



DATA SHEET
impulse switch (remote switches)
SIR 16 L
 for operating voltage 24 V DC
 Article number 09500153



[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 devices in series SIR were originally developed for use in the SI system. However, they can be used universally thanks to their 24 V impulse technology. This impulse relay design is suitable for mounting in electrical distribution boards. The bistable load relay SIR 16 L relay is a component of the SI system and can also be used as an installation relay for system-independent control functions. Due to its many inputs, it can be integrated in central-ON and central-OFF commands or operated as a monostable relay. The SIR 16 L is especially suitable even for high inductive loads thanks to the special design of the switching relay.

Features

low control power, powerful switching contact, compact design (1 module width unit), switch status indicator by LED

Mounting

quick fastening to mounting rail

Applications

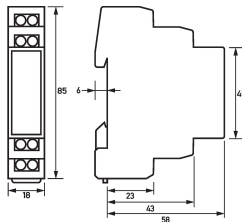
The relay is suitable in general for switching tasks on the 230 V mains, e.g. for controlling luminaires, motors, etc.

Technical Data

Technical Data	SIR 16 L
Series	SIR 16 L
Number of (n.o, n.c.,change-over)	1 0 0
Manual operating mode possible	true
	Supply voltage (external adaptor)
Operating voltage (DC)	24 V (21.6 V ... 26.4 V)
	Display operation
Type	LED
	control input
Rated voltage (DC)	24 V
Tolerance of rated voltage	-10 % ... 10 %
Rated current	max. 4 mA
Bounce time of push buttons	10 ms
Load factor	1 ELF
	load circuit
Specification	relays
Number	1
contact assignment	1 NO
Rated voltage (AC)	230 V
Rated current (AC)	16 A
Load factor	50 ALF
max. Switchung capacity cos j = 0,5	3200 VA

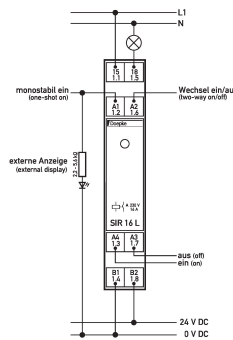
Technical Data	SIR 16 L
max. Switchung capacity $\cos \phi = 1,0$	4000 VA
max. rated power fluorescent lamps duo-switching	4000 VA
	screw-type terminal (load circuit)
Clamping area	0.4 mm ² ... 2.5 mm ²
Cross section solid	1-wire: max. 2.5 mm ²
Cross section stranded	1-wire: max. 1.5 mm ²
Tightening torque	max. 0.6 Nm
	General data
Duty cycle	continuous operation
Operating position	optional
Mechanical endurance	min. 300 · 10 ⁶ switching cycles
Electrical endurance	min. 400000 switching cycles
Ambient temperature	-10 °C ... 45 °C
Permissible humidity	max. 85 %
Housing type	distribution board housing
Mounting type	Mounting rail (35 mm)
Housing material	polycarbonate (PC)
Protection class	IP40
Width	18 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Width (modules)	1

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram