120 V AC

60 Hz

Supply voltage:

Supply voltage frequency:

Electrical service life (AC1):



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

230 V AC

50-60 Hz

Apparent power:	9 VA	9 VA
Dissipated power:	0.7 W	
Supply voltage tolerance:	+10 %; -15 %	
Output		
Number of contacts:	1x switching (AgSnO <sub>2</sub> )	
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 <sup>7</sup>	

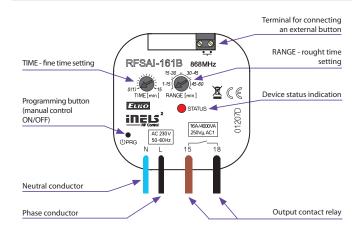
5x10<sup>4</sup>

Licetifed Service ine (7161)	57.10	
Indication of relay switch:	red LED	
Control		
Communication protocol:	RFIO2	
Frequency:	866–922 MHz (for more information see p. 76)	
Repeater button:	yes	
Manual control:	button PROG (ON/OFF)	
External button:	cable length max. 12 m 🗘 *	
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 mm²	
Terminals (CY wire, Cross-section):	2x 0.75 mm <sup>2</sup> , 2x 2.5 mm <sup>2</sup>	
Terminal length:	90 mm	
Dimensions:	49 x 49 x 21 mm	
Weight:	50 a	

<sup>\*</sup> We recommend using a twisted pair cable for this distance.  $_{\nwarrow}$  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-20 or protocol component RFIO2 that support this feature.
- · Communication frequency with bidirectional protocol RFIO2.

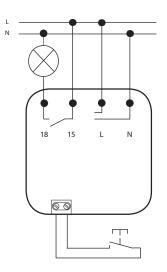
## **Device description**

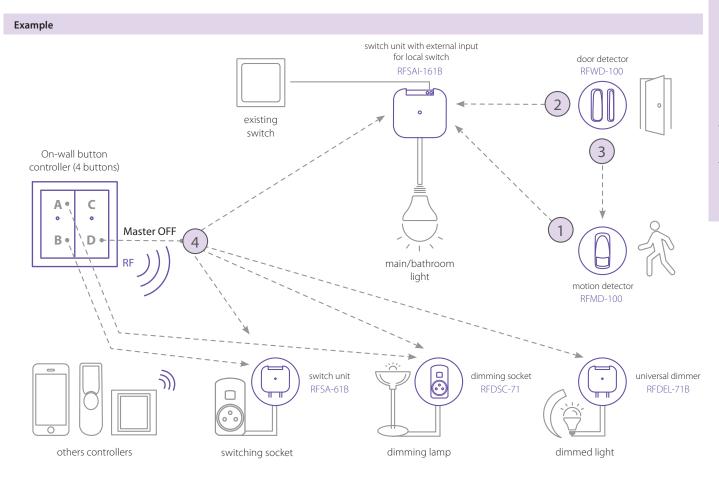


Compatible wireless detectors: Movement: RFMD-100 Door/Window: RFWD-100

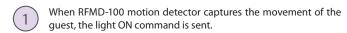
## Connection

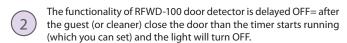
RFSAI-161B/230V RFSAI-161B/120V





## Function







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.

You are able to control other units with other channels (A, B, C) on RFWB-40 On-wall button controller.

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.