

[Skip to main content](#)

[Show navigation](#)



[Knowledge Base /](#)

[Devices /](#)

[Shelly Pro devices](#)

[Skip table of contents](#)

Shelly Pro 3EM Switch Add-on



Device identification

Device name: Shelly Pro 3EMSwitch Add-on

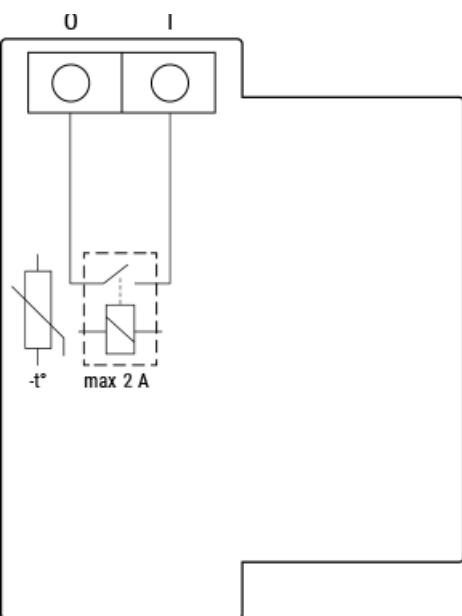
Short description

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.)
- Industrial (factories, power plants, water processing, refineries, etc.)
- Agricultural (farms, barns, silos, etc.)
- Government/municipal
- University/college

Simplified internal schematics



Device electrical interfaces

Inputs

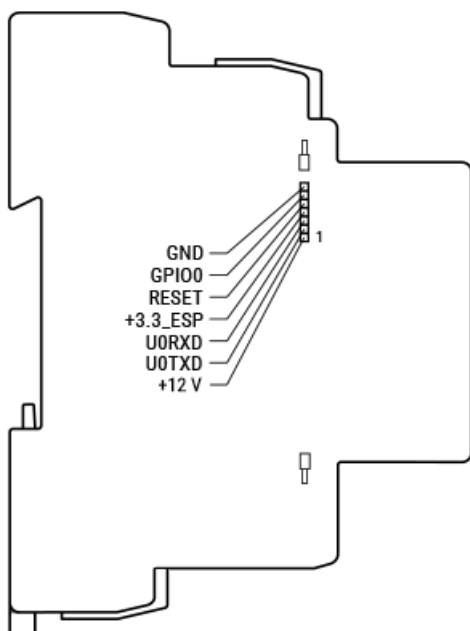
1 load circuit input **I**

Outputs

1 load circuit output **O**

Add-on interface

Shelly 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

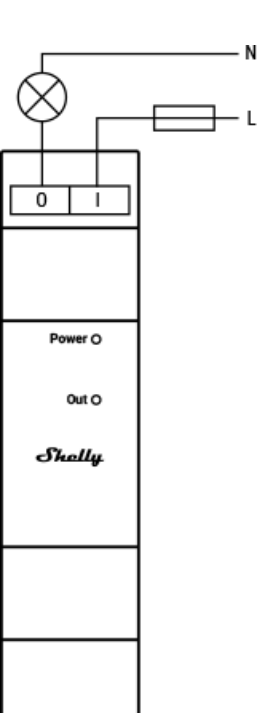
LED indication

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

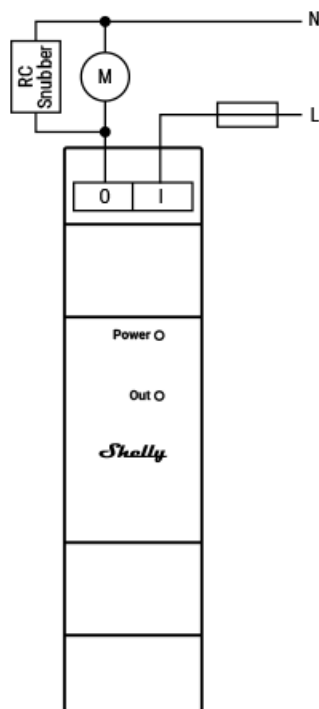
Specifications

	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 mm ² / 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
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](#)

Printed user guide

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



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