

IMPULSE MEMORY RELAYS MIR



Impulse memory relays - extra quiet

- For electric circuit switching up to 16 A by impulse command.
- Mainly for control of lighting circuits from more points in a corridor, on stairs, in the whole house etc.
- The lighting circuits can be controlled by push-buttons instead of a combination of crossbar and three-way switches.
- It saves conductors - it is possible to use smaller cross-sections for the control circuit than for power circuit.
- It brings higher comfort of control - for example it is possible to switch off all lights by one push-button when leaving the house.
- The relay does not need permanent power supply; it is supplied only for the time of control impulse duration.
- The position of the make-and-break contact can only be changed by applying an impulse on the following inputs (supply voltage failures have no effect):
 - ON/OFF input - each impulse led on this input changes the contact position (local control of the impulse relay).
 - ON input - each impulse led on this input switches the contact to position 11-14.
 - OFF input - each impulse led on this input switches the contact to position 11-12.

Control voltage U_c	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
AC 230 V	MIR-16-001-A230	OEZ:35675	1	0.085	1



Accessories

Compensation block OD-MIR-BK

- It enables control of relay by more than 15 control push-buttons with glow discharge tube.
- Connection: parallel with MIR.
- Rated voltage: AC 230 V.
- Max. voltage: AC 400 V.
- 9 capacity: 3 x 1 μ F.

Type	Order code	Number of modules	Weight [kg]	Package [pcs]
OD-MIR-BK	OEZ:35676	1	0.055	1




Multi-level central control block OD-MIR-CO

- It enables multi-level central control of MIR.
- Rated voltage: AC 230 V.
- Description: each impulse memory relay is locally controlled by push-buttons (local control); each level or set of impulse memory relays is controlled simultaneously from a point (central control); all levels are jointly controlled by a single command from a point (central control); all levels are jointly controlled by a single command from a point (central multi-level control).

Type	Order code	Number of modules	Weight [kg]	Package [pcs]
OD-MIR-CO	OEZ:35677	1	0.05	1

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Specifications

Type		MIR-16-001-A230	
Standards		EN 61812-1	
Approval marks			
Main circuit (contact)			
Arrangement of contacts ^{1) 2)}		001	
Rated operating voltage	U_e	AC 250 V	
Rated current	I_n	AC-1	16 A
		AC-5a	2 A
Max. switched power ²⁾		4 000 VA	
Lamp load max.		460 W / 230 V	
Max. fluorescent tube load	compensated $\cos \varphi = 0.8$		8x 36 W
	uncompensated $\cos \varphi = 0.5$		25x 36 W, 13x 65 W
Min. switched power		50 mW (10 V / 5 mA)	
Rated frequency	f_n	50 Hz	
Mechanical endurance		10 000 000 cycles	
Electrical endurance		100 000 cycles	
Switching frequency		10 cycles/min	
Connection		0.2 ÷ 2.5 mm ²	
Torque		0.5 Nm	
Control circuit			
Rated voltage	U_c	AC 230 V	
Rated frequency	f_n	50 Hz	
Min. excitation time		200 ms	
Max. excitation time		unlimited	
Min. time period between pulses		1 s	
Max. number of push-buttons with glow lamp 1.1 mA		15 ks ³⁾	
Connection		0.2 ÷ 2.5 mm ²	
Torque		0.5 Nm	
Other data			
Mounting on "U" rail according to EN 60715 - type		TH 35	
Degree of protection		IP20	
Ambient temperature		-20 ÷ + 50 °C	
Working position		arbitrary	

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

²⁾ Different contact sequence or load increase can be solved by the use of installation contactors RSI

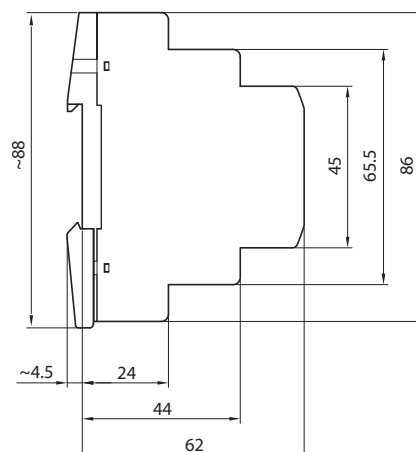
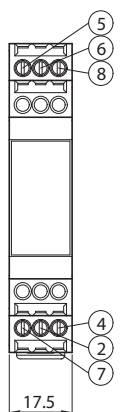
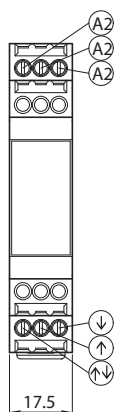
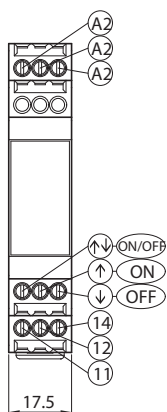
³⁾ On ON input and OFF output there must be the same number of push-buttons with a glow discharge tube. For the number of push-buttons with a glow discharge tube higher than 15 it is necessary to use the compensation block OD-MIR-BK

Dimensions

MIR-16-001-A230

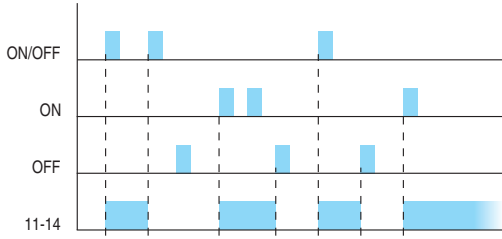
OD-MIR-BK

OD-MIR-CO

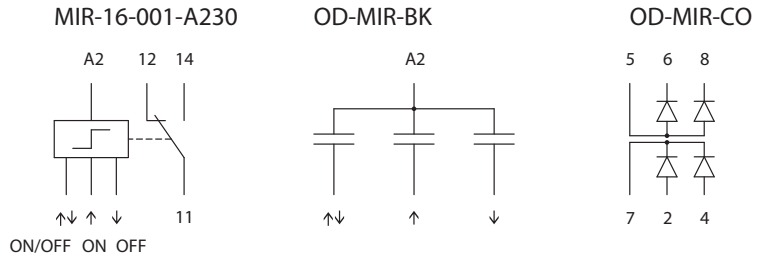


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Graph



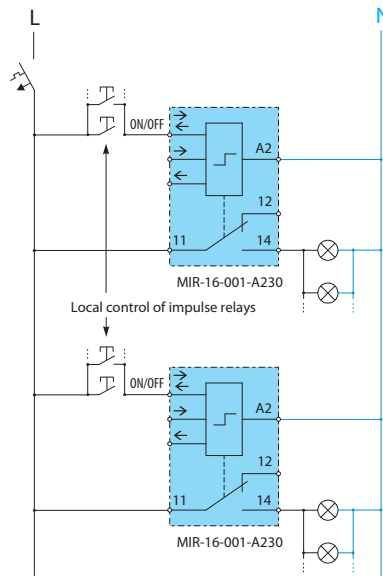
Diagram



Connection examples

Local control

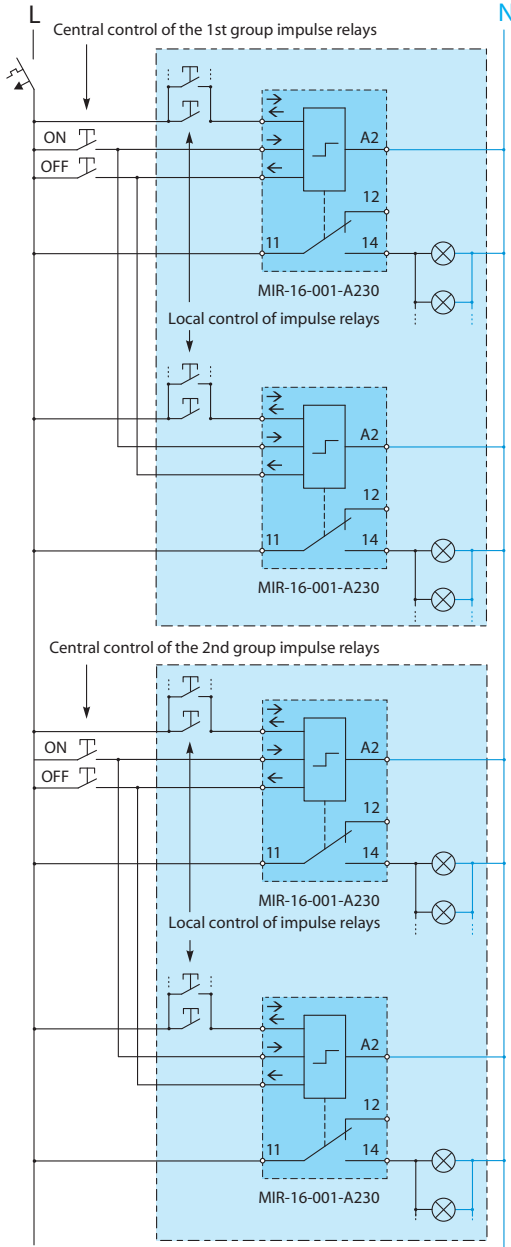
- Each impulse relay is locally controlled by push-buttons.



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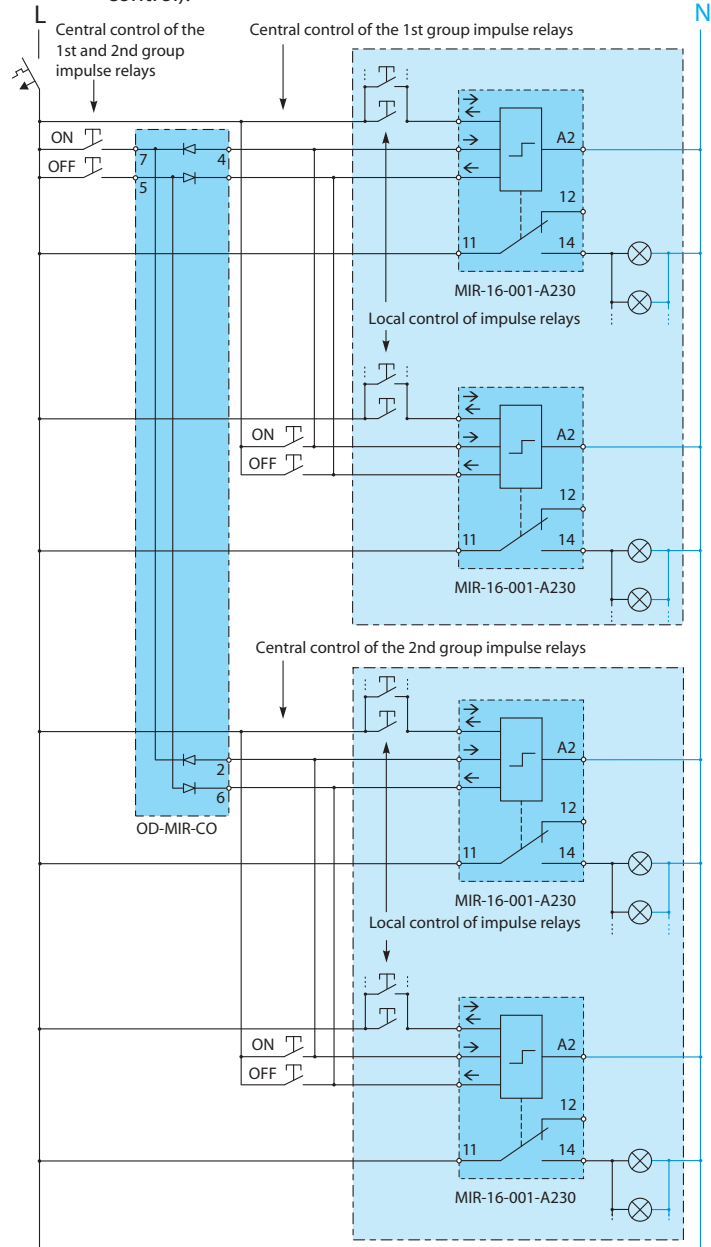
Local + central control

- Each impulse relay is locally controlled by push-buttons (local control); each level or set of impulse relays is controlled simultaneously from a point (central control).



Local + central + central multi-level control

- Each impulse relay is locally controlled by push-buttons (local control); each level or set of impulse relays is controlled simultaneously from a point (central control); all levels are jointly controlled by a single command from a point (central multi-level control).



Connection of signalling of pushed button

- When the connection of signalling of pushed button is done according to the figure relay can be controlled only by ON/OFF input. In such case of signalling connection when the ON or OFF button is pushed the current is closed through the relay electronics and thus can damage it.

