

MIR-16-001-A230

Impulse relay - electronic

- For electric circuit switching up to 16 A by impulse command from more points in a corridor, on stairs, in the whole house etc.
- Mainly for control of low power lighting circuits, with accent on limitation of noise in switching.
- The lighting circuits can be controlled by push-buttons instead of a combination of crossbar and three-way switches.
- Saving on the cost of wires 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.

Туре	Order	Number	Weight	Package
	code	of modules	[kg]	[pcs]
MIR-16-001-A230	0EZ:35675	1	0.085	1



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.
- **Capacity:** 3x 1 μF.

Туре	Order	Number	Weight	Package
	code	of modules	[kg]	[pcs]
OD-MIR-BK	0EZ:35676	1	0.055	1



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OD-MIR-BK



OD-MIR-CO

Multi-level central control block OD-MIR-CO

- It enables multi-level central control of MIR.
- Rated voltage: AC 230 V.
- Each impulse memory relay is locally controlled by push-buttons (local control); each level or set of im-

pulse memory relays is controlled simultaneously from relevant point (central control); all levels are jointly controlled by a single command from a point (multi-level central control).

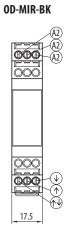
Туре	Order	Number	Weight	Package
	code	of modules	[kg]	[pcs]
OD-MIR-CO	0EZ:35677	1	0.05	1

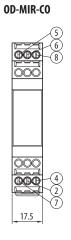
Specifications

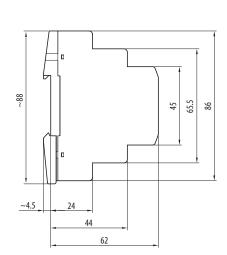
Туре			MIR-16-001-A230
Standards			EN 60669-1
Approval marks			® C € FHI
Main circuit (contact)			
Arrangement of contacts 1) 2)			001
Rated operating voltage	U _e		AC 250 V
Rated current	I _n	AC-1	16 A
		AC-5a	1.6 A
Max. switched power 2)			4 000 VA
Lamp load max.			460 W / 230 V
Max. fluorescent tube load		compensated $\cos \varphi = 0.8$	8x 36 W
		uncompensated $\cos \phi = 0.5$	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 operating cycles
Electrical endurance			100 000 operating cycles
Switching frequency			10 operating cycles/min
Connection			$0.2 \div 2.5 \text{ mm}^2$
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 pcs ³⁾
Connection			$0.2 \div 2.5~\text{mm}^2$
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.

Dimensions



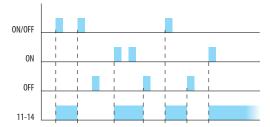




 $^{^{\}rm 2)}$ Different contact sequence or load increase can be solved by the use of installation contactors RSI.

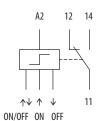
³⁾ On ON input and OFF output there must be the same number of push-buttons with a glow discharge tube. For the number of push-buttons with a glow discharge tube higher than 15 it is necessary to use the compensation block OD-MIR-BK.

Graph

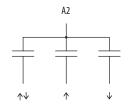


Diagram

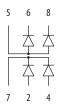
MIR-16-001-A230



OD-MIR-BK



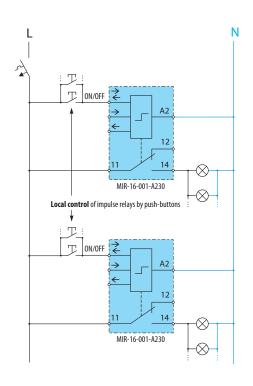
OD-MIR-CO



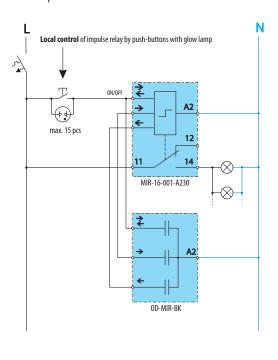
Connection examples

Local control

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

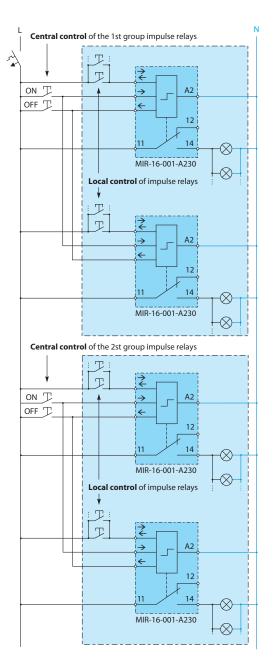


Impulse relay is locally controlled by push-buttons with glow lamp.



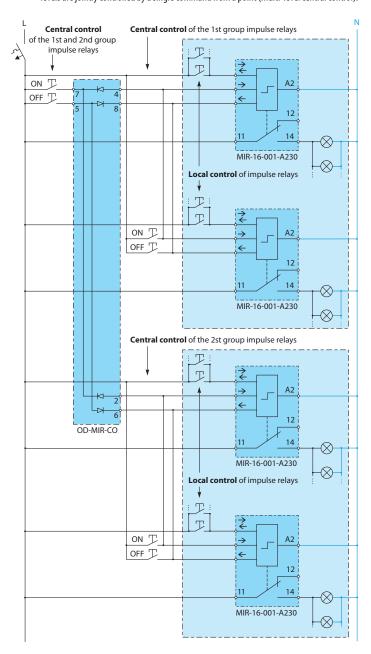
Local + central control

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



Local + central + multi-level central control

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

