

Shelly Pro 3EM Switch Add-on



Device identification

- Device name: **Shelly Pro 3EM Switch Add-on**

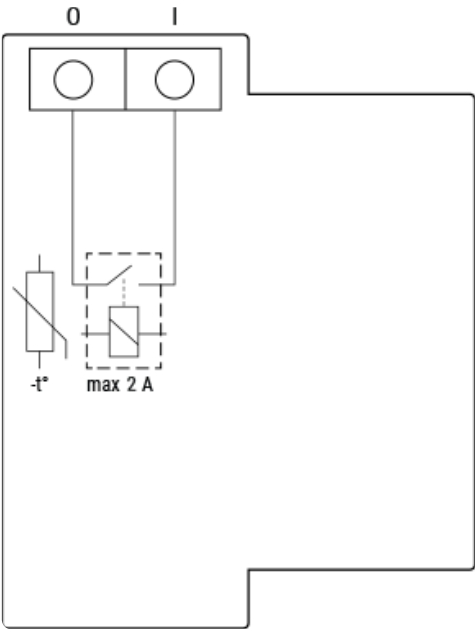
Short description

Shelly Pro 3EM Switch Add-on (the Device) is a galvanically isolated switch that extends the features of the Shelly Pro 3EM series of devices allowing the control of contactors or other electrical appliances.

Main applications

- Residential
- MDU (Multi Dwelling Units - apartments, condominiums, hotels, etc.)
- Light commercial (small office buildings, small retail/restaurant/gas station, etc.)
- Agricultural (farms, barns, silos, etc.)
- Government/municipal
- University/college

Simplified internal schematics



Device electrical interfaces

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Necessary only

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Inputs1 load circuit input IOutputs1 load circuit output O Add-on interfaceShelly proprietary serial interface⚠CAUTION! High voltage on the add-on interface when the Device is powered!

Safety features

- Internal temperature sensing and reporting

Supported load types

- Resistive (incandescent bulbs, small heating devices)
- Capacitive (LED light drivers, capacitor banks, electronic equipment)
- Inductive (contactors, transformers, fans, refrigerators)

User interface

Outputs

- LED indication
 - Power: Red light if the power supply is connected.
 - Out: Red light if the output relay contact is closed.

Specifications

Type	Value
Physical	
Size (HxWxD):	94x19x69 ±0.5 mm / 3.70x0.75x2.71 ±0.02 in
Weight:	20 ±1 g / 0.70 ±0.05 oz
Mounting:	DIN rail, attached to a Shelly Pro 3EM
Screw terminals max torque:	0.4 Nm / 4.43 lbin
Conductor cross section:	0.5 to 2.5 mm² / 20 to 14 AWG (solid, stranded and bootlace lugs)
Conductor stripped length:	6 to 7 mm / 0.24 to 0.28 in
Shell material:	Plastic
Color:	White
Environmental	
Ambient temperature:	-20 °C to 40 °C / -5 °F to 105 °F
Humidity:	30 % to 70 % RH
Max. altitude:	2000 m / 6562 ft
Electrical	
Power supply voltage AC:	N/A
Power supply voltage DC:	3.3 V and 12 V (from Shelly Pro 3EM device)
Power consumption:	< 1 W
Sensors, meters	
Internal-temperature sensor:	Yes
Output circuits ratings	
Max switching voltage AC:	240 V



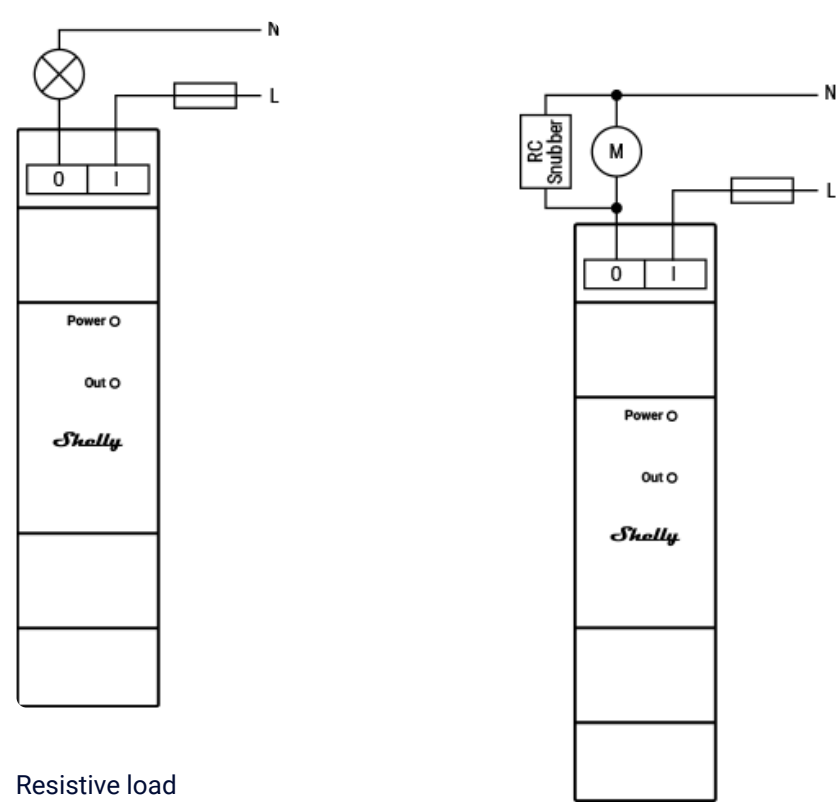
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Max switching voltage DC:	30 V
Max switching current AC:	2 A
Max switching current DC:	2 A

Basic wiring diagrams



Resistive load

Inductive load and RC snubber

Legend



Terminals		Wires	
O	Load circuit output terminal	L	Live (110-240 V) wire
I	Load circuit input terminal	N	Neutral wire

Components and APIs

- [This device](#)
- [All Shelly devices and services](#)

Compliance

- [Shelly Pro 3EM Switch Add-on multilingual EU declaration of conformity.pdf](#)
- [Shelly Pro 3EM Switch Add-on AU NZ Certificate for Suitability.pdf](#)
- [Shelly Pro 3EM Switch Add-on UK PSTI ACT Statement of compliance.pdf](#)

Printed user guide

- [Shelly Pro 3EM Switch Add-on multilingual printed user and safety guide.pdf](#)
- [Ръководство за употреба и безопасност](#)

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