consumption

2 VA (1.0 W)

Nominal frequency

AC 48 to 63 Hz

Duty cycle

100%

Reset time

500 ms

Drop-out voltage

>30%

Overvoltage category

III (according to IEC 60664-1)

Rated surge voltage

4 kV

TECHNICAL DATA – continued

OUTPUT:

1 normally open contact	Terminals L - 18
Rated voltage	250 V AC
Switching capacity	10 A continuous current
Switching capacity	16 A continuous current
Start-up peak (20 ms)	80 A
Mechanical life	30 x 10 ⁶ operations
Electrical life	Resistive load: 10 ⁵ operations at 16 A 250 V Lamp load: 80,000 operations at 1000 W 250 V

CONTROL INPUT B1:

Connection not potential-free	Pushbutton B1-N (3-conductor circuit) Pushbutton B1-L (4-conductor circuit)
Glow lamp load	Max. 100 mA parallel to the pushbuttons
Overload protection	Electronic

ACCURACY:

Base accuracy	±5% of maximum scale value
Adjustment accuracy	<15% of maximum scale value
Repetition accuracy	<2%
Temperature influence	≤1%

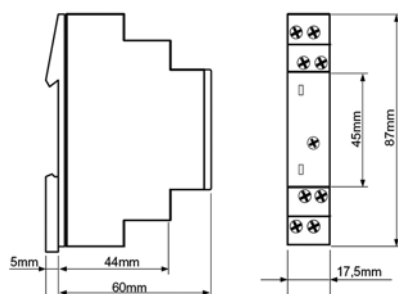
AMBIENT CONDITIONS:

Ambient temperature	-25 to + 55 °C (complies with IEC 68-1)
Storage temperature	-25 to + 70 °C
Relative humidity	15% to 85% (according to IEC 60721-3-3 class 3K3)
Pollution degree	2, when built-in 3 (according to IEC 60664-1)

WEIGHT:

Individual packaging	80 g
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DIMENSIONS



DESCRIPTION	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Remote switch with energy saving function 10 A	1	1	9004840618204		LQ540000



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REMOTE SWITCH FOR DIN RAIL MOUNTING (IMPULSE SWITCH)



LQ611230



LQ622230

SCHRACK INFO

The mechanical impulse switches from Schrack Technik provide optimal availability. The use of pushbuttons and pushbuttons with light function allow convenient switching operations. The remote switches are available with rated coil voltages from 8 V AC to 230 V AC and with 12 V DC and 24 V DC. Different contact assignments (NO, NC, CO) can be tailored to your application. In addition, it is possible to order an impulse switch with indication of the switching condition of the coil.

APPLICATIONS

The remote switches are used primarily in multi-family houses, control technology, and office buildings.

STANDARDS

- EN 60669-1/99 + A1/02
- EN60669-2-2/97 +A1/97

ACCESSORIES

Compensation module (required when exceeding the maximum number of illuminated pushbuttons)

TECHNICAL DATA

Control circuit:

Control voltage U_s :

8, 12, 24, 48, 230 V AC 50 Hz

8, 12, 24, 110 V DC

Functional range:

0.9 - 1.1 x U_s

Attraction power of solenoid coils:

12 VA / 7 W typ.

Minimum command time:

> 200 ms

Duty cycle:

1 MW: 1 hour, unlimited with spacer
2 MW: max. 1 hour with spacer

Load circuit:Rated operating voltage, 1-pole:

250 V AC

Rated operating voltage, 4-pole:

240 / 415 V AC

Minimum operating voltage U_{min} :

24 V AC/DC

Rated current DC:

24 V I_e 16 A

48 V I_e 12.5 A

230 V I_e 1 A

Rated continuous current I_U :

16 A AC

Short-circuit current:

10 kA (with 20 A gL/gG fuse)

Endurance, electrical:

40 x 10² operating cycles

Endurance, mechanical:

1 x 10⁶ operating cycles

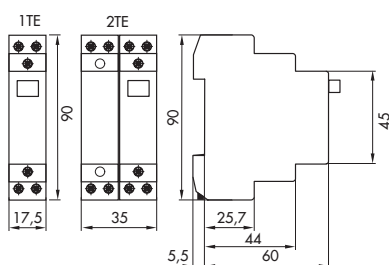
Terminal cross-section:

0.5-10 mm² sold and stranded
0.5-6 mm² finely stranded
with multicore cable end

Temperature range:

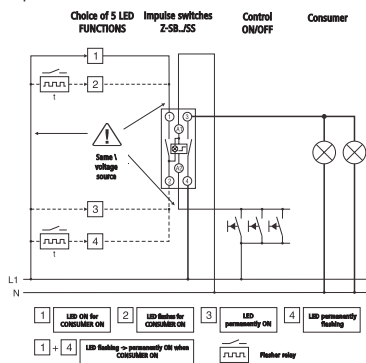
-25 °C to +45 °C

DIMENSIONS



APPLICATION EXAMPLE

Impulse switch with switchable LED



REMOTE SWITCH AND CENTRAL MODULE

COMPENSATION:

The table below tells you how many compensator modules you need to operate a given number of illuminated pushbuttons in combination with different master modules. Use only with 230 V AC pushbuttons with glow lamps.

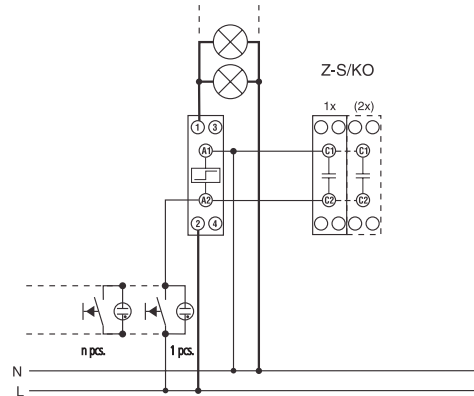
Compensators	Remote switch	
	1P-2P	3P-4P
0	8*	15*
1	23*	X
2	46*	43*

* Number of 0.6 mA glow lamps

Max. number of parallel illuminated pushbuttons 230 V 0.85 mA typ.

Remote switch (LQ6*)	
without compensation	3 pcs. (1MW, 2MW)
with compensation	13 pcs. (1MW), 6 pcs. (2MW)
with compensation	21 pcs. (1MW), 12 pcs. (2MW)

Compensation with capacitor bank



DESCRIPTION	MW	EAN CODE	AVAILABLE	ORDER NO.
Remote switch, 1 NO, 8 V AC	1	9004840374957		LQ611008
Remote switch, 1 NO, 12 V AC	1	9004840374940		LQ611012
Remote switch, 1 NO, 24 V AC/12 V DC	1	9004840374933		LQ611024
Remote switch, 1 NO, 48 V AC/24 V DC	1	9004840374926		LQ611048
Remote switch, 1 NO, 230 V AC	1	9004840374902		LQ611230
Remote switch, 2 NO, 12 V AC	1	9004840375008		LQ612012
Remote switch, 2 NO, 24 V AC/12 V DC	1	9004840374995		LQ612024
Remote switch, 2 NO, 48 V AC/24 V DC	1	9004840374988		LQ612048
Remote switch, 2 NO, 110 V AC	1	9004840374971		LQ612110
Remote switch, 2 NO, 230 V AC	1	9004840374964		LQ612230
Remote switch, 1 NO + 1 NC, 24 V AC/12 V DC	2	9004840375053		LQ614024
Remote switch, 1 NO + 1 NC, 48 V AC/24 V DC	2	9004840375046		LQ614048
Remote switch, 1 NO + 1 NC, 110 V AC	2	9004840375039		LQ614110
Remote switch, 1 NO + 1 NC, 230 V AC	2	9004840375022		LQ614230
Remote switch, 2 NO + 2 NC, 24 V AC/12 V DC	3	9004840375220		LQ616024
Remote switch, 2 NO + 2 NC, 48 V AC/24 V DC	3	9004840375213		LQ616048
Remote switch, 2 NO + 2 NC, 110 V AC	3	9004840375206		LQ616110
Remote switch, 2 NO + 2 NC, 230 V AC	3	9004840375190		LQ616230
Remote switch, 1 CO, 8 V AC	1	9004840375138		LQ617008
Remote switch, 1 CO, 12 V AC	1	9004840375121		LQ617012
Remote switch, 1 CO, 24 V AC/12 V DC	1	9004840375114		LQ617024
Remote switch, 1 CO, 48 V AC/24 V DC	1	9004840375107		LQ617048
Remote switch, 1 CO, 230 V DC	1	9004840375084		LQ617230
Remote switch, 2 CO, 230 V AC	2	9004840375251		LQ618230
Remote switch with LED, 2 NO, 24 V AC	1	9004840375176		LQ622024
Remote switch with LED, 2 NO, 230 V AC	1	9004840375169		LQ622230
Remote switch with LED, 2 NO, 24 V DC	1	9004840375183		LQ622D24
Compensator module 230 V AC	-	9004840394313		LQ690001



RAIL MOUNTED CENTRAL REMOTE SWITCH (IMPULSE CURRENT RELAY WITH CENTRAL FUNCTION)



LQ661230

SCHRACK INFO

Schrack Technik impulse switches with central function offer excellent control possibilities for many applications. Different contact assignment combinations are possible to provide the right solution for each case. The central remote switching units are available with coil voltages from 24 V AC to 230 V AC – with at least 1 NO and up to 3 NO contacts or other contact combinations. The use of illuminated pushbuttons for controlling loads with the central remote switching units requires compensation modules to avoid unwanted switching operations.

APPLICATIONS

Central remote switching units are used very frequently for lighting control in large and small office buildings and single or multi-family homes to switch on/off several groups simultaneously from a central location. Several group levels can be realized, where larger applications require the use of diode modules.

STANDARDS

- EN 60669-1/99 + A1/02
- EN60669-2-2/97 +A1/97

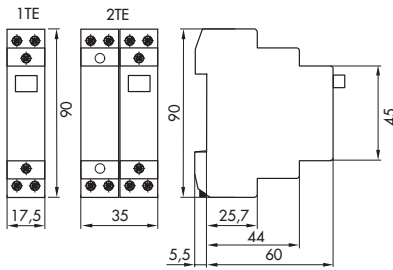
ACCESSORIES

- Compensation module (required when exceeding the maximum number of illuminated pushbuttons)
- Diode module (required, e.g., in multi-stage group circuits)

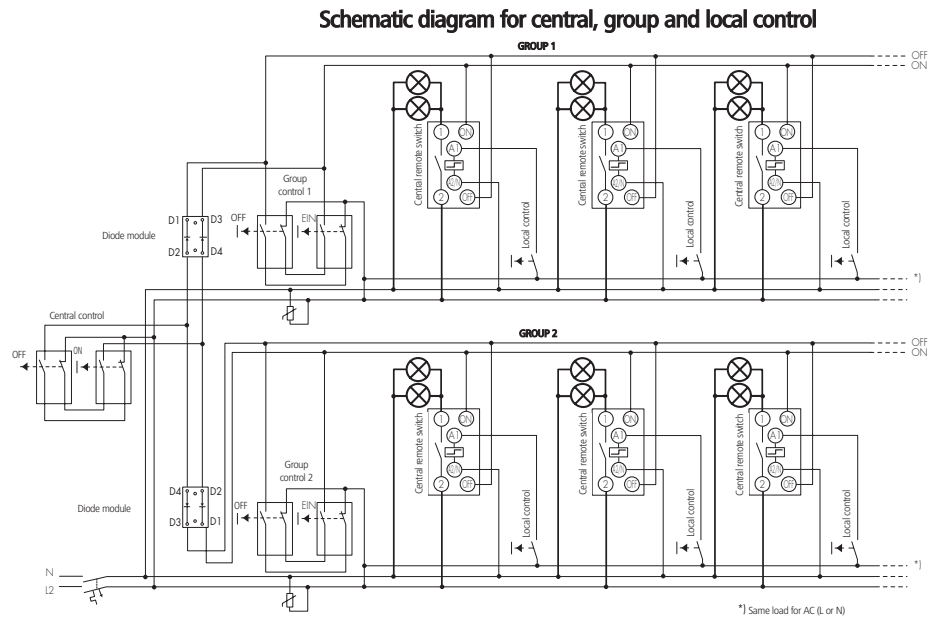
TECHNICAL DATA

Control circuit:	
Control voltage U_s :	24, 110, 230 V AC, others on request
Rated frequency:	50 Hz 24 V; 50 - 400 Hz 240 V
Functional range:	0.9 - 1.1 x U_s
Max. power of solenoid coils:	
switch on	12 VA / typ. 7 VA
Minimum command time:	> 200 ms
Duty cycle:	1 MW: 100% permanent contact-proof, control by continuous pulse and time switches possible 2 MW: max. 1 hr with spacer
Load circuit:	
Rated operating voltage, 1-pole:	250 V AC; 2 / 3
Rated operating voltage, 3-pole:	240 / 415 V AC
Minimum operating voltage U_{min} :	24 V AC/DC (U_s 8-110 V)
Rated continuous current I_N :	16 A AC
Rated current DC:	24 V I_e 16 A 48 V I_e 12.5 A 230 V I_e 1 A
Short-circuit current:	10 kA (with 20 A gL/gG fuse)
Endurance, electrical:	40 x 10 ³ operating cycles
Endurance, mechanical:	1 x 10 ³ operating cycles
Terminal cross-section:	0.5-10 mm ² sold and stranded 0.5-6 mm ² finely stranded with multicore cable end
Temperature range:	-25 °C to +45 °C

DIMENSIONS



APPLICATION EXAMPLE



REMOTE SWITCH AND CENTRAL MODULE

COMPENSATION:

The list below tells you how many compensator modules you need to operate a given number of illuminated pushbuttons in combination with different master modules. Use only with 230 V AC pushbuttons with glow lamps.

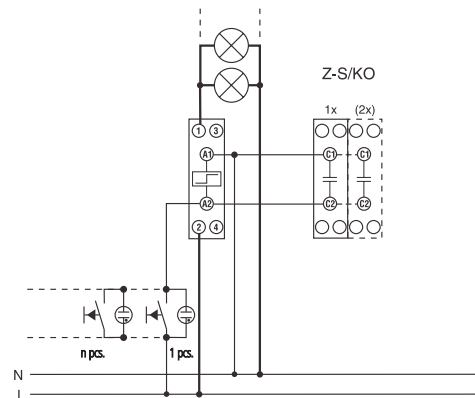
Compensators	Central remote switch	
	1P-2P	3P-4P
0	8*	15*
1	23*	X
2	46*	43*

* Number of 0.6 mA glow lamps

Max. number of parallel illuminated pushbuttons 230 V 0.85 mA typ.

Remote switch (LQ6*)	
without compensation	3 pcs. (1MW, 2MW)
with compensation	13 pcs. (1MW), 6 pcs. (2MW)
with compensation	21 pcs. (1MW), 12 pcs. (2MW)

Compensation with capacitor bank



DESCRIPTION	MW	EAN CODE	AVAILABLE	ORDER NO.
Central remote switch, 1 NO, 24 V AC	1	9004840375152		LQ661024
Central remote switch, 3 NO, 110 V AC	1	9004840375329		LQ663110
Central remote switch, 1 NO, 230 V AC	1	9004840375145		LQ661230
Central remote switch, 3 NO, 230 V AC	2	9004840375312		LQ663230
Central remote switch, 2 NO + 1 NC, 230 V AC	2	9004840375350		LQ665230
Central remote switch, 1 NO + 1 CO, 230 V AC	2	9004840375336		LQ669230
Diode module 240 V AC	2	9004840394320		LQ690000
Compensator module 240 V AC	-	9004840394313		LQ690001



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MODULAR RELAY BZ651000

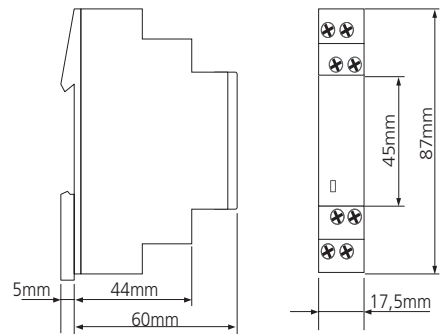


BZ651000

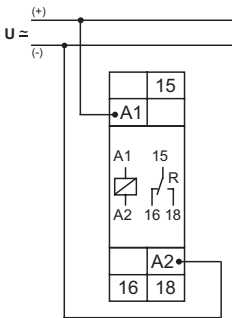
SCHRACK INFO

- Coupling relay
- 1 CO
- Width 17.5 mm
- Installation design

DIMENSIONS (mm)



CIRCUIT DIAGRAM



TECHNICAL DATA

INPUT CIRCUIT:	
Supply voltage	24 to 240 V AC/DC
Terminals	A1(+)-A2
Tolerance	-15% to +10%
Rated surge voltage	4 kV
OUTPUT CIRCUIT	
1 potential-free changeover switch	
Rated voltage	250 V AC
Switching capacity	2000 VA (8 A / 250 V)
Fuse	8 A fast acting
Switching frequency	Max. 6/min at 1000 VA resistive load (according to IEC 60947-5-1)
Overvoltage category	III (according to IEC 60664-1)
Rated surge voltage	4 kV
AMBIENT CONDITIONS	
Ambient temperature	-25 to +55 °C
WEIGHT	
Individual packaging	60g

DESCRIPTION	MW	PU	EAN CODE	AVAILABLE	ORDER NO.
Modular relay					
1 CO, 24-240 V AC/DC	1	10	9004840557381		BZ651000

MODULAR RELAY BZ652000

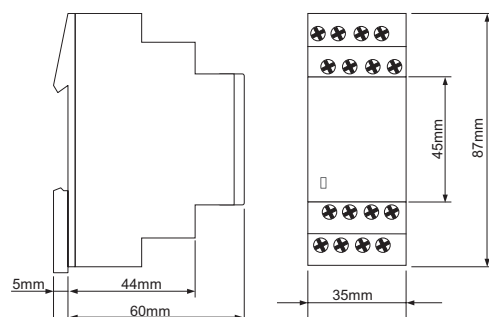


BZ652000

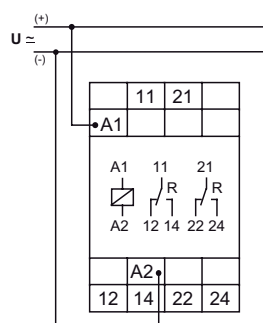
SCHRACK INFO

- Coupling relay
- 2 CO
- Width 35 mm
- Installation design

DIMENSIONS (mm)




CIRCUIT DIAGRAM



TECHNICAL DATA

INPUT CIRCUIT:		
Supply voltage		12 to 240 V AC/DC
Terminals		A1(+)-A2
Tolerance		-10% to +10%
Rated surge voltage		4 kV
OUTPUT CIRCUIT		
2 potential-free changeover switches		
Rated voltage		250 V AC
Switching capacity		2000 VA (8 A / 250 V)
Fuse		8 A fast acting
Switching frequency		Max. 6/min at 1000 VA resistive load (according to IEC 60947-5-1)
Overvoltage category		III (according to IEC 60664-1)
Rated surge voltage		4 kV
AMBIENT CONDITIONS		
Ambient temperature		-25 to +55 °C
WEIGHT		
Individual packaging		100g

DESCRIPTION	MW	PU	EAN CODE	AVAILABLE	ORDER NO.
Modular relay					
2 CO, 12-240 V AC/DC	1	1	9004840557473		BZ652000



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STAIRCASE TIMER, SERIES TIMON



BZ327210-A

SCHRACK INFO

- Energy saving function
- Time range 0.5 to 30 minutes
- Low switching noise
- High switching capacity, 80 A peak inrush power
- Automatic 3-/4-conductor detection
- Glow lamp load up to 100 mA
- Width 17.5 mm
- Installation design

FEATURES

Electronic staircase lighting timer with restart function (complies with EN 60669-2-3). The control input allows the connection of pushbuttons with up to 100 mA glow lamp load and enables the application in 3- or 4-wire circuits. After an ON duration of about 5 seconds, a long keypress (>2 s) will switch off the unit (energy saving function).

TECHNICAL DATA

TIME RANGES:	
Delay	Adjustment range 0.5 - 30 min
INDICATORS:	
Green LED ON	Indication of supply voltage
Yellow LED ON/OFF	Position of output relay
MECHANICAL DESIGN:	
Housing	Made of self-extinguishing plastic, IP rating IP40
Mounting	on DIN rail TS 35 according to EN 60715
Shockproof terminal connection according to VBG 4 (PZ1 required)	IP rating IP20
TERMINALS:	
Tightening torque	Max 1 Nm
Terminal capacity	1 x 0.5 to 2.5 mm ² with/without multicore cable end 2 x 0.5 to 1.5 mm ² with/without multicore cable end 1 x 4 mm ² without multicore cable end 2 x 2.5 mm ² flexible without multicore cable end
INPUT CIRCUIT:	
Supply voltage	Terminals L - N
Nominal voltage	230 V AC / 50/60 Hz
Tolerance	-15% to +10%
Rated consumption	2 VA (1.0 W)
Nominal frequency	AC 48 to 63 Hz
Duty cycle	100%
Reset time	500 ms
Drop-out voltage	>30%
Overvoltage category	III (according to IEC 60664-1)
Rated surge voltage	4 kV

TECHNICAL DATA – continued

OUTPUT:

1 normally open contact	Terminals L - 18
Rated voltage	250 V AC
Switching capacity	10 A continuous current
Switching capacity	16 A continuous current
Start-up peak (20 ms)	80 A
Mechanical life	30 x 10 ⁶ operations
Electrical life	Resistive load: 10 ⁵ operations at 16 A 250 V Lamp load: 80,000 operations at 1000 W 250 V

CONTROL INPUT B1:

Connection not potential-free	Pushbutton B1-N (3-conductor circuit) Pushbutton B1-L (4-conductor circuit)
Glow lamp load	Max. 100 mA parallel to the pushbuttons
Overload protection	Electronic

ACCURACY:

Base accuracy	±5% of maximum scale value
Adjustment accuracy	<15% of maximum scale value
Repetition accuracy	<2%
Temperature influence	≤1%

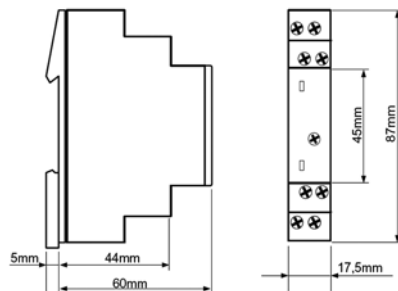
AMBIENT CONDITIONS:

Ambient temperature	-25 to + 55 °C (complies with IEC 68-1)
Storage temperature	-25 to + 55 °C
Transport temperature	-25 to + 55 °C
Relative humidity	15% to 85% (according to IEC 60721-3-3 class 3K3)
Pollution degree	2, when built-in 3 (according to IEC 60664-1)

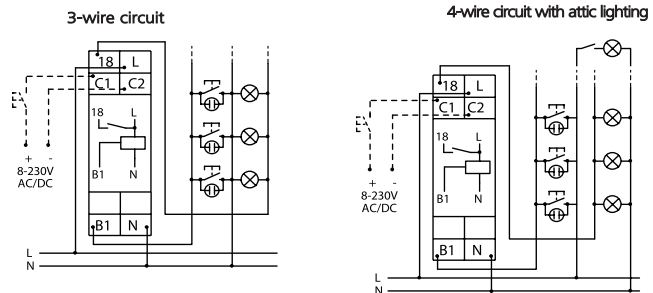
WEIGHT:

Individual packaging	80 g
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DIMENSIONS



CONNECTION DIAGRAMS



DESCRIPTION	MW	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Staircase lighting timer 0.5-30 min. 10 A electronic	1	1	9004840618198		BZ327210-A



no. blue: on stock, usually ready for delivery on the day of order!

STAIRCASE TIMER, SERIES VOWA



BZ327350

SCHRACK INFO

- Switch-off warning
- Time delay, long-time function programmable
- Energy saving function
- Impulse switch mode selectable
- Low switching noise
- High switching capacity, 80 A start-up peak
- Automatic 3-/4-conductor detection
- Glow lamp load up to 100 mA
- Width 17.5 mm
- Installation design

FEATURES

Electronic staircase lighting timer with switch-off warning. The control input allows the connection of pushbuttons with a total of up to 100 mA glow lamp load and enables the application in 3- or 4-wire circuits. The unit can be time-delayed via a connected pushbutton and switched off by a long keypress (energy saving function). By "pumping", the delay can be increased to a multiple of the freely selectable time t . Depending on the type, the following operating modes can be selected using the controls on the front:

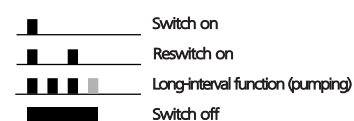
- 0 Off
- 1 Continuous light (ON)
- TW Automatic timer with switch-off warning

Only for BZ327360:

- T Automatic timer without switch-off warning
- P Impulse switch mode without time function
- PN Impulse switch mode, power fail latch

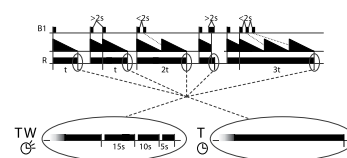
CONTROL OPTIONS ON B1 IN AUTOMATIC TIMER MODE – MORE FUNCTIONS VOWA PLUS

The additional control input C1-C2 mode allows in T and TW modes the activation of the staircase lighting timer by a voltage of 8 to 230 V AC/DC. This input can be used to start and restart the timing function. Shutdown (energy saving function) and programming of longer times (pumping) is not possible using this input.



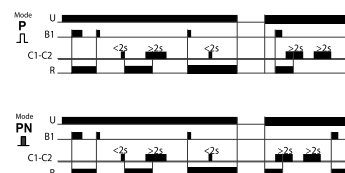
AUTOMATIC TIMER MODE (T, TW)

After the pushbutton B1 has been pressed, the output relay R (terminals L-18) closes and the set interval t begins. If the pushbutton is pressed again before the interval t has expired, the time begins again (restart function complies with EN 60669-2-3). Rapid, multiple pressing the pushbutton adds 2, 3 or more time intervals to extend the time up to 60 min. A long press (> 2 s) aborts the current interval, and the relay switches off (energy saving function). In TW mode, the device provides a switch-off warning (in accordance with DIN 180-158-2) by generating short pulses (flashing) at 30 s, 15 s and 5 s prior to switch-off.



IMPULSE SWITCH MODE (P), (PN)

In impulse switch mode, every keypress of B1 toggles the output relay R (flip-flop). In function P, the output relay R remains in the off-position, whenever the supply voltage is applied. In function PN, the output relay R immediately switches on after applying the supply voltage U, if the output relay R was in the On position last before the power failure. The output relay R switches On, if a short voltage impulse (< 2 s) is applied to the additional control input (C1-C2). A longer voltage impulse (> 2 s) opens the relay R (central OFF).



TECHNICAL DATA

TIME RANGES

Time delay adjustment range	0.5 - 12 min (in function T, TW)
Indicators	Green LED ON supply voltage is applied, yellow LED ON/OFF position of the output relay

SHOCKPROOF CLAMPING YOKE TERMINALS

Tightening torque	Max 1 Nm
Terminal capacity	1 x 0.5 to 2.5 mm ² with/without multicore cable end, 2 x 0.5 to 1.5 mm ² with/without multicore cable end, 1 x 4 mm ² without multicore cable end, 2 x 2.5 mm ² flexible without multicore cable end

INPUT CIRCUIT

Supply voltage	Terminals L - N
Nominal voltage	230 V AC / 50/60 Hz
Rated consumption	2 VA (1.0 W)
Duty cycle	100%
Reset time	500 ms

OUTPUT

1 normally open contact	Terminals L - 18
Rated voltage	250 V AC
Switching capacity (distance < mm)	10 A continuous current, start-up peak (20 ms) 80 A
Endurance, electrical, resistive load:	10 ⁵ operations at 16 A 250 V
Lamp load:	80,000 operations at 1000 W 250 V

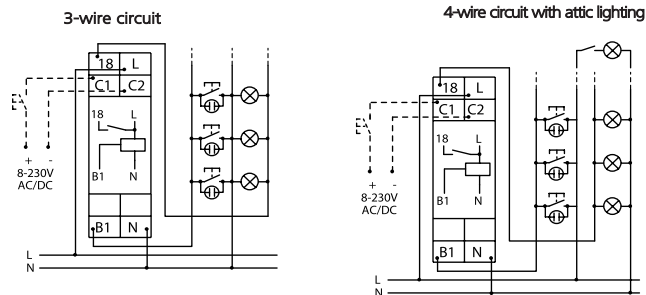
CONTROL INPUT B1

Connection not potential-free	Pushbutton B1-N (3-conductor circuit), pushbutton B1-L (4-conductor circuit)
Glow lamp load	Max. 100 mA parallel to the pushbuttons, electronic overload protection

ADDITIONAL CONTROL INPUT BZ327360

Connection	Control voltage at terminals C1 (+) - C2
Control voltage	8 to 230 V AC/DC
Galvanic isolation	Yes, basic insulation
Ambient conditions	Ambient temperature -25 to +55 °C (complies with IEC 68-1)
Dimensions	1 MW

CONNECTION DIAGRAMS



DESCRIPTION	MW	PU	EAN CODE	AVAILABLE	ORDER NO.
Staircase lighting timer VOWA	1	10	9004840450323		BZ327350
Staircase lighting timer VOWA-PLUS	1	10	9004840450330		BZ327360

STAIRCASE TIMER, SERIES TIMON M



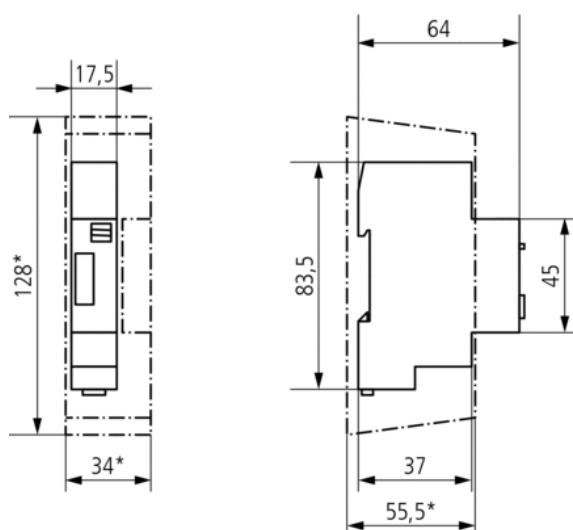
SCHRACK-INFO

- Staircase time switch, electronic
- 4 conductor with floor lighting connection
- 3 conductor without floor lighting
- Retriggerable
- No closed-circuit current consumption
- Toggle switch for permanent light ON
- Reliable due to synchronous motor drive
- Simplest possible time setting and direct delay time readout on absolute scale
- Precision mechanics and therefore exact switching period
- Very low sensitivity to interference

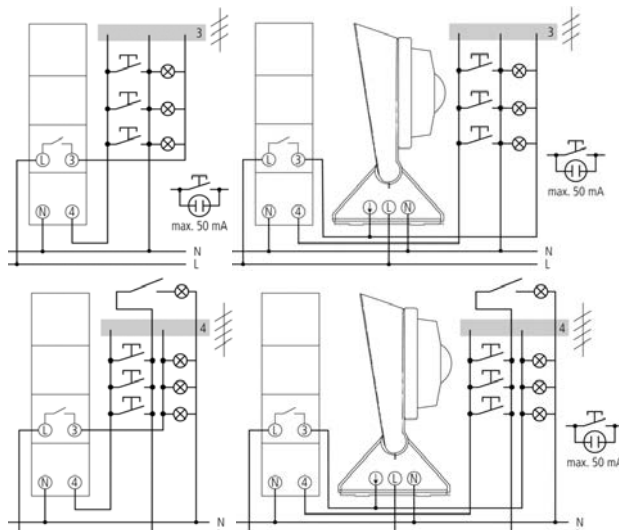
TECHNICAL DATA

Operating voltage	230 V AC
Frequency	50 Hz
Width	1 module
Installation type	DIN rail
Stand-by consumption	0 W
Glow lamp load	50 mA
Setting range time	1 – 7 min
Type of connection	3-/4-conductor
3/4 conductor	Yes
Secondary switching	After 30 s
Type of contact	NO contact
Opening width	> 3 mm
Switching output	Not potential-free (230 V)
Incandescent/halogen lamp load	2300 W
Fluorescent lamp load (conventional) lead-lag circuit	2300 VA
Fluorescent lamp load (conventional) parallelcorrected	1300 VA, 70 F
Energy saving lamps	9 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W
Fluorescent lamp load (EVG)	300 VA
Fluorescent lamp load (conventional) seriescorrected	2300 VA
Fluorescent lamp load (conventional) not corrected	2300 VA
Switching capacity	10 AX (at 230 V AC, $\cos \phi = 0.3$), 16 A (at 230 V AC, $\cos \phi = 1$)
Switch for permanent light	Toggle switch
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Ambient temperature	-10 °C ... +50 °C
Protection class	II
Type of protection	IP 20

DIMENSIONS



CONNECTION EXAMPLE



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
TIMON M – Timers for staircase lighting	9004840667172		BZ926350

MAINS DISCONNECTION RELAY NAK16 / 3 – GENERAL INFORMATION



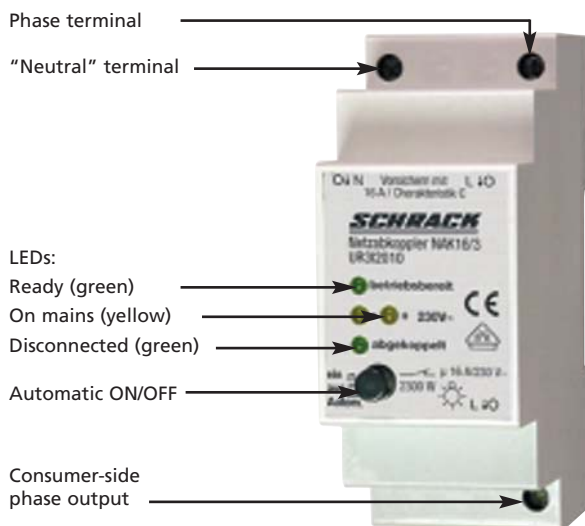
SCHRACK INFO

- **1-pole disconnection** for optimal personal protection and minimal residual ripple. Cross-couplings are dissipated effectively through a low-resistance output.
- **Monitoring voltage:** Ecologically friendly low-current DC voltage (max. 8 mA / 230 V DC)
- **Residual ripple** (nom./typ./max.) < 2 mV, < 4 mV, < 8 mV
- **Endurance, mechanical:** at least 15×10^6 operations
- **Nominal voltage/capacity:** 230 V AC $\pm 10\%$, 16 A, 2300 Watt lamp load

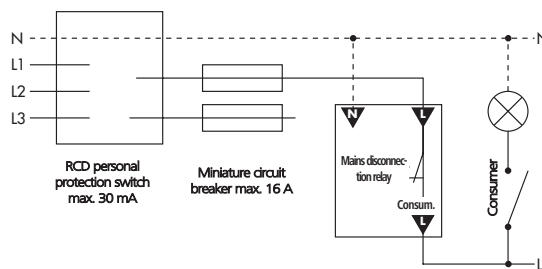
INNOVATION

Several issued and pending patents impressively document the technical superiority over the state of the art.

FUNCTIONAL ELEMENTS



CIRCUIT DIAGRAM



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MAINS DISCONNECTION RELAY



UR3I2010

SCHRACK INFO

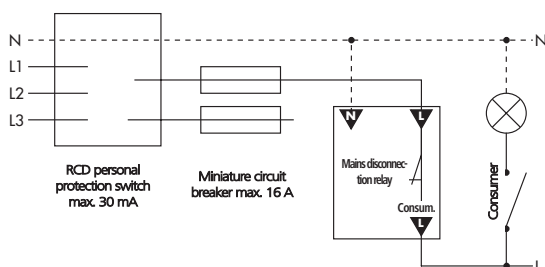
- 1-pole disconnection for optimal personal protection and minimal residual ripple. Cross-couplings are dissipated effectively through a low-resistance output.
- Monitoring voltage: Ecologically friendly low-current DC voltage (max. 8 mA / 230 V DC)
- Residual ripple (nom./typ./max.) < 2 mV, < 4 mV, < 8 mV
- Endurance, mechanical: at least 15×10^6 operations
- Nominal voltage/capacity: 230 V AC $\pm 10\%$, 16 A, 2300 Watt lamp load
- Cannot be combined with touch dimmer


TIPS & TRICKS

The use of electricity inevitably generates electric and magnetic fields (electric smog). The “homemade” pollution sources of electric smog such as clock radios or electric heating blankets often cause greater levels of electric smog by alternating electric and magnetic fields than sources that are beyond our control, such as high voltage electricity lines, transformer stations or railway lines or also mobile phone masts. Electrical fields are already caused by the voltages themselves, even if the electrical loads are switched off and a current does not flow. Given this fact, specialists recommend mains disconnection relays (often called “demand switches”) as the primary, and most important technical means to reduce alternating electrical and magnetic fields.

The SCHRACK mains disconnection relay was tested according to strictest safety requirements by the VDE.

CIRCUIT DIAGRAM



DESCRIPTION	MW	DIM. (WxHxD) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Mains disconnection relay	2	35x70x76	1	NAK 16/3	9004840377200		UR3I2010



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MODULAR SWITCH WITH PUSH-BUTTON, WITHOUT SIGNAL LAMP



BZ107020

SCHRACK INFO

- Design according to IEC 947-3
- Rated voltage/frequency: 230/400 V AC, 50/60 Hz
- Conductor cross-section: 1-10 mm²
- Finger and hand touch safe VBG 4, ÖVE-EN 6, BVG A3
- Mounting system: Special snap-on mounting for DIN rail EN 50 022

RATED CURRENT/CONTACTS	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
16 A/1 NO	1	12	BZ A16/1NO	9004840406474		BZ107010
16 A/2 NO	1	12	BZ A16/2NO	9004840406481		BZ107020
16 A/1 NO / 1 NC	1	12	BZ S16/1NO/1NC	9004840406498		BZ107030
16 A/1 CO	1	12	BZ W16/1CO	9004840406504		BZ107050

MODULAR SWITCH WITH PUSH-BUTTON AND LED, WITHOUT SIGNAL LAMP



BZ127131

SCHRACK INFO

Light source: LED with a supply voltage of 24 V or 230 V AC/DC

Lift terminals with protection against incorrect insertion

- Design according to EN 60068
- Rated voltage/frequency: 230/400 V AC, 50/60 Hz
- Conductor cross-section: 1-10 mm²
- Finger and hand touch safe VBG 4, ÖVE-EN 6
- Mounting system: Special snap-on mounting for DIN rail EN 50 022

RATED CURRENT/CONTACTS	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
16 A/1 NO/1 NC/24 AC/DC	1		BZ SL16/1NO/1NO	9004840406528		BZ127131
16 A/2 NO/24 AC/DC	1		BZ AL16/2NO	9004840406511		BZ127121
16 A/1 NO/1 NC/230 AC/DC	1		BZ SL16/1NO/1NC	9004840406542		BZ117131
16 A/2 NO/230 AC/DC	1		BZ AL16/2NO	9004840406535		BZ117121



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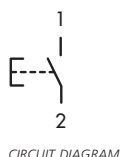


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MODULAR PUSH-BUTTON



BZ107430



SCHRACK INFO

See the label for circuit diagrams of all pushbuttons

Lift terminals with protection against incorrect insertion

- Design according to EN 60068
- Rated voltage/frequency: 230/400 V AC, 50/60 Hz
- Conductor cross-section: 1-10 mm²
- Finger and hand touch safe VBG 4, ÖVE-EN 6
- Mounting system: Special snap-on mounting for DIN rail EN 50 022

RATED CURRENT/CONTACTS	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
16 A/1 NO	1	1	BZ T16/1NO	9004840406436		BZ107410
16 A/1 NO/1 NC	1	1	BZ T16/1NO/1NC	9004840406443		BZ107430

MODULAR PUSH-BUTTON WITH LED



BZ117531

SCHRACK INFO

Lift terminals with protection against incorrect insertion

- Design according to EN 60068
- Rated voltage/frequency: 230/400 V AC, 50/60 Hz
- Conductor cross-section: 1-10 mm²
- Finger and hand touch safe VBG 4, ÖVE-EN 6
- Mounting system: Special snap-on mounting for DIN rail EN 50 022

RATED CURRENT/CONTACTS/VOLTAGE	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
16 A/1 NO/1 NC/24 V AC/DC	1		BZ TS16/1NO/1NC	9004840406450		BZ127531
16 A/1 NO/1 NC/230 V AC/DC	1		BZ TS16/1NO/1NC	9004840406467		BZ117531

INDICATOR LIGHT-LED



BZ117904



BZ127908

SCHRACK INFO

- 2 colour LEDs red/green changeable

DESCRIPTION	MW	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Single lamp 12-24 V AC/DC red/green	1	1	BZ LM R/G 24	9004840406566		BZ127904
Single lamp 110-240 V AC/DC red/green	1	1	BZ LM R/G 240	9004840406559		BZ117904
Double lamp 12-24 V AC/DC red/green	1	1	BZ DLM R/G 24	9004840406580		BZ127908
Double lamp 110-240 V AC/DC red/green	1	1	BZ DLM R/G 240	9004840406573		BZ117908

CONTROL RELAY EASY



SCHRACK INFO

For easy switching of complex requirements. The control relay EASY makes this is done simply by pressing a button or with the convenient EASY Soft application on a PC. User-friendly menu guidance facilitates the entry. Mounting and wiring cost savings guaranteed.

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
24 V DC, 8 digital inputs, 4 relay outputs, LCD display, control buttons	4015082741082		EA274108
24 V DC, 8 digital inputs, 4 relay outputs, display, control buttons, weekly and yearly time switches	4015082741099		EA274109
100-240 V AC, 8 digital inputs, 4 relay outputs, LCD display, control keys	4015082741037		EA274103
100-240 V DC, 8 digital inputs, 4 relay outputs, LCD display, control buttons, weekly and yearly time switches	9004840409895		EA274104
100-240 V DC, 12 digital inputs, 6 relay outputs, LCD display, control buttons, weekly and yearly time switches	9004840409918		EA274115
24 V DC, 12 digital inputs, 8 relay outputs, LCD display, control buttons,	4015082741211		EA274121
Windows software for programming the Easy 400-700	4015082845452		EA284545
EASY memory card 32KB	9004840410891		EA270884
Interface cable RS232/EASY	4015082024093		EA202409
Switched power supply 100-240 V AC / 24 V DC, 1.25 A	9004840199178		EA212319

MODULAR SOCKET OUTLETS



BZ325000



BZ325001-A



YY4926F



YY494518

DESCRIPTION	DIM. (WxHxD) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
DIN rail mounted socket outlet with earth	52x76x65	1	REG-SD	9004840198607		BZ325000-A
DIN rail mounted socket outlet with earth with LED		1		9004840662528		BZ325003
DIN rail mounted socket outlet with pin; for CH, CZ, F	44.5x76x65	1	REG-SD/CZ	9004840198614		BZ325001-A
Socket outlet for front-mounting	44.5x76x65	1	SD-E bl.	9004840063509		YY492639
High current socket outlet CEE, DIN rail mounting		1	5x16	9004840409635		YY494518



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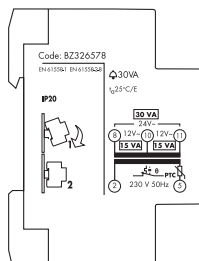
MODULAR BELL TRANSFORMER



BZ326578



BZ326577



SCHRACK INFO

- Rated voltage 230 V 50 Hz
- Rated output 8, 15, 24, 30 VA

INPUT/OUTPUT	MW	DIM. (WxHxD) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
230 V AC prim./4,8,12 V AC sec., 15 VA	2	35x85x58	1	KL-TR/15VA	9004840275216		BZ326577
230 V AC prim./12,12,24 V AC sec., 30 VA	3	52x85x58	1	KL-TR/30VA	9004840275209		BZ326578
230 V AC prim./12,24 V AC sec., 63 VA	6	105x85x65	1	KL-TR/63VA	9004840384796		BZ326579

DC POWER SUPPLY, INSTALLATION DESIGN TYPE, STABILISED



LP746201

SCHRACK INFO

- DIN rail mounted power supply unit
- 230 V AC supply
- 24 V DC / 12 V DC output voltage

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Single-pole power supply unit, 230/24 V DC, 1.5 A	9004840556988		LP746201
Single-pole power supply unit, 230/12 V DC, 2 A	9004840556971		LP7432C2

MODULAR BELL



BZ26338

SCHRACK INFO

- Continuous load up to 12 hours possible
- Coil voltage: 12, 230 V AC
- Own consumption: 4.5 VA
- Conductor cross-section: 10 mm²
- 75 dB

SUPPLY VOLTAGE	MW	DIM. (WxHxD) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Bell, 230 V AC	1	17.5x86x67	1	066625-SRK	9004840166132		BZ926338
Bell, 12 V AC	1	17.5x86x67	1	066627-SRK	9004840166163		BZ926351

MODULAR BUZZER



BZ926339

SCHRACK INFO

- Continuous load up to 12 hours possible
- Coil voltage: 12, 230 V AC
- Own consumption: 4.5 VA
- 77 dB

SUPPLY VOLTAGE	MW	DIM. (WxHxD) mm	PU	EAN CODE	AVAILABLE	ORDER NO.
Buzzer, 230 V AC	1	17.5x86x67	1	9004840166149		BZ926339
Buzzer, 12 V AC	1	17.5x86x67	1	9004840166170		BZ9263453

MODULAR DIMMER 420 VA FOR DIN RAIL MOUNTING



EHTD420VA

SCHRACK INFO

Dimming output 10-420 VA, 230 V/50 Hz, 2 MW. Activation by standard pushbutton; central On/Off function; 2 memory queries; leading or trailing edge settable at the front of the unit; with thermal overload, electronic short-circuit protection, overvoltage protection, soft start function, half-wave balancing, and open-circuit monitoring.

DESCRIPTION	MW	DIM. (WxHxD) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Push button dimmer 420 VA UNI	2	35x86x67	1		9004840614602		EHTD420VA

MODULAR DIMMER CONTROL UNIT



EHTDSTRG2

SCHRACK INFO

230 V/50 Hz, 1 MW. Activation by standard pushbutton; central On/Off function; 2 memory queries; 1 MW; max. 10 touch dimmer power units 500 UNI or 1200 UNI connectable. At least one power unit required for functioning.

DESCRIPTION	MW	DIM. (WxHxD) mm	PU	TYPE	EAN CODE	AVAILABLE	ORDER NO.
Push button dimmer control unit	1	17.5x86x67	1		9004840614619		EHTDSTRG2



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MODULAR DIMMER FOR EHTDSTRG2





EHTDLT500

SCHRACK INFO

Equipped with thermal overload protection, electronic short-circuit protection, overvoltage protection, soft start function, half-wave balancing, and open-circuit monitoring. Output increase through parallel connection in the PWM circuit. 230 V/50 Hz

Output 500 UNI = 10 VA - 500 VA; 2 MW

Output 1200 UNI = 10 VA - 1200 VA; 4 MW

DESCRIPTION	MW	PU	EAN CODE	AVAILABLE	ORDER NO.
Push button dimmer power unit 500 UNI	2	1	9004840614626		EHTDLT500
Push button dimmer power unit 1200 UNI	4	1	9004840614633		EHTDLT1200

MODULAR REG ROTARY DIMMER 500




EHTDREH500

SCHRACK INFO

Dimmer with rotary knob control; can be integrated in changeover circuits. Leading or trailing edge settable at the front of the unit; with thermal overload, electronic short-circuit protection, overvoltage protection, soft start function, half-wave balancing, and open-circuit monitoring. 230 V/50 Hz

Output 500 UNI = 10 VA - 500 VA; 2 MW

DESCRIPTION	MW	PU	EAN CODE	AVAILABLE	ORDER NO.
Rotary dimmer 500 UNI	2	1	9004840614640		EHTDREH500

MODULAR ROTARY DIMMER 1200



EHTDREH1200

SCHRACK INFO

Dimmer with rotary knob control; can be integrated in changeover circuits. Leading or trailing edge settable at the front of the unit; with thermal overload, electronic short-circuit protection, overvoltage protection, soft start function, half-wave balancing, and open-circuit monitoring. 230 V/50 Hz

Output 1200 UNI = 10 VA - 1200 VA; 4 MW

DESCRIPTION	MW	PU	EAN CODE	AVAILABLE	ORDER NO.
Rotary dimmer 1200 UNI	4	1	9004840614657		EHTDREH1200



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ANALOG DIN-RAIL TIME SWITCH SYNCHRON, SERIES TEMPUS ANALOG



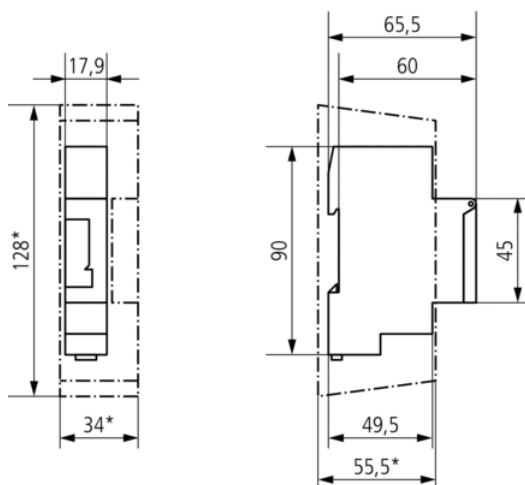
SCHRACK-INFO

- Analogue time switch
- 1 channel
- Daily program
- Without power reserve
- 96 switching segments
- Synchronised with mains
- Shortest switching time: 15 minutes
- Screw terminals
- Manual switch with 3 positions:
Permanent ON/AUTO/continuous OFF
- Switching status display

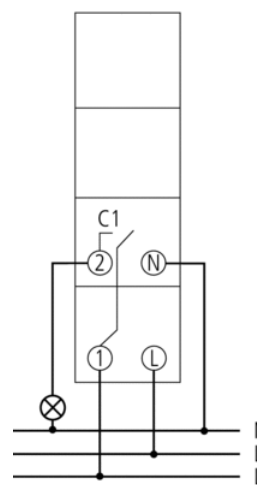
TECHNICAL DATA

Operating voltage	230 V AC
Frequency	50 Hz
Number of channels	1
Program	Daily program
Width	1 module
Installation type	DIN rail
Type of connection	Screw terminals
Drive	Synchronous motor
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A
Shortest switching times	15 min
Programmable all	15 min
Time accuracy	Synchronised with mains
Type of contact	NO contact
Switching output	Potential-free and phase-independent
Number of switching segments	96
Stand-by consumption	0,9 W
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Type of protection	IP 20
Protection class	II as per EN 60 730-1
Ambient temperature	-25 °C ... +50 °C

DIMENSIONS



CONNECTION EXAMPLE



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Analog din-rail time switch synchron, series Tempus analog	9004840667189		BZ926448

MECHANICAL TIME SWITCH QUARTZ 1NO, 1TE



SCHRACK-INFO

- Analogue time switch
- 1 channel
- Daily program
- Width power reserve (NiMH rechargeable battery)
- 96 switching segments
- Crystal controlled
- Shortest switching time: 15 minutes
- Screw terminals
- Manual switch with 3 positions: Permanent ON/AUTO/continuous OFF
- Switching status display

TECHNICAL DATA

Operating voltage	230 – 240 V AC
Frequency	50 – 60 Hz
Number of channels	1
Program	Daily program
Width	1 modules
Installation type	DIN rail
Type of connection	Screw terminals
Drive	Quartz-controlled stepper motor
Power reserve	3 days
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A
Shortest switching times	15 min
Programmable all	15 min
Time accuracy	$\leq \pm 1 \text{ s/Tag (Quartz)}$
Type of contact	NO contact
Switching output	Potential-free and phase-independent
Number of switching segments	96
Stand-by consumption	0,5 W
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Type of protection	IP 20
Protection class	II as per EN 60 730-1
Ambient temperature	-10 °C ... +50 °C

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Mechanical time switch quartz 1NO, 1TE	9004840680928		BZT26450



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ANALOG DIN-RAIL TIME SWITCH SYNCHRON, SERIES TEMPUS ANALOG



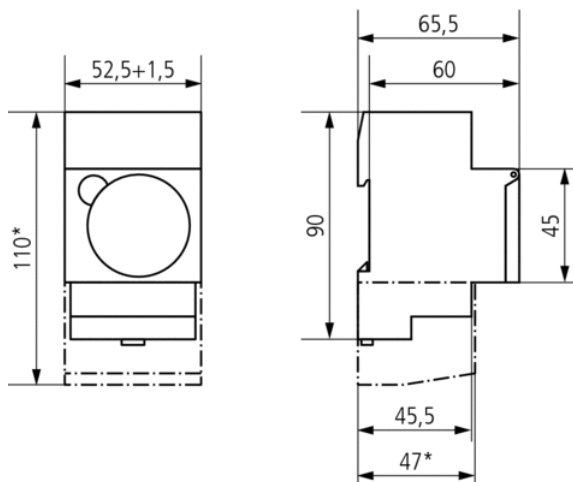
SCHRACK-INFO

- Analogue time switch
- 1 channel
- Daily program
- Without power reserve
- Synchronised with mains
- Shortest switching time: 30 minutes
- Simple summer/winter time correction
- Time can be changed clockwise or anti-clockwise
- 48 switching segments
- Screw terminals
- Switching preselection
- Permanent ON/OFF switch
- Switching status display
- Operation control display

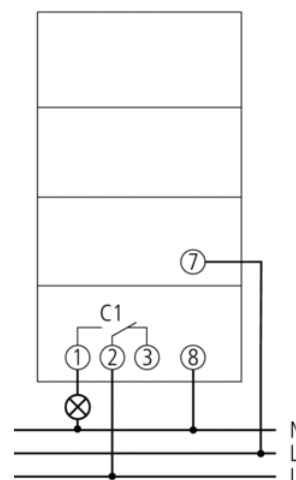
TECHNICAL DATA

Operating voltage	230 V AC
Frequency	50 Hz
Number of channels	1
Program	Daily program
Width	3 modules
Installation type	DIN rail
Type of connection	Screw terminals
Drive	Synchronous motor
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A
Shortest switching times	30 min
Programmable all	30 min
Time accuracy	Synchronised with mains
Type of contact	Changeover contact
Switching output	Potential-free and phase-independent
Number of switching segments	48
Stand-by consumption	1 VA
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Type of protection	IP 20
Protection class	II as per EN 60 730-1
Ambient temperature	-20 °C ... +50 °C

DIMENSIONS



CONNECTION EXAMPLE



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Analog din-rail time switch synchron, series Tempus analog	9004840667196		BZ927031



no. blue: on stock, usually ready for delivery on the day of order!

ANALOG DIN-RAIL TIME SWITCH QUARTZ, SERIES TEMPUS ANALOG



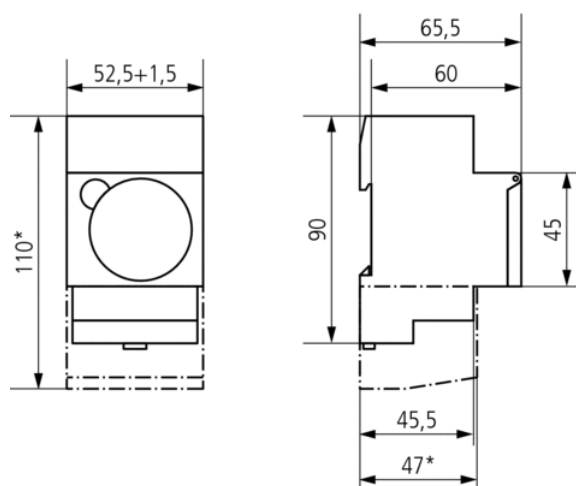
SCHRACK-INFO

- Analogue time switch
- 1 channel
- Daily program
- With power reserve (NiMH rechargeable battery)
- Synchronised with mains
- Shortest switching time: 30 minutes
- Simple summer/winter time correction
- Time can be changed clockwise or anti-clockwise
- 48 switching segments
- Screw terminals
- Switching preselection
- Permanent ON/OFF switch
- Switching status display
- Operation control display

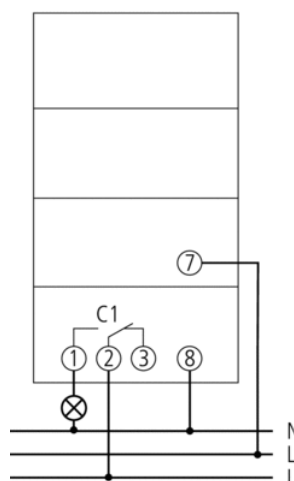
TECHNICAL DATA

Operating voltage	230 V AC
Frequency	50 – 60 Hz
Number of channels	1
Program	Daily program
Width	3 modules
Installation type	DIN rail
Type of connection	Screw terminals
Drive	Quartz-controlled stepper motor
Power reserve	3 days
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A
Shortest switching times	30 min
Programmable all	30 min
Time accuracy	$\leq \pm 1 \text{ s/day (quartz)}$
Type of contact	Changeover contact
Switching output	Potential-free and phase-independent
Number of switching segments	48
Stand-by consumption	0,1 W
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Type of protection	IP 20
Protection class	II as per EN 60 730-1
Ambient temperature	-20 °C ... +50 °C

DIMENSIONS



CONNECTION EXAMPLE



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Analog din-rail time switch quartz, series Tempus analog	9004840667202		BZ927131

DIGITAL WEEKLY TIME SWITCH, 1 CO CONTACT, SMALL



SCHRACK-INFO

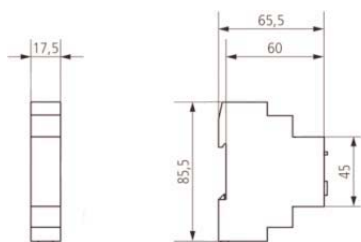
- Digital time switch with weekly program
- Holiday program
- 1 channel
- Display backlight (switchable)
- 56 memory locations
- PIN code
- Duo Fix spring clamp terminals
- Automatic summer time and winter time
- Text-oriented user interface on the display
- Interface for OBELISK top2 memory card (Computer programming)
- 10 year power reserve (lithium battery)
- ON-OFF switching times
- Switching preselection
- Permanent ON / OFF
- Integrated operating hours counter

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245

TECHNICAL DATA

Operating voltage	230 V AC
Frequency	50 – 60 Hz
Width	1 module
Installation type	DIN-rail
Power reserve	10 years
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A
Incandescent-/halogen bulb load 230 V	1000 W
Energy-saving lamps 230 V	7 x 7 W, 6 x 11 W, 5 x 15 W, 5 x 20 W, 5 x 23 W
Fluorescent lamp load is not compensated	800 VA
Fluorescent lamp load series compensated	800 VA
Fluorescent lamp load with parallel compensation	200 VA
Shortest switching time	1 s
Time accuracy	$\leq \pm 0,5$ s/day (Quartz)
Stand-by power	0,4 W
Approvals	VDE
Type of protection	IP 20
Protection class	II; EN 60 730-1
Ambient temperature	-25 °C ... +55 °C

DIMENSIONS



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Digital weekly time switch, 1 CO contact, small	9004840680904		BZT26440



no. blue: on stock, usually ready for delivery on the day of order!

DIGITAL DAY/WEEK TIMER 1 CO, 16A



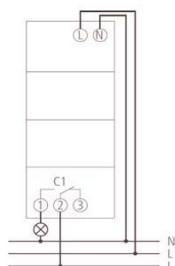
SCHRACK-INFO

- Digital time switch with daily and weekly program
- 1 Channel
- 28 Memories
- User interface with icons on the display
- Screw terminals
- Automatic summer-/winter time changeover
- Permanent ON/OFF
- ON-OFF switching times

TECHNICAL DATA

Operating voltage	220 – 230 V AC
Frequency	50 – 60 Hz
Width	2 modules
Installation type	DIN-rail
Power reserve	3 years
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	6 A
Incandescent-/halogen bulb load 230 V	1400 W
Energy-saving lamps 230 V	13 x 7 W, 13 x 11 W, 10 x 15 W, 8 x 23 W
Fluorescent lamp load is not compensated	1400 VA
Fluorescent lamp load series compensated	1400 VA
Fluorescent lamp load with parallel compensation	220 VA
Shortest switching time	1 s
Time accuracy	$\leq \pm 1 \text{ s/day}$ (Quartz)
Stand-by power	4,5 W
Approvals	VDE
Type of protection	IP 20
Protection class	II; EN 60 730-1
Ambient temperature	-20 °C ... +55 °C

WIRING EXAMPLE



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Digital day/week timer 1 CO, 16A	9004840681031		BZT28371

DIGITAL DAY/WEEK TIMER 2 CO, 16A



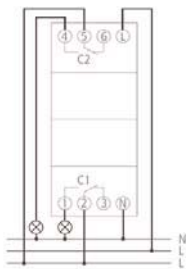
SCHRACK-INFO


- Digital time switch with daily and weekly program
- 2 Channel
- 56 Memorys
- User interface with icons on the display
- Screw terminals
- Automatic summer-/winter time changeover
- Permanent ON/OFF
- ON-OFF switching times

TECHNICAL DATA

Operating voltage	220 – 230 V AC
Frequency	50 – 60 Hz
Width	2 modules
Installation type	DIN-rail
Power reserve	3 years
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	6 A
Incandescent-/halogen bulb load 230 V	1400 W
Energy-saving lamps 230 V	13 x 7 W, 13 x 11 W, 10 x 15 W, 8 x 23 W
Fluorescent lamp load is not compensated	1400 VA
Fluorescent lamp load series compensated	1400 VA
Fluorescent lamp load with parallel compensation	220 VA
Shortest switching time	1 s
Time accuracy	$\leq \pm 1$ s/day (Quartz)
Stand-by power	4,5 W
Approvals	VDE
Type of protection	IP 20
Protection class	II; EN 60 730-1
Ambient temperature	-20 °C ... +55 °C

WIRING EXAMPLE



DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Digital day/week timer 2 CO, 16A	9004840681048		BZT28372



DIGITAL ASTRO-TIMER 1 CO, 16 A

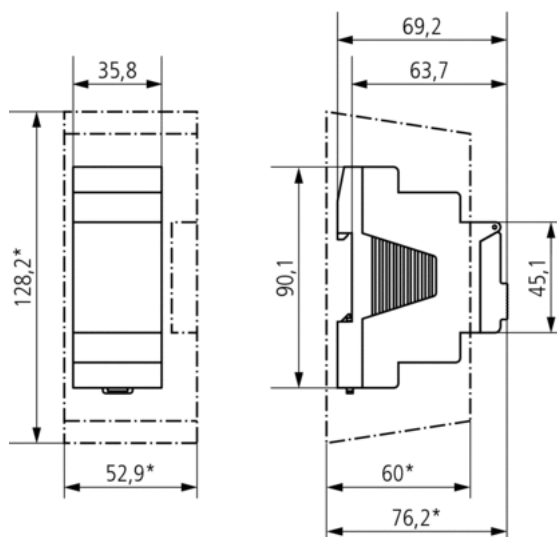


- Position data via coordinates or country/city lists can be programmed
- Fixed ON-OFF switching times can be programmed (e.g. night time interruption)
- Simulation of switching times (calculated astronomical times and programmed ON/OFF switching times)
- Reversible astronomical mode (evenings ON - mornings OFF or evenings OFF - mornings ON) or can be deactivated
- DuoFix spring terminals
 - For 2 conductors each
 - Wire or strand (with or without wire end sleeve)
 - Wire diameter: 0.5 - 2.5 mm²
 - Button for releasing plug-in connection
- Text-oriented user guidance in display
 - Preset date and time
 - fully operable without mains connection
- Interface for OBELISK top2 memory card (PC programming)
 - 2. insertable switching program
 - Copying programs
- Storing programs
- 10 year power reserve (lithium battery)
- Zero-cross switching for relay-saving switching and high lamp loads
- Calculated astronomical switching times
- Programmable ON-OFF switching times
- Switching preselection
- Permanent switching ON/OFF
- Integrated operating hour counter
 - Reset option
 - Service function for monitoring maintenance intervals
- Holiday program
- Display back light (can be turned off)
- PIN coding
- Automatic summer/winter time changeover
 - can be deactivated
 - Date rule options are already stored for Europe, the USA and other countries
 - own date rule options or changeover around set dates are available

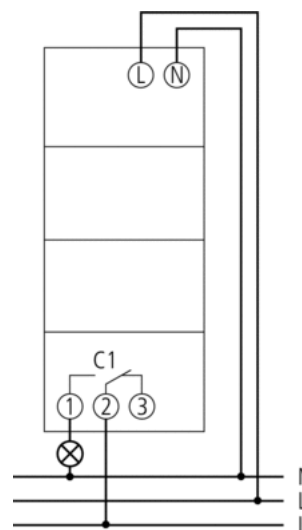
SCHRACK-INFO

- Astronomical time switch with weekly program
- 1 channel
- 54 memory locations
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
 - Offset for adjusting of sunrise and sunset times

DIMENSIONS



CONNECTION EXAMPLE



DIGITAL ASTRO-TIMER 1 CO, 16 A – continued

TECHNICAL DATA

Operating voltage	230 – 240 V AC
Frequency	50 – 60 Hz
Width	2 modules
Installation type	DIN rail
Type of contact	Changeover contact
Switching output	Potential-free and phase-independent
Opening width	< 3 mm (μ)
Program	Weekly program, Astronomical program
Program functions	ON-OFF
Number of channels	1
Number of memory locations	54
Power reserve	10 years
Switching capacity at 250 V AC, cos φ = 1	16 A
Switching capacity at 250 V AC, cos φ = 0,6	10 A
Incandescent/halogen lamp load 230 V	2600 W
Energy saving lamps 230 V	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W
Fluorescent lamp load (conventional) not corrected	2300 VA
Fluorescent lamp load (conventional) series-corrected	2300 VA
Fluorescent lamp load (conventional) parallel-corrected	730 VA
Fluorescent lamp load (electronic ballast)	400 VA
Switching capacity min.	ca. 10 mA
Shortest switching times	1 min
Time accuracy	≤ ± 0.5 s/day (quartz)
Time basis	Quartz
Stand-by consumption	0,8 W
Memory card supplied	–
Test approval	VDE
Type of connection	DuoFix spring terminals
Keyboards	4 touch buttons
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Type of protection	IP 20
Protection class	II as per EN 60 730-1
Ambient temperature	-30 °C ... +55 °C

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Digital Astro-Timer 1 CO, 16 A	9004840681055		BZT28A71

DIGITAL ASTRO-AND YEAR TIME SWITCH, 2 CO

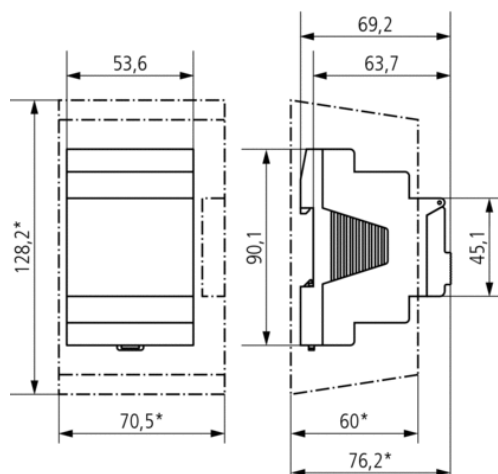


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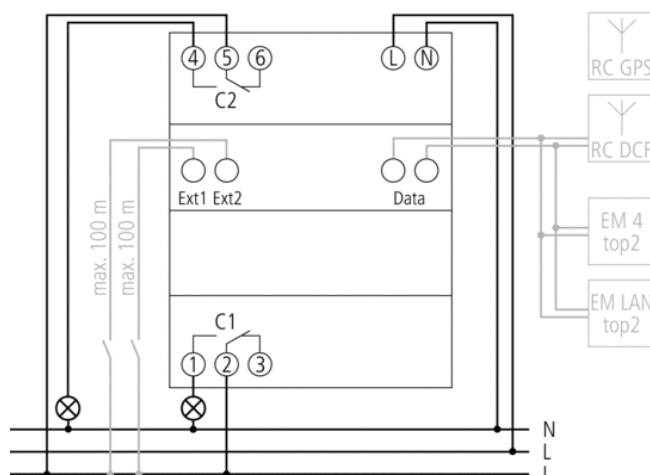
SCHRACK-INFO

- fully operable without mains connection
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
 - 2. insertable switching program
 - Copying programs
 - Storing programs
- OBELISK memory card included in delivery
- 10 year power reserve (lithium battery)
- Zero-cross switching for leay-saving switching and high lamp loads
- Automatic summer/winter time changeover
 - can be deactivated
 - Date rule options are already stored for Europe, the USA and other countries
 - own date rule options or changeover around set dates are available
- ON-OFF switching times
- Pulse program
- Cycle program
- Extensive yearly clock functions
 - Basic weekly program and 14 different weekly programs with priority levels and date ranges
 - Permanent ON / permanent OFF with highest priority via date range program option
 - fixed and variable public holidays, public holidays dependent on Easter, day and date ranges with serial pattern
 - Public holiday database for Germany including all Federal states, Switzerland, France etc.
- Program simulation on clock display
- Graphic program simulation with 12 month overview for all channels on PC
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
 - Offset for adjusting of sunrise and sunset times
 - Position data via coordinates or country/city lists can be programmed
 - Optional production of own city list (favourites) and a table with own astronomical times on PC
 - Fixed ON-OFF switching times can be programmed (e.g. night time interruption)
 - Simulation of astronomical switching times (calculated astronomical times and programmed ON/OFF switching times) for the whole year
 - various astronomical setting options (evening ON - mornings OFF or evenings OFF - mornings ON, astronomical pulse)
- Switching preselection
- Permanent switching ON/OFF
- Count-down timer
- Integrated operating hour counter
 - Reset option
 - Service function for monitoring maintenance intervals
- Holiday program
- 2 random programs
- Display back light (can be turned off)
- PIN coding

DIMENSIONS




CONNECTION EXAMPLE



DIGITAL ASTRO-AND YEAR TIME SWITCH, 2 CO – continued

TECHNICAL DATA

Operating voltage	110 – 240 V AC
Frequency	50 – 60 Hz
Width	3 modules
Installation type	DIN rail
Type of contact	Changeover contact
Switching output	Phase-independent (Zero-cross switching)
Opening width	< 3 mm
Program	Yearly program, Astronomical program
Program functions	ON-OFF, Pulse, Cycle
Number of channels	2
External inputs	2
Number of memory locations	800
Power reserve	8 years
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	10 A
Incandescent/halogen lamp load 230 V	2600 W
Incandescent/halogen lamp load 120 V	700 W
Energy saving lamps 230 V	37 x 7 W, 30 x 11 W, 26 x 15 W, 26 x 20 W, 11 x 23 W
Energy saving lamps 120 V	18 x 7 W, 15 x 11 W, 13 x 15 W, 13 x 20 W, 11 x 23 W
Switching capacity min.	ca. 10 mA
Shortest switching times	1 s
Time accuracy	$\leq \pm 0,5$ s/day (quartz) or DCF77/GPS
Time basis	Quartz/DCF77/GPS
Stand-by consumption	1,2 W
Memory card supplied	✓
Type of connection	DuoFix spring terminals
Keyboards	4 touch buttons
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Type of protection	IP 20
Protection class	II as per EN 60 730-1
Ambient temperature	-30 °C ... +55 °C

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Digital astro- and year time switch, 2 CO	9004840680959		BZT27662



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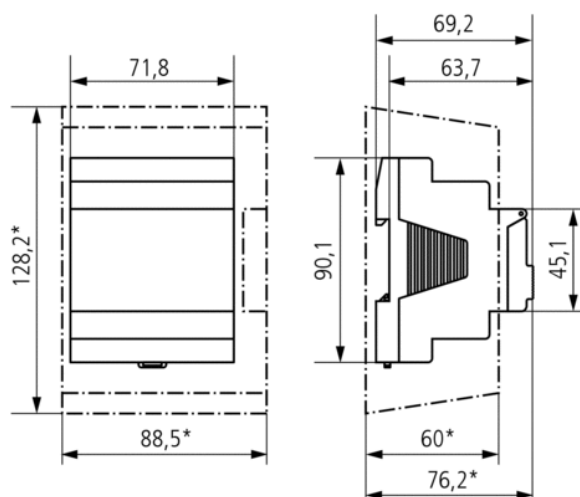
DIGITAL ASTRO-AND YEAR TIME SWITCH, 4 CO



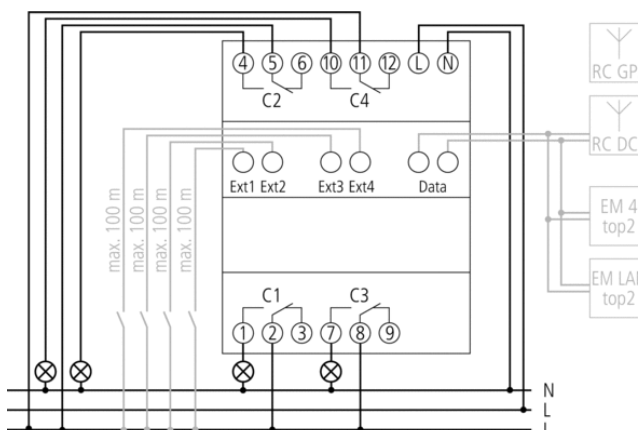
SCHRACK-INFO

- Digital time switch with yearly and astronomical time program
- Time synchronisation via connection of external DCF or GPS antennas, additional positioning for astronomical program with GPS
- 4 channels
- 4 external inputs
 - Connectable sensors (external selector switch, sequence timer)
 - Connectable switches (ON or OFF permanent switching)
- Extension module can be connected
- Memory card OBELISK top2 included in delivery
- DuoFix spring terminals
 - For 2 conductors each
 - Wire or strand (with or without wire end sleeve)
 - Wire diameter: 0.5 - 2.5 mm²
 - Button for releasing plug-in connection
- Text-oriented user guidance in display
 - Preset date and time
- fully operable without mains connection
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
 - 2. insertable switching program
 - Copying programs
 - Storing programs
- OBELISK memory card included in delivery
- 10 year power reserve (lithium battery)
- Zero-cross switching for leay-saving switching and high lamp loads
- Automatic summer/winter time changeover
 - can be deactivated
 - Date rule options are already stored for Europe, the USA and other countries
 - own date rule options or changeover around set dates are available
- ON-OFF switching times
- Pulse program
- Cycle program
- Extensive yearly clock functions
 - Basic weekly program and 14 different weekly programs with priority levels and date ranges
 - Permanent ON / permanent OFF with highest priority via date range program option
 - fixed and variable public holidays, public holidays dependent on Easter, day and date ranges with serial pattern
 - Public holiday database for Germany including all Federal states, Switzerland, France etc.
- Program simulation on clock display
- Graphic program simulation with 12 month overview for all channels on PC
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
 - Offset for adjusting of sunrise and sunset times
 - Position data via coordinates or country/city lists can be programmed
 - Optional production of own city list (favourites) and a table with own astronomical times on PC
 - Fixed ON-OFF switching times can be programmed (e.g. night time interruption)
 - Simulation of astronomical switching times (calculated astronomical times and programmed ON/OFF switching times) for the whole year
 - various astronomical setting options (evening ON - mornings OFF or evenings OFF - mornings ON, astronomical pulse)
- Switching preselection
- Permanent switching ON/OFF
- Count-down timer
- Integrated operating hour counter
 - Reset option
 - Service function for monitoring maintenance intervals
- Holiday program
- 2 random programs
- Display back light (can be turned off)
- PIN coding

DIMENSIONS




CONNECTION EXAMPLE



■ DIGITAL ASTRO-AND YEAR TIME SWITCH, 4 CO – continued

■ TECHNICAL DATA

Operating voltage	110 – 240 V AC
Frequency	50 – 60 Hz
Width	4 modules
Installation type	DIN rail
Type of contact	Changeover contact
Switching output	Phase-independent (Zero-cross switching)
Opening width	< 3 mm
Program	Yearly program, Astronomical program
Program functions	ON-OFF, Pulse, Cycle
Number of channels	4
External inputs	4
Number of memory locations	800
Power reserve	8 years
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity channels 1+3	10 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	10 A
Incandescent/halogen lamp load 230 V	2300 W
Incandescent/halogen lamp load 120 V	1150 W
Energy saving lamps 230 V	37 x 7 W, 30 x 11 W, 26 x 15 W, 26 x 20 W, 11 x 23 W
Energy saving lamps 120 V	18 x 7 W, 15 x 11 W, 13 x 15 W, 13 x 20 W, 11 x 23 W
Switching capacity min.	ca. 10 mA
Shortest switching times	1 s
Time accuracy	$\leq \pm 0,5$ s/day (quartz) or DCF77/GPS
Time basis	Quartz/DCF77/GPS
Stand-by consumption	1,3 W
Memory card supplied	✓
Type of connection	DuoFix spring terminals
Keyboards	4 touch buttons
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Type of protection	IP 20
Protection class	II as per EN 60 730-1
Ambient temperature	-30 °C ... +45 °C

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Digital astro- and year time switch, 4 CO	9004840680966		BZT27664



no. blue: on stock, usually ready for delivery on the day of order!

- Analogue adjustable switching brightness
- Adjustable On and Off switching delay
 - to avoid switching errors caused by lightning, car headlights etc. Preset 1 minute
- Switching brightness and switching delay can be set separately for switching On and Off
- Fixed ON and OFF times (e.g. nighttime interruption)
 - can be programmed independent of brightness
- Onscreen display of channel and switching status
- DuoFix spring terminals
 - for 2 conductors per connection terminal
- Zero-cross switching for relay-saving switching and high lamp loads
- Interface for OBELISK top2 memory card (PC programming)
 - 2. insertable switching program
 - Copying programs
 - Storing programs
- Holiday program with yearly function
- Different summer/winter time rules can be selected or freely defined
- Permanent switching ON/OFF
- Test function
 - (Permanent ON) to check the installation independently of set brightness value
- Switching preselection
- Display back light (can be turned off)
- PIN coding
- Operating hours counter (with reminder function)

- Twilight switch with integrated weekly timer
- External light sensor included in delivery

Technical drawing of a 100 mm x 100 mm x 100 mm cube. The drawing shows the front and side views. The front view shows a cube with a width of 100 mm and a height of 100 mm. The side view shows a cube with a width of 100 mm and a height of 100 mm. The drawing includes dimensions for the cube's edges and internal features.

Dimensions (mm):

- Front View:
 - Width: 100
 - Height: 100
- Side View:
 - Width: 100
 - Height: 100

DIGITAL PHOTOELECTRIC SWITCH, 1 CO – continued

TECHNICAL DATA

Operating voltage	220 – 240 V AC
Frequency	50 – 60 Hz
Number of channels	1
Number of memory locations	56
Stand-by consumption	1,3 W
Program	Weekly program
Additional program	Holiday program
Time basis	Quartz
Setting range brightness	2 – 2000 lx
Switch-on delay	0 – 59 min
Switch-off delay	0 – 59 min
Type of contact	Changeover contact
Switching output	Potential-free, not for SELV
Width	3 modules
Installation type	DIN rail
Type of connection	DuoFix spring terminals
Keyboards	4 touch buttons, 1 potentiometer
Shortest switching times	1 min
Power reserve	10 years, at 20 °C
Switching capacity	16 A (at 250 V AC, $\cos \varphi = 1$), 10 A (at 250 V AC, $\cos \varphi = 0.6$), 10 AX (Fluorescent lamp load)
Switching capacity min.	<10 mA
Incandescent lamp load	2600 W
Halogen lamp load	2600 W
Fluorescent lamp load (conventional) not corrected	2300 VA
Fluorescent lamp load (conventional) series-corrected	2300 VA
Fluorescent lamp load (conventional) lead-lag circuit	2300 VA
Fluorescent lamp load (conventional) parallel-corrected	800 VA, 80 μ F
Energy saving lamps	22 x 7 W, 18 x 11 W, 16 x 15 W, 16 x 20 W, 14 x 23 W
Fluorescent lamp load (electronic ballast)	650 VA
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Ambient temperature	-30 °C ... +55 °C
Type of protection	IP 20, sensor IP 55
Protection class	II, Sensor III
Max. cable length to sensor	100 m

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Digital photoelectric switch, 1 CO	9004840680980		BZT27731



no. blue: on stock, usually ready for delivery on the day of order!

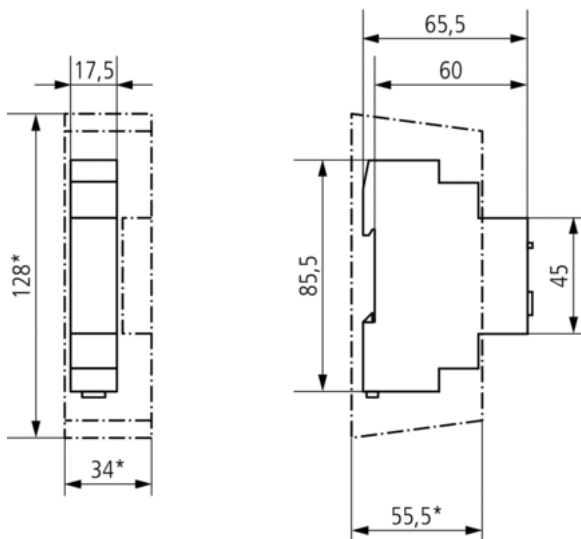
ANALOGUE PHOTOELECTRIC SWITCH, 1 CO, 1 ME



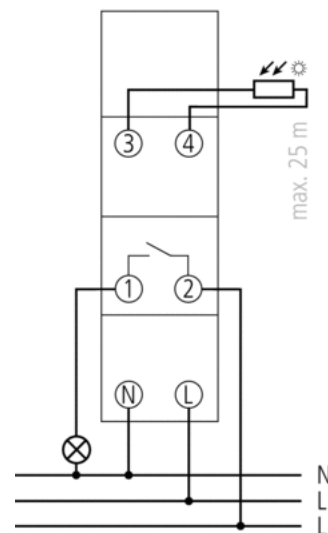
SCHRACK-INFO

- Analogue twilight switch
- External light sensor included in delivery
- Fixed On and Off switching delay
 - to avoid faulty operation caused by lightning, car headlights etc.
- Display of channel and switching status
- Infinitely adjustable switching brightness

DIMENSIONS




CONNECTION EXAMPLE



ANALOGUE PHOTOELECTRIC SWITCH, 1 CO, 1 ME – continued

TECHNICAL DATA

Operating voltage	220 – 240 V AC
Frequency	50 – 60 Hz
Number of channels	1
Stand-by consumption	0,8 W
Setting range brightness	2 – 100 lx
Switch-on delay	20 s
Switch-off delay	80 s
Type of contact	NO contact
Switching output	Potential-free
Width	1 modules
Installation type	DIN rail
Type of connection	Screw terminals
Switching capacity	16 A (at 250 V AC, $\cos \varphi = 1$), 10 AX (Fluorescent lamp load)
Incandescent lamp load	2300 W
Halogen lamp load	2300 W
Fluorescent lamp load (conventional) not corrected	2300 VA
Fluorescent lamp load (conventional) series-corrected	2300 VA
Fluorescent lamp load (conventional) lead-lag circuit	2300 VA
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μ F
Energy saving lamps	9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W
Fluorescent lamp load (electronic ballast)	300 VA
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Ambient temperature	-25 °C ... +50 °C
Type of protection	IP 20, sensor IP 54
Protection class	II
Max. cable length to sensor	25 m

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Analogue photoelectric switch, 1 CO, 1 ME	9004840680973		BZT27711



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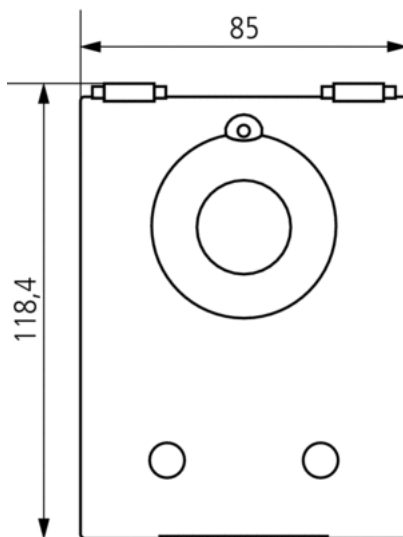
WALL PHOTOELECTRIC SWITCH WITH INTEGRATED LIGHT SENSOR



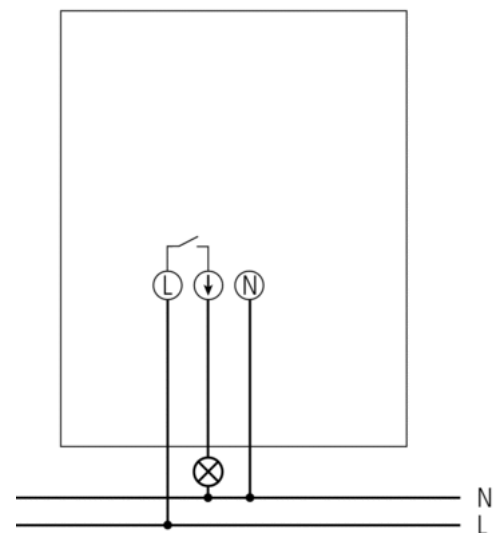
SCHRACK-INFO

- Twilight switch with integrated light sensor
- Fixed On and Off switching delay
 - to avoid faulty operation caused by lightning, car headlights etc.
- Cable feed from the back and from below
 - Cover with snap-on function when opening for the straightforward installation of the device
- Captive screws
- Large terminal area
- Brightness value can be set without opening the device
- Large light exposure angle (approx. 180 degrees)
- Infinitely adjustable switching brightness
- Test button
 - for monitoring installation independent of set brightness value. The button can be accessed without opening the device

DIMENSIONS



CONNECTION EXAMPLE



WALL PHOTOELECTRIC SWITCH WITH INTEGRATED LIGHT SENSOR – continued

TECHNICAL DATA

Operating voltage	220 – 230 V AC
Frequency	50 – 60 Hz
Number of channels	1
Stand-by consumption	0,6 W
Setting range brightness	5 – 200 lx
Preset brightness value	15 lx
Switch-on delay	40 s
Switch-off delay	40 s
Type of contact	NO contact
Switching output	Not potential-free (230 V)
Installation type	Wall installation or mast bracket
Type of connection	Screw terminals
Switching capacity	16 A (at 230 V AC, $\cos \varphi = 1$), 10 AX (at 230 V AC, $\cos \varphi = 0.3$)
Incandescent lamp load	2300 W
Halogen lamp load	2300 W
Fluorescent lamp load (conventional) not corrected	2300 VA
Fluorescent lamp load (conventional) series-corrected	2300 VA
Fluorescent lamp load (conventional) lead-lag circuit	2300 VA
Fluorescent lamp load (conventional) parallel-corrected	400 VA, 42 μ F
Energy saving lamps	9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W, 7 x 23 W
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Ambient temperature	-35 °C ... +55 °C
Type of protection	IP 55
Protection class	II

DESCRIPTION	EAN CODE	AVAILABLE	ORDER NO.
Wall photoelectric switch with integrated light sensor	9004840680997		BZT27800



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