



EAN code:
RFSAI-161B: 8595188149341

Technical parameters RFSAI-161B/230V RFSAI-161B/120V

Supply voltage:	230 V AC	120 V AC
Supply voltage frequency:	50–60 Hz	60 Hz
Apparent power:	9 VA	9 VA
Dissipated power:	0.7 W	
Supply voltage tolerance:	+10 %; -15 %	

Output

Number of contacts:	1x switching (AgSnO ₂)
Rated current:	12 A/AC1
Switching power:	3000 VA/AC1, 288 W/DC
Peak current:	30 A, max. 4 s at 10%
Switching voltage:	250 V AC1/24 V DC
Min. switching power DC:	100 mA/10 V
Insulation voltage between outputs and internal circuits:	basic insulation (Cat. III surges by EN 60664-1)

Isolation voltage open contact:	1 kV
Mechanical service life:	3x10 ⁷
Electrical service life (AC1):	5x10 ⁴
Indication of relay switch:	red LED

Control

Communication protocol:	RFIO2
Frequency:	866–922 MHz (for more information see p.72)
Repeater button:	yes
Manual control:	button PROG (ON/OFF)
External button:	cable length max. 12 m \triangle *
Range:	in open space up to 160 m

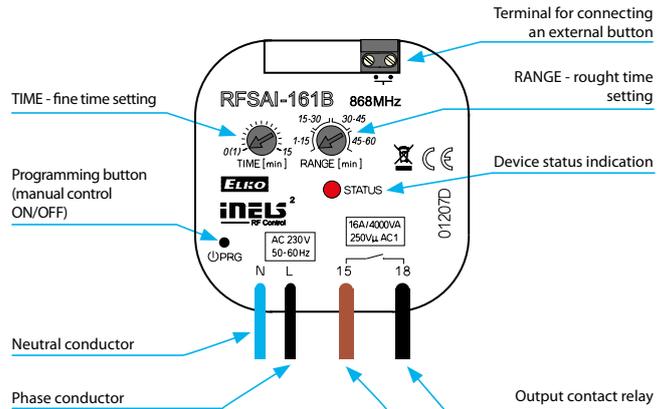
Other data

Open contact voltage external switch:	3 V
Resistor for the management of external switch:	<1 kΩ
Resist. of connection for open contact:	>10 kΩ
Galvanic isolation of input:	no
Operating temperature:	-15 to +50 °C
Storage temperature:	-30 to +70 °C
Working position:	any
Mounting:	free at lead-in wires
Protection:	IP30
Overvoltage category:	III.
Contamination degree:	2
Terminals:	0,5–1 mm ²
Terminals (CY wire, Cross-section):	2x 0.75 mm ² , 2x 2.5 mm ²
Terminal length:	90 mm
Dimensions:	49 x 49 x 21 mm
Weight:	50 g

* We recommend using a twisted pair cable for this distance. Control button input is at the supply voltage potential.

- Switch component with one output channel which is used in combination with detectors for automatic lighting control.
- RFSAI-161B has a pre-set control algorithm (scene) adapted to the requirements of hotel room control, see wiring.
- Each RFSAI-161B can be programmed with 1x RFMD-100, 1x RFWD-100 and 1x wireless controller (RFWB-40/G or RF KEY).
- The terminals on the component give you the opportunity to connect a wired detector or an existing key installation.
- It enables connection of the switched load up to 1x 12 A (3000 VA).
- The programming button on the unit is also used for manual control of the output.
- Range up to 160 m (in open space), if the signal is insufficient between the controller and unit, use the signal repeater RFRP-20N or protocol component RFIO2 that support this feature.

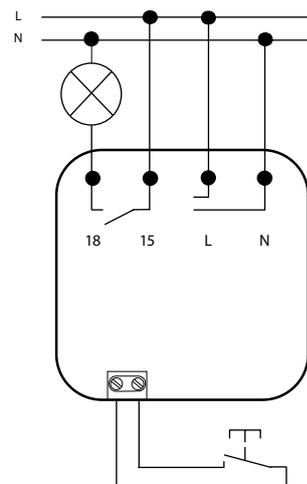
Device description



Compatible wireless detectors:
Movement: RFMD-100
Door/Window: RFWD-100

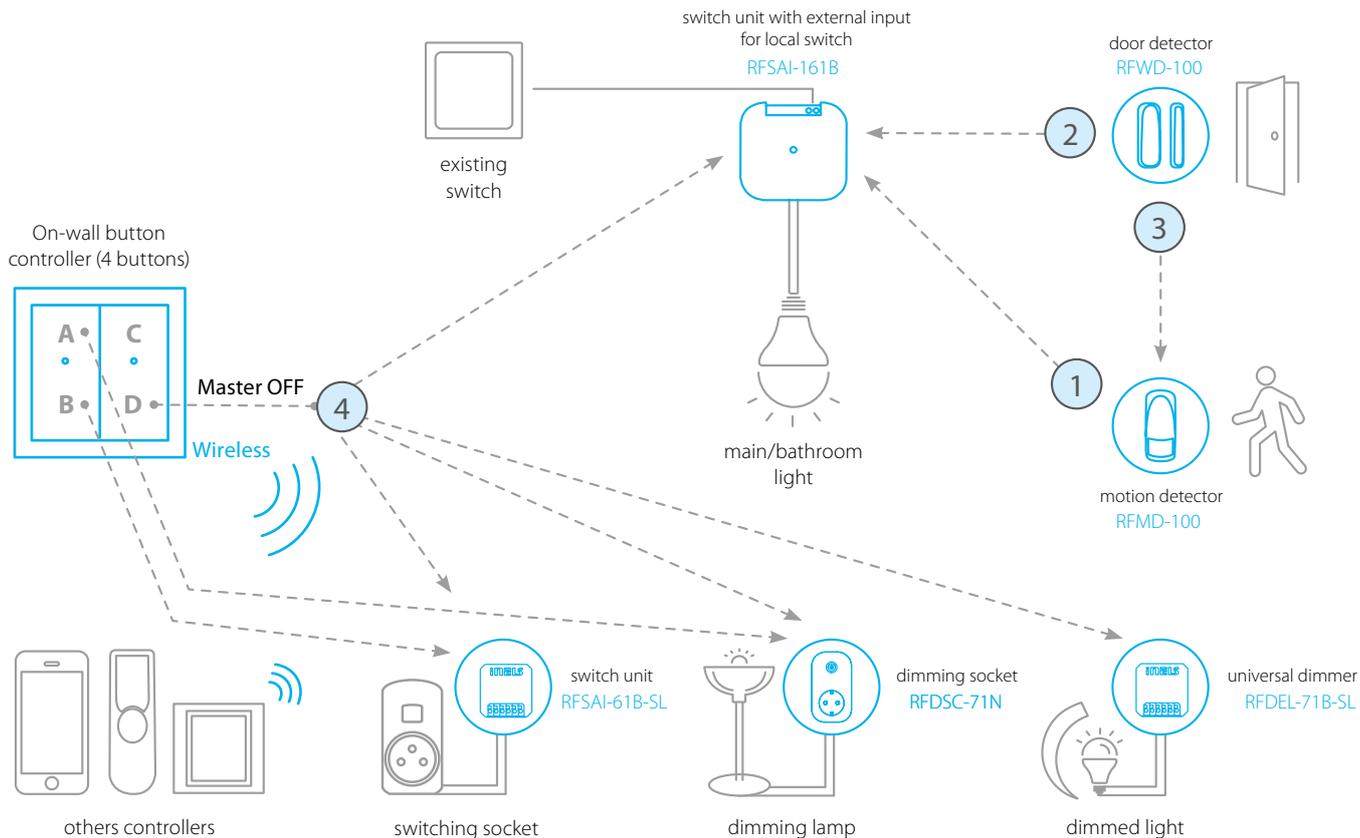
Connection

RFSAI-161B/230V
RFSAI-161B/120V



* We recommend using a twisted pair cable for this distance. Control button input is at the supply voltage potential.

Example



Function

- 1 When RFMD-100 motion detector captures the movement of the guest, the light ON command is sent.
- 2 The functionality of RFWD-100 door detector is delayed OFF= after the guest (or cleaner) close the door than the timer starts running (which you can set) and the light will turn OFF.
- 3 If there is movement the command from RFWD-100 door detector (delay off) will be cancelled by the motion detector RFMD-100 command.
- 4 Pressing the button at position D of RFWB-40 On-wall button controller sends an OFF command to all components that are controlled from that button while blocking the response to RFMD-100 motion detector.
- 5 You are able to control other units with other channels (A, B, C) on RFWB-40 On-wall button controller.
- 6 When guest wakes up and presses any RFWB-40 button, then pressing on button makes all units working again after previous pressing button on position D and it also re-enable RFMD-100 motion detector primary function.