

## 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]
<b>MQA-16-100-A230</b>	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 signals by short indicator flashing of incoming end of timing

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

**Specification**

Type		MQA-16-100-A230	MQB-16-100-A230
Standards		EN 61812-1	EN 61812-1
Approval marks			
<b>Main circuit (contact)</b>			
Sequence <sup>1)</sup>		10	10
Rated operating voltage	$U_e$	250 V a.c.	250 V a.c.
Rated current	$I_n$ AC-1	16 A	16 A
Inductive load	$\cos\phi$ 0,6	10 A	10 A
Lamp load max.		2000 W	2000 W
Max. fluorescent tube load	uncompensated	20 pcs 58 W	20x 58 W
	compensated in series	40 pcs 58 W	40 pcs 58 W
	duo connection	2x 20 pcs 58 W	2x 20 pcs 58 W
	EVG = electronic ballast	5 pcs 20 W	5 pcs 20 W
	Siemens ECG	10 pcs 58 W	10 pcs 58 W
Min. switched power		10 V / 300 mA	10 V / 300 mA
Rated frequency	$f_n$	50 Hz	50 Hz
Connection		1.5 ÷ 6 mm <sup>2</sup>	1.5 ÷ 6 mm <sup>2</sup>
Torque		1.2 Nm	1.2 Nm
<b>Control circuit</b>			
Rated control voltage	$U_c$	230 V a.c.	230 V a.c.
Range of control voltage		90 ÷ 110 % $U_c$	90 ÷ 110 % $U_c$
Rated frequency	$f_n$	50 Hz	50 Hz
Min. excitation time		30 ms	30 ms
Max. excitation time <sup>2)</sup>		compensated	compensated
Max. number of push-buttons with glow lamp 1 mA		50 pcs	50 pcs
Reset by next impulse		yes	yes
Additional extension of the set time		no	yes <sup>3)</sup>
Warning before end of timing		no	yes <sup>4)</sup>
Connection		1.5 ÷ 6 mm <sup>2</sup>	1.5 ÷ 6 mm <sup>2</sup>
Torque		1.2 Nm	1.2 Nm
<b>Other data</b>			
Mounting on "U" rail according to EN 60715 - type		TH 35	TH 35
Degree of protection		IP20	IP20
Ambient temperature		-10 ÷ + 50 °C	-10 ÷ + 50 °C
Working position		arbitrary	arbitrary

<sup>1)</sup> Each digit indicates successively the number of make and break contacts

<sup>2)</sup> 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

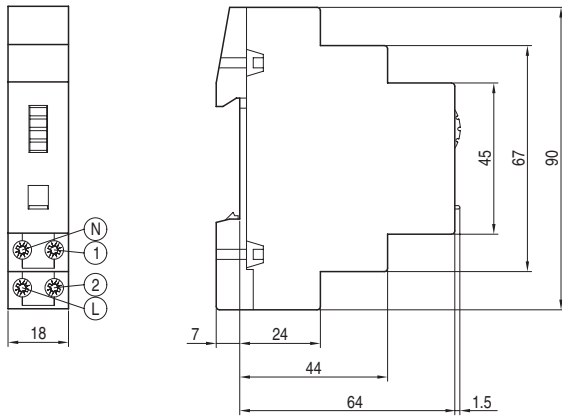
<sup>3)</sup> If the control push-button is closed for more than 1 s, the set time is extended four times

<sup>4)</sup> 20 and 40 seconds before expiration of the set time the stair switch signals by short indicator flashing of incoming end of timing

# STAIR SWITCHES

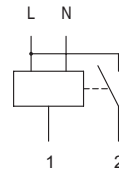
## Dimensions

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



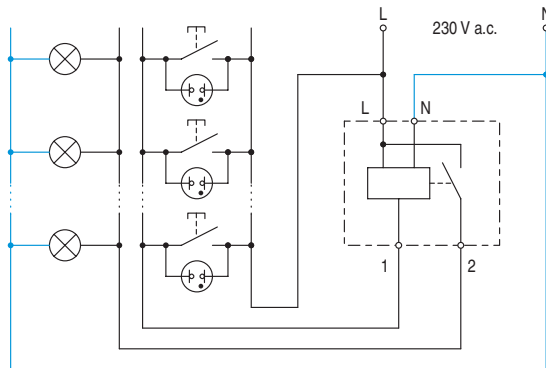
## Diagram

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



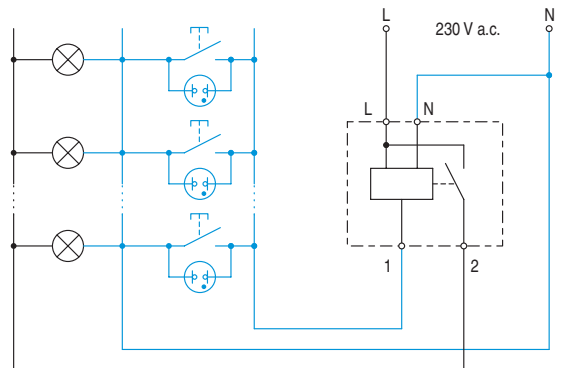
## Connection examples

### 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.

**STAIR SWITCHES****Graph**