ELMARK®

The Brand of Electricity

IMPULSE RELAYS (REMOTE-CONTROL SWITCHES)- 2P & 4P

Functions:

Impulse relays, also known as bi-stable relays, Impulse relays are a form of latching relay that transfers the contacts with each pulse. ELMARK impulse relays are made up of a magnetic latch relay and a solid-state steering circuit that, upon application of power, determines which position the relay is in and energizes the opposite coil.

TECHNICAL SPECIFICATION

AUTOMATION

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Technical data:

- Rating: 16A
- Frequency: 50 or 60Hz
- Insulation voltage (Ui): 440V AC
- Pollution degree: 3
- Rated impulse withstands voltage (Uimp): 6kV
- Dissipated power (during the impulse): 19VA
- Illuminated PB control: Max. current 3mA (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 1s (200ms recommended)
- Over voltage category: IV
- Ingress protection: IP20
- Electrical life: 200,000 cycles (AC21); 100 000 cycles (AC22)
- Max. cable size: solid wire 0.5-4 mm2 and flexible wire 1-4 mm2
- Tightening torque: 1 N.m
- Size: 86x18x67 mm

Application:

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)
• 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.

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Variants:

Catalogue number	Type	Number of poles	Contact type	Voltage	Dimensions (mm)			Packing/ Box (pcs)
					W	H	D	
50301	ELR-1620	2P/ 1 mod	2NO	230VAC/110VDC	18	86	67	1/180
50302	ELR-1610	2P/ 1 mod	1NO+1NC	230VAC/110VDC	18	86	67	1/180
50303	ELR-1621	2P/ 1 mod	2NO	24VDC/48VAC	18	86	67	1/180
50304	ELR-1611	2P/ 1 mod	1NO+1NC	24VDC/48VAC	18	86	67	1/180
50305	ELR-1622	2P/ 1 mod	2NO	12VDC/24VAC	18	86	67	1/180
50306	ELR-1612	2P/ 1 mod	1NO+1NC	12VDC/24VAC	18	86	67	1/180
50307	ELR-1640	4P/ 2 mod	4NO	230VAC/110VDC	36	86	67	1/90
50308	ELR-1630	4P/ 2 mod	2NO+2NC	230VAC/110VDC	36	86	67	1/90
50309	ELR-1641	4P/ 2 mod	4NO	24VDC/48VAC	36	86	67	1/90
50310	ELR-1631	4P/ 2 mod	2NO+2NC	24VDC/48VAC	36	86	67	1/90
50311	ELR-1642	4P/ 2 mod	4NO	12VDC/24VAC	36	86	67	1/90
50312	ELR-1632	4P/ 2 mod	2NO+2NC	12VDC/24VAC	36	86	67	1/90