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

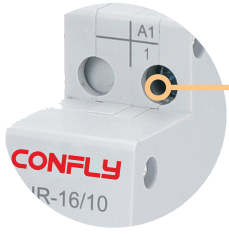
BIR

- 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

Yellow clip

- A simple clip-on system for fexible 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

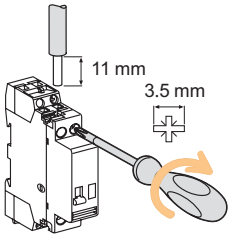
- Disconnection of remote control by selector switch (except for 4P single-piece BIR) for maintenance operation

- 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
Contact		1NO, 2NO, 1NO+1NC				

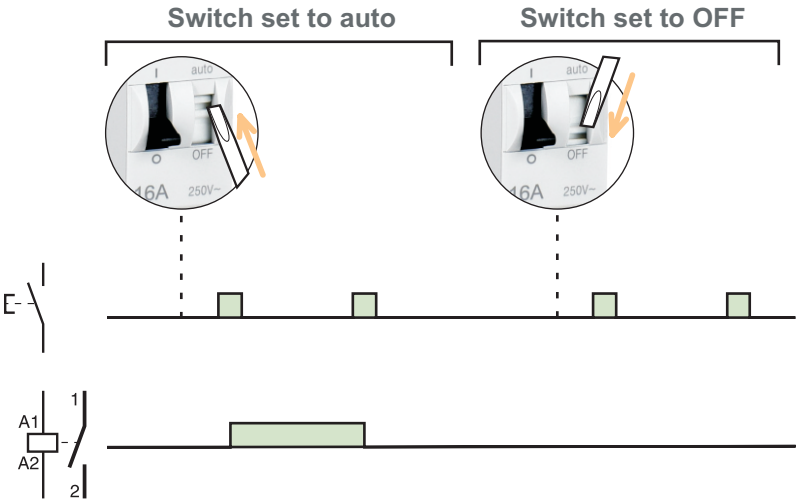
BIR
Impulse relay

Connection

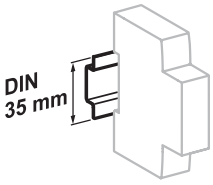


Type	Rating	Circuit	Tightening torque	Copper cables	
				Rigid or ferrule	Flexible or ferrule
					
BIR	16 A	Control	1 N.m	0.5 to 4 mm²	1 to 4 mm²
		Power		1.5 to 4 mm²	1.5 to 4 mm²

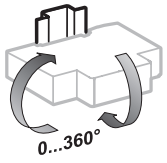
Operation



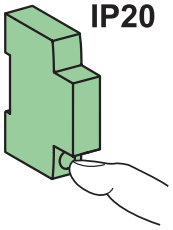
Technical data

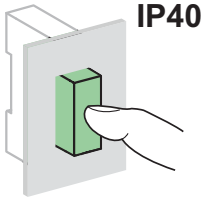


Clip on DIN rail 35 mm



Indifferent position of installation.





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 Insulation class II
Operating temperature		-20°C to +50°C
Storage temperature		-40°C to +70°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % at 55°C)

BIR
Impulse relay

Accessories	Yellow clips	Spacer
		
Function		
	• Ensure the mechanical and/or electrical link between impulse relays and their auxiliaries	• 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).
Specifcations		
Width in 9 mm modules	–	1

F

Dimensions (mm)