



symbolic image

DATA SHEET
impulse switch (remote switches)
RS 024-110
to remotely switch consumers up to 16 A
Article number 09981039



[Internetlink](#)

Function

Impulse relays, also known as remote switches, are switching relays that switch on due to an electrical impulse at the control inputs and switch off due to another impulse. They are also known as "electrical non-holding contacts". The impulse relays (remote switches) in series RS are suitable for switching electrical consumers up to 16 A in intermittent operation. This design of impulse relays is suitable for mounting in in-wall sockets/boxes but also in cable ducts or recessed spaces. This design of impulse relay has local command inputs for switching consumers on and off.

Features

high flexibility thanks to different contact configurations, contour and terminal-compatibility with installation relay program, Option of visual display of operating status via LED, low switching noise and no humming or buzzing, Duty cycle: 100 % with spacer 0,5 mod. widths, switch position indicator on the front, Glow lamps parallel to control keys possible, easy connection thanks to generously dimensioned, captive terminals, connection wires cannot become lodged behind the terminals, easy accessibility for connecting coil supply, protected against direct contact under BGV A3, Quick-snap fastening for the 35 mm mounting rail, Local and central control, two-level groups can be switched (RSZ only)

Mounting

quick fastening to mounting rail, any installation position

Applications

The components offer universal use for control tasks in industrial and building systems as well as in domestic installations. They are especially suitable for switching lighting systems, electric heaters, fans, air conditioning systems, ventilators, heat pumps and glow and gas-discharge lamps.

Notes

The designation for the devices in the RS series includes the rated voltage (first group of digits) and the contact design (final group of digits), which is listed in the following order: normally opened contact, normally closed contact and changeover contact. A "RS024-110" therefore has a rated voltage of 24 V, one normally opened contact and one normally closed contact, but no changeover contact, The duty cycle is limited to max. 1 h. To reach 100 % duty cycle, the RD 05 spacer must be used on both sides, Glow lamps switched in parallel from luminaire switches generate reactive currents that, if excessive, can be offset by a capacitor block to prevent coil overheating.

Accessories

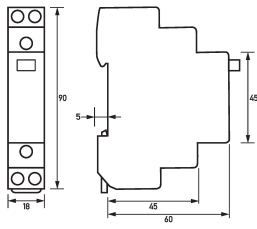
spacers RD, capacitor blocks RS

Technical Data

Technical Data	RS 024-110
Series	RS 024
Number of (n.o, n.c.,change-over)	1 1 0
Operating voltage (AC)	24 V
Operating frequency	50 Hz
	control input
Rated voltage (AC)	24 V
rated impulse withstand voltage	2 kV
Rated power	7 VA (max. 12 VA)
Rated frequency	50 Hz

Technical Data	RS 024-110
max. Maximum number of push buttons with compensation	22
max. number of light switches without compensation	8
	load circuit
Specification	relays
min. Contact opening	5 mm
Bounce time load circuit	typ. < 5 ms (max. 10 ms)
contact assignment	1 NC/1 NO
Rated voltage (AC)	250 V (min. 24 V)
Rated voltage (DC)	min. 24 V
Rated current (AC)	16 A
Rated insulation voltage	500 V
Rated impulse withstand voltage	4 kV
Rated frequency	50 Hz
Current heat loss per current path	1.5 W
max. Rated current thermal	16 A
max. rated power glow lamps	1980 VA
max. Rated power low-voltage halogen lamp	900 VA
max. Rated power fluorescent lamp compensated	1105 VA
max. Rated power fluorescent lamp not compensated	1020 VA
max. rated power fluorescent lamps duo-switching	1700 VA
	lift terminal, captive top and bottom (control input, load circuit)
Cross section solid	1-wire: 0.5 mm ² ... 10 mm ²
Cross section flexible with ferrule	0.5 mm ² ... 6 mm ²
Cross section stranded	1-wire: 0.5 mm ² ... 10 mm ²
	General data
Duty cycle	short-time operation (Duty cycle ≤ 1 h, 100 % with spacer 0,5 mod. widths)
Operating position	optional
Mechanical endurance	min. 1 · 10 ⁶ switching cycles
Electrical endurance	min. 40000 switching cycles
Ambient temperature	-20 °C ... 45 °C
Housing type	distribution board housing
Mounting type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20 (installed: IP40)
Width	18 mm
Height	90 mm
Depth	65 mm
Installation depth	60 mm
Width (modules)	1
Design requirements/Standards	EN 60715, EN 60669-1

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram