


BIR

Impulse relay

Application

- Closing of the impulse relay pole(s) is triggered by an impulse on the coil.
- Having two stable mechanical positions, the pole(s) will be opened by the next impulse. Each impulse received by the coil reverses the position of the pole(s).
- Can be controlled by an unlimited number of pushbuttons.
- Zero energy consumption.

Impulse relays



BIR

- The impulse relays are used to control, by means of pushbuttons, lighting circuits consisting of:
 - incandescent lamps, low-voltage halogen lamps, etc. (resistive loads)
 - fluorescent lamps, discharge lamps, etc. (inductive loads)
- Standard: IEC/EN 60669-2-2

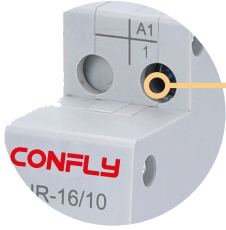
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Yellow clip

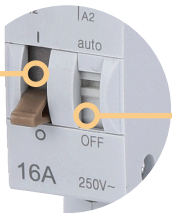
- A simple clip-on system for flexible auxiliaries combination and improved robustness
- For electrical and mechanical connections



• Insulated terminals IP20



• Built-in or optional auxiliary function: state indication, centralized control, latched control, control for illuminated pushbutton, step-by-step control, time delay



• Disconnection of remote control by selector switch (except for 4P single-piece BIR) for maintenance operation

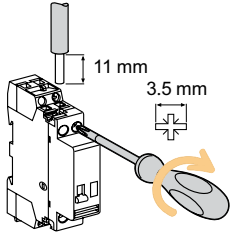
• Manual controls on front face: direct and priority manual control by O-I toggle
 • Mechanical contact position indicator



		Choice impulse relays auxiliaries				
Type		Standard BIR				
Rating	A	16				
Control voltage	V AC	230/240	130	48	24	12
	V DC	110	48	24	12	6

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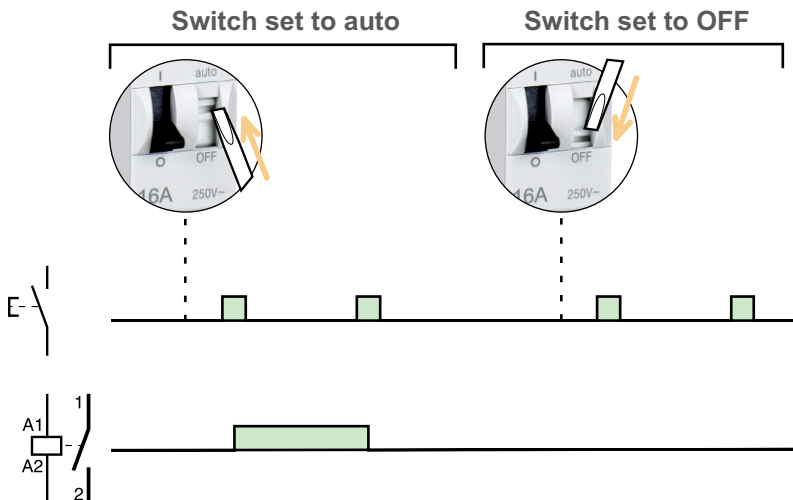
Impulse relay

Connection

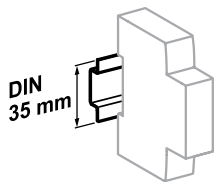


Type	Rating	Circuit	Tightening torque	Copper cables	
				Rigid or ferrule	Flexible or ferrule
BIR	16 A	Control	1 N.m		
		Power		0.5 to 4 mm ²	1 to 4 mm ²
				1.5 to 4 mm ²	1.5 to 4 mm ²

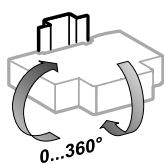
Operation



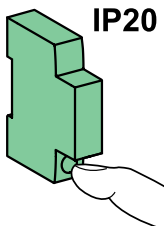
Technical data



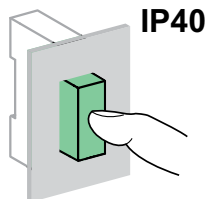
Clip on DIN rail 35 mm



Indifferent position of installation.



IP20



IP40

Control circuit

Dissipated power (during the impulse)	1, 2P: 19 VA
Illuminated PB control	Max. current 3 mA (if > use an ATLz)
Operating threshold	Min. 85 % of Un in conformance with IEC/EN60669-2-2
Duration of the control order	50 ms to 1 s (200 ms recommended)
Response time	50 ms

Power circuit

Voltage rating (Ue)	1P, 2P	24 ...250 V AC
Frequency		50 Hz or 60 Hz
Maximum number of operations per minute		5
Maximum number of switching operation a day		100

Additional characteristics to IEC/EN 60947-3

Insulation voltage (Ui)	440 V AC
Pollution degree	3
Rated impulse withstand voltage (Uimp)	6 kV

Endurance (O-C)



Electrical to IEC/EN 60947-3	200,000 cycles (AC21)
	100,000 cycles (AC22)
Overvoltage category	IV

Other characteristics

Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Operating temperature		Insulation class II
Storage temperature		-20°C to +50°C
Tropicalization (IEC 60068-1)		-40°C to +70°C
		Treatment 2 (relative humidity 95 % at 55°C)

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Impulse relay

Accessories	Yellow clips	Spacer
		
Function	<ul style="list-style-type: none"> • Ensure the mechanical and/or electrical link between impulse relays and their auxiliaries 	<ul style="list-style-type: none"> • Required to reduce temperature rise of modular devices installed side by side. • Recommended to separate electronic devices (thermostat, programmable clock, etc.) from electromechanical devices (relays, contactors).
Specifications	-	1

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Dimensions (mm)

