

STAIR SWITCHES

**Stair switch MQA..**

- Mainly for control of lighting circuits from more points in a corridor, on stairs, in the whole house etc.
- Possibility of 3-wire or 4-wire connection.
- Time setting (0.5 ÷ 10 min) by the knob on the front panel of the device.
- Max. 50 control push-buttons with glow lamp 1 mA.

Type	Product code	Number of modules	Weight [kg]	Package [pcs]
MQA-16-100-A230	37210	1	0.086	1

**Stair switch MQB..**

- Mainly for control of lighting circuits from more points in a corridor, on stairs, in the whole house etc.
- Possibility of 3-wire or 4-wire connection.
- Time setting (0.5 ÷ 10 min) by the knob on the front panel of the device.
- If the control push-button is pressed longer than 1 s, the stair switch will switch on for a time four times longer than the set time.
- Max. 50 control push-buttons with glow lamp 1 mA.
- Warning before expiration of the set time - 20 and 40 seconds before expiration of the set time the stair switch warns by indicator short flashing of oncoming end of timing.

Type	Product code	Number of modules	Weight [kg]	Package [pcs]
MQB-16-100-A230	37211	1	0.086	1




**Stair switch MQC..**

- Mainly for control of lighting circuits from more points in a corridor, on stairs, in the whole house etc.
- Possibility of 3-wire or 4-wire connection.
- Time setting (3 ÷ 60 min) by the knob on the front panel of the device.
- Max. 50 control push-buttons with glow lamp 1 mA.
- Warning before expiration of the set time - 20 and 40 seconds before expiration of the set time the stair switch warns by indicator short flashing of oncoming end of timing.
- The timing is terminated by pressing the push-button again before 40 seconds to the end of the set time. The timing cycle is restarted by pressing the push-button again 40 or less seconds to the end of the set time.

Type	Product code	Number of modules	Weight [kg]	Package [pcs]
MQC-16-100-A230	37830	1	0.086	1

STAIR SWITCHES

Specifications

Type		MQA-16-100-A230	MQB-16-100-A230	MQC-16-100-A230
Standards		EN 60 669	EN 60 669	EN 61 812-1
Approval marks				
Main circuit (contact)				
Arrangement of contacts ¹⁾		10	10	10
Rated operating voltage	U_e	250 V a.c.	250 V a.c.	250 V a.c.
Rated current	I_n AC-1	16 A	16 A	16 A
Inductive load	$\cos\phi$ 0.6	10 A	10 A	10 A
Lamp load max.		2000 W	2000 W	2000 W
Max. fluorescent tube load	uncompensated	20 pcs 58 W	20 pcs 58 W	20 pcs 58 W
	compensated in series	40 pcs 58 W	40 pcs 58 W	40 pcs 58 W
	duo connection	2x 20 pcs 58 W	2x 20 pcs 58 W	2x 20 pcs 58 W
	EVG = electronic ballast	5 pcs 20 W	5 pcs 20 W	5 pcs 20 W
	Siemens ECG	10 pcs 58 W	10 pcs 58 W	10 pcs 58 W
Min. switched power		10 V / 300 mA	10 V / 300 mA	10 V / 300 mA
Rated frequency	f_n	50/60 Hz	50/60 Hz	50/60 Hz
Connection		1.5 ÷ 6 mm ²	1.5 ÷ 6 mm ²	1.5 ÷ 6 mm ²
Torque		1.2 Nm	1.2 Nm	1.2 Nm
Control circuit				
Rated control voltage	U_c	230 V a.c.	230 V a.c.	230 V a.c.
Range of control voltage		90 ÷ 110 % U_c	90 ÷ 110 % U_c	90 ÷ 110 % U_c
Rated frequency	f_n	50 Hz	50 Hz	50 Hz
Power loss	at standstill	0.7 W	1 W	1 W
	at timing process	3.5 W	1.7 W	1.7 W
Time setting		0.5 ÷ 10 min	0.5 ÷ 10 min	3 ÷ 60 min
Min. excitation time		30 ms	30 ms	30 ms
Max. excitation time ²⁾		compensated	compensated	compensated
Max. number of push-buttons with glow lamp 1 mA		50 pcs	50 pcs	50 pcs
Reset by next impulse		yes	yes	yes
Additional extension of the set time		no	yes ³⁾	no
Warning before end of timing		no	yes ⁴⁾	yes ⁴⁾
Connection		1.5 ÷ 6 mm ²	1.5 ÷ 6 mm ²	1.5 ÷ 6 mm ²
Torque		1.2 Nm	1.2 Nm	1.2 Nm
Other data				
Mounting on "U" rail according to EN 60715 - type		TH 35	TH 35	TH 35
Degree of protection		IP20	IP20	IP20
Ambient temperature		-10 ÷ + 50 °C	-10 ÷ + 50 °C	-10 ÷ + 50 °C
Working position		arbitrary	arbitrary	arbitrary

¹⁾ Each digit indicates successively the number of make and break contacts.

²⁾ The device is able to withstand permanent load either in switching the manual change-over switch on the front panel of the device or in control push-button locking.

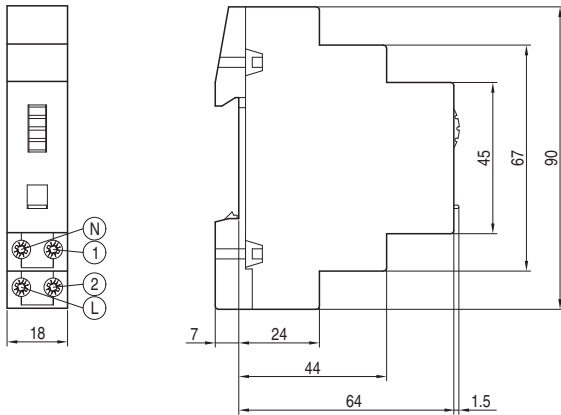
³⁾ If the control push-button is closed for more than 1 s, the set time is extended four times.

⁴⁾ 20 and 40 seconds before expiration of the set time the stair switch warns by indicator short flashing of oncoming end of timing.

STAIR SWITCHES

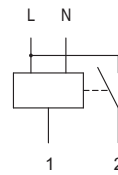
Dimensions

MQA-16-100-A230, MQB-16-100-A230, MQC-16-100-A230



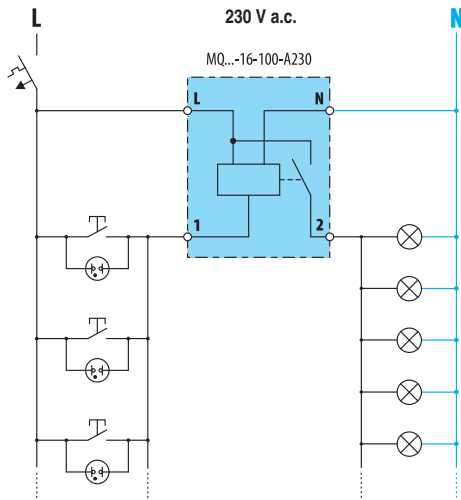
Diagram

MQA-16-100-A230
MQB-16-100-A230
MQC-16-100-A230



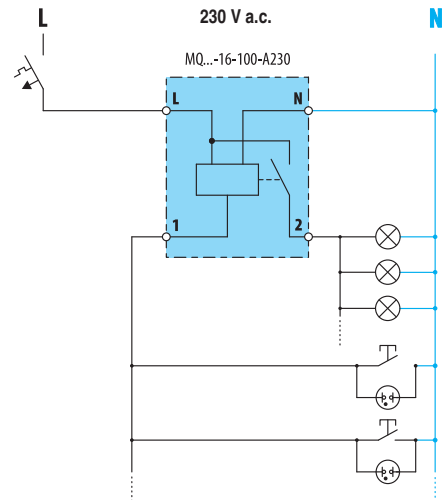
Connection examples

4-wire connection



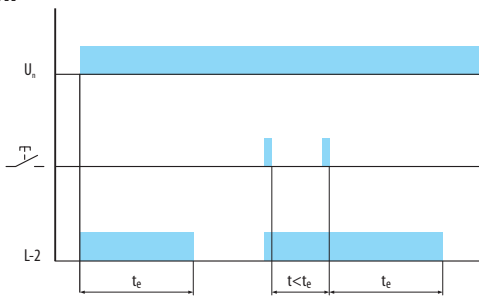
Stair switch is controlled by switching of the phase conductor.
This connection is used mainly in new installations.

3-wire connection

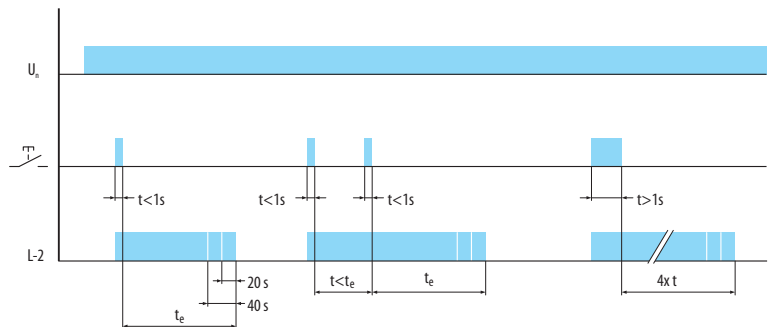


Stair switch is controlled by switching of the N-conductor.
This connection is used only in old installations.

Graph MQA-16-100-A230



MQB-16-100-A230



MQC-16-100-A230

