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J.A. Russell Ltd
ELECTRICAL & DATA SUPPLIERS

Radcliffe
ELECTRICAL

Shelly

Explore the
POSSIBILITIES

PRODUCT CATALOGUE

SMART HOME & FACILITY AUTOMATION

Make your home and facility smart

Shelly is a line of home automation devices that allows customers to control their home directly through a mobile phone or with a preferred home assistant. Shelly's devices are retrofit, which makes them suitable for every electrical installation with no need of additional changes or improvements.

With Shelly you can:

- Control the lights by adjusting brightness, colors, and set custom schedules.
- Control the home appliances or office equipment from anywhere.
- Save energy and money with precise power metering.
- Set custom automation features.
- Monitor temperature, humidity, and brightness.
- Receive immediate notifications in case of any status changes.
- Power consumption control

All Shelly devices are designed to offer maximum comfort of living, safety and easy installation.



Global structure

 **Munich, Germany**
Sales & Marketing DACH

 **Boca Raton, USA**
Sales & Marketing North
& South America

 **Sofia, Bulgaria**
R&D, Sales,
Marketing, Admin,
Warehouse

 **Shenzhen, China**
Sales and Marketing Asia,
Supply Chain and factory
supervision

 **Shenzhen, China**
Production of 80% of
Shelly products

 **Nova Gorica
Slovenia**
R&D, Marketing
Shelly WAVE

 **Vietnam**
Production
of Shelly Chip





Shelly Smart Control



Easy device inclusion

Custom dashboards

Smart schedules & scenes

Compatible with Alexa

Energy monitoring

Electricity bills control

 Premium


AI Models


Offline Device Notifications


Virtual Devices

Integrations

Voice Assistants



Home Automation Platforms



Home Assistant



Homey



openHAB



Domoticz



ioBroker



Node-RED



Symcon



Nymea



Hubitat



HomeSeer

Protocols & APIs



MQTT



REST API



CoAP



mDNS



HTTP/HTTPS



Matter

Supported for Gen3 & Gen4 devices



Zigbee

Supported from Gen4 devices

KNX net/IP Integration



Tasmota



ESPHome



Control4



Crestron



URC

Typically Used For...



Lights



Heating & Cooling



Appliances



Doorbell



Irrigation



Garage Door



Pool automation



Power monitoring



Floor heating



Water manifolds



Cover & Blinds



Load shedding



Valves



Energy monitoring



Energy saving



Photovoltaic



Electric chargers



No neutral installation



Dimming



LED strips



Color



Scene activation



Room management



Centralized control



Thermostat



Motion detection



Leak & Gas detection



Region standards

GLOBAL

Majority of markets

UK

United Kingdom

EU

European Union

ANZ

Australia + New Zealand

US

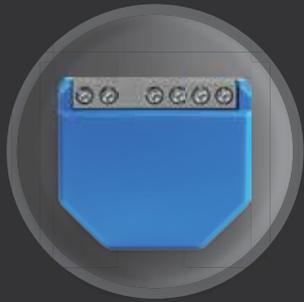
United States

IT

Italy



Switch & Socket Box Types



60 mm

Depth 45-70 mm

EU Standard Wall Box

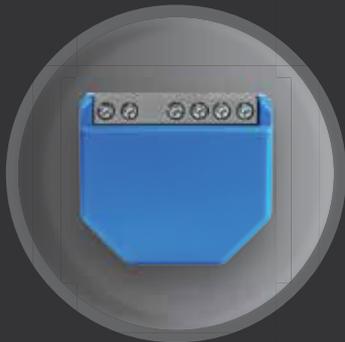


51 mm / 2"

76 mm / 3"

Depth 64-89 mm 2.5"-3.5"

US + Canada Gang Box



67 mm

Depth 35-40 mm

Danish Wall Box



115 mm

75 mm

Depth 50 mm

Italian Box



86 mm

86 mm

Depth: 25 mm (shallow) or 35 mm (standard)

UK Back Box



118 mm

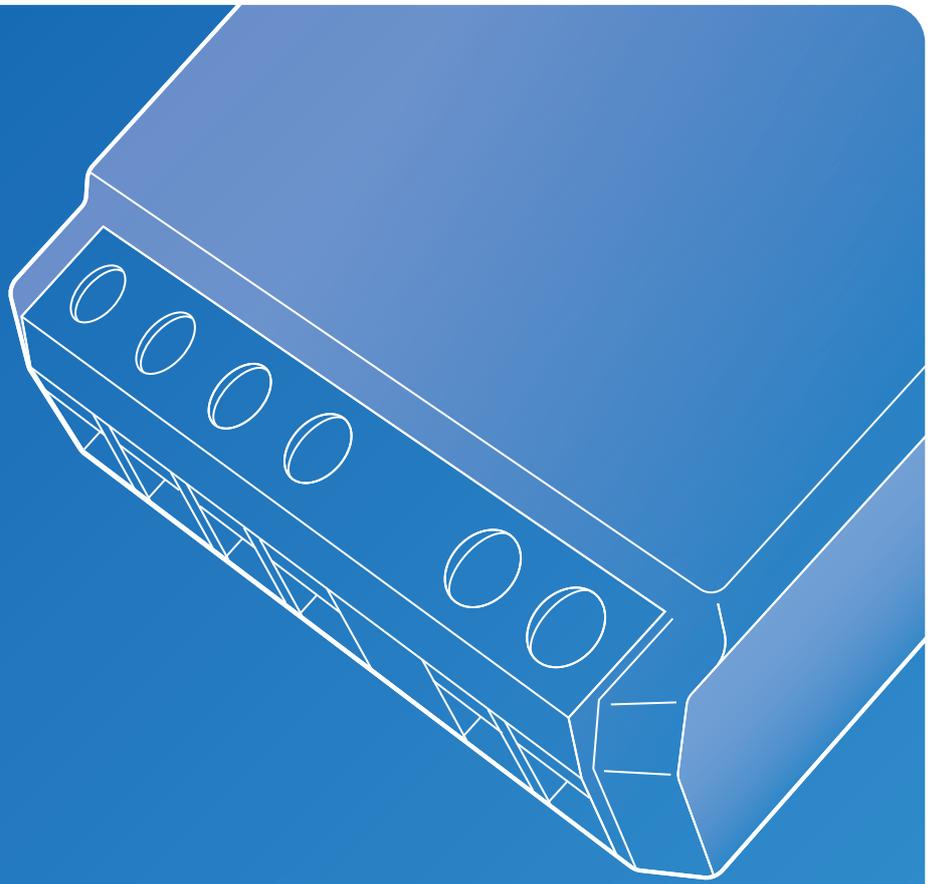
74 mm

Depth ~50 mm

Australian / New Zealand Wall Box

Pro devices on DIN rail





1 channel relays with dry contact

TYPICALLY USED FOR



Lights



Heating & Cooling



Appliances



Doorbell



Irrigation



Garage Door



Pool automation



17792100

17792320

GLOBAL



Shelly
1Gen3



Power supply 110-240 V~ / 24-48 V== / 12 V==

Max load 16 A (240 V~);
10 A (30 V==)

Connectivity Wi-Fi 4
Bluetooth 4.2

CPU ESP-Shelly-C38F

Flash Memory 8 MB

Size (HxWxD) 37x42x16 mm /
1.46x1.65x0.63 inch

Weight 26 g / 0.92 oz

Certifications RED, LVD, EMC, ROHS



GLOBAL



Shelly
1Gen4



Power supply 110-240 V~ / 24-48 V== / 12 V==

Max load 16 A (240 V~);
10 A (30 V==)

Connectivity Wi-Fi 6
Bluetooth 5
Zigbee 802.15.4

CPU ESP-Shelly-C68F

Flash Memory 8 MB

Size (HxWxD) 37x42x16 mm /
1.46x1.65x0.63 inch

Weight 26 g / 0.92 oz

Certifications RED, LVD, EMC, ROHS





17792140

GLOBAL



Shelly 1 Mini Gen3



Power supply 110-240 V~

Max load 8 A (240 V~); 5 A (30 V~)

Connectivity **Wi-Fi 4**
Bluetooth 4.2

CPU ESP-Shelly-C38F

Flash Memory 8 MB

Size (HxWxD) 29x34x16 mm /
1.34x1.11x0.63 inch

Weight 19 g / 0.65 oz

Certifications RED, LVD, EMC, ROHS



1 CHANNEL RELAYS WITH DRY CONTACT



17791060

GLOBAL



Shelly
Pro 1



Power supply **110-240 V~**

Max load **16 A / 15 A UL Version**

Connectivity **Wi-Fi 4**
Bluetooth 4.2
LAN

CPU **ESP32-D0WDQ6**

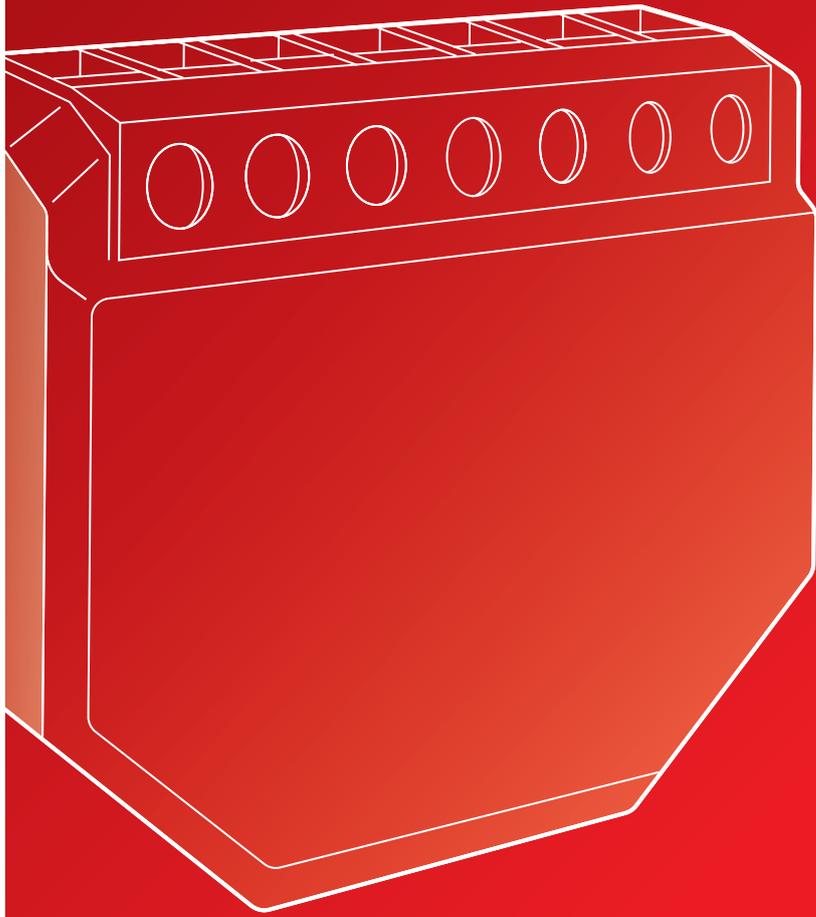
Flash Memory **8 MB**

Size (HxWxD) **94x19x69 mm /**
3.70x0.75x2.71 in

Weight **63 g / 2.22 oz.**

Certifications **RED, LVD, EMC, ROHS,**
UL, RCM





1 channel relays with power metering

TYPICALLY USED FOR



Power monitoring



Lights



Appliances



Floor heating



17792110

17792340

GLOBAL



Shelly
1PM Gen3



Power supply 110-240 V~ / 24-30 V==

Max load 16 A (240 V~);
10 A (30 V==)

Connectivity Wi-Fi 4
Bluetooth 4.2

CPU ESP-Shelly-C38F

Flash Memory 8 MB

Size (HxWxD) 37x42x16 mm /
1.46x1.65x0.63 inch

Weight 26 g / 0.92 oz

Certifications RED, LVD, EMC, ROHS



GLOBAL



Shelly
1PM Gen4



Power supply 110-240 V~ / 24-30 V==

Max load 16 A (240 V~);
10 A (30 V==)

Connectivity Wi-Fi 6
Bluetooth 5
Zigbee 802.15.4

CPU ESP-Shelly-C68F

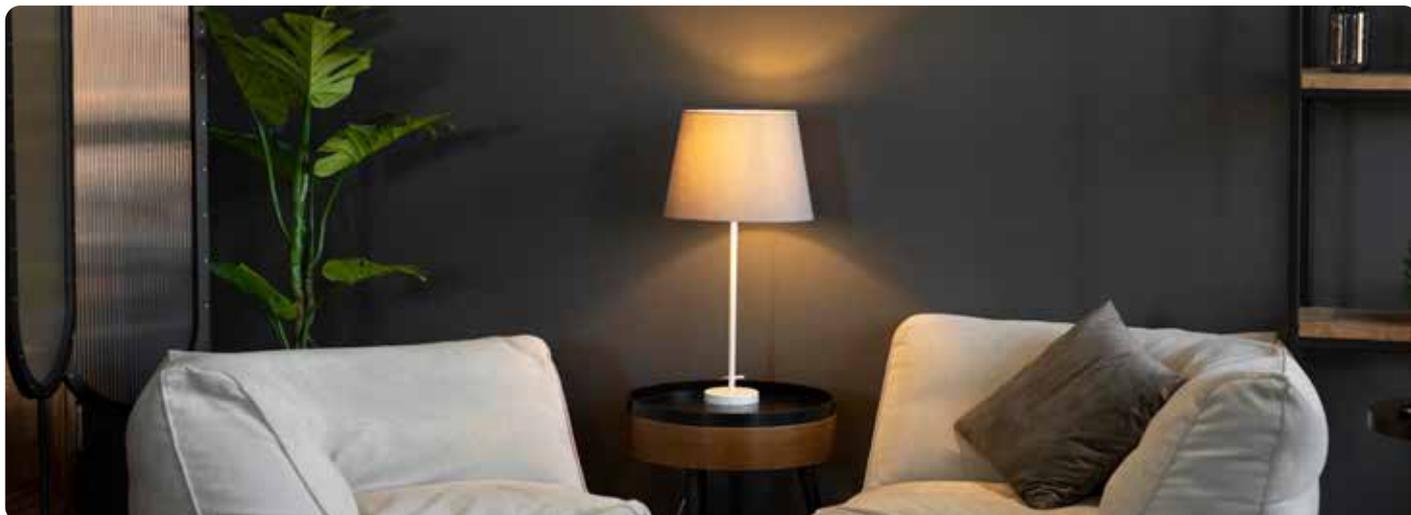
Flash Memory 8 MB

Size (HxWxD) 37x42x16 mm /
1.46x1.65x0.63 inch

Weight 26 g / 0.92 oz

Certifications RED, LVD, EMC, ROHS





17792290

GLOBAL



Shelly 1PM Mini Gen3



Power supply 110-240 V~

Max load 8 A (240 V~)

Connectivity Wi-Fi 4
Bluetooth 4.2

CPU ESP-Shelly-C38F

Flash Memory 8 MB

Size (HxWxD) 29x34x16 mm /
1.34x1.11x0.63 inch

Weight 19 g / 0.65 oz

Certifications RED, LVD, EMC, ROHS





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GLOBAL



Shelly Pro 1PM



Power supply 110-240 V~

Max load 16 A / 15 A UL Version

Connectivity Wi-Fi 4
Bluetooth 4.2
LAN

CPU ESP32-D0WDQ6

Flash Memory 8 MB

Size (HxWxD) 94x19x69 mm /
3.70x0.75x2.71 in

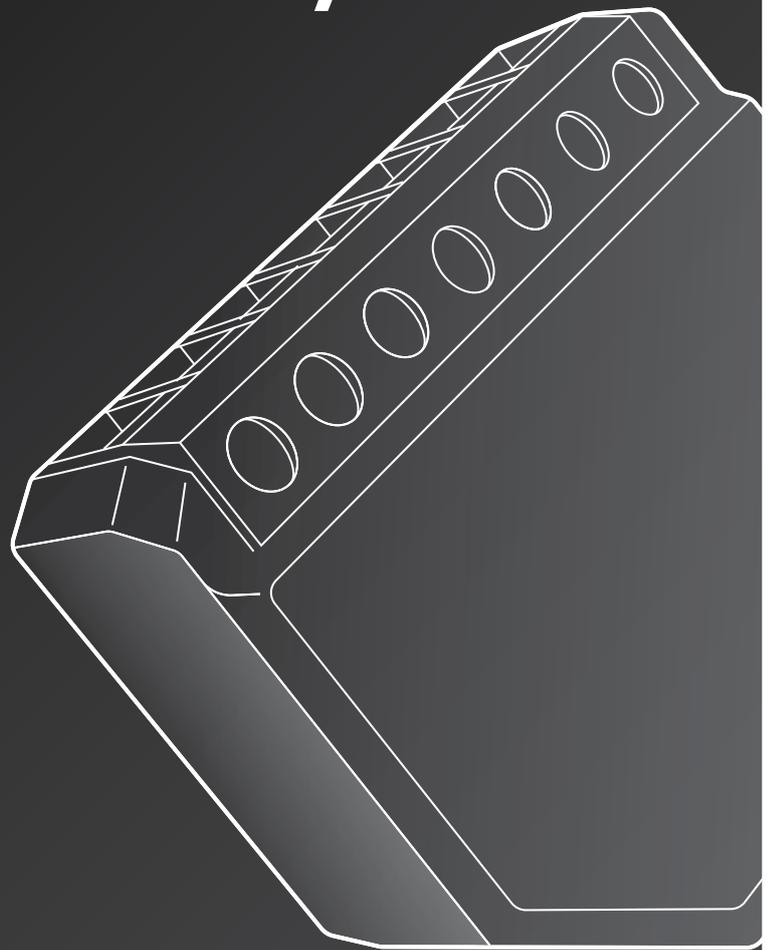
Weight 63 g / 2.22 oz.

Certifications RED, LVD, EMC, ROHS,
UL, RCM





2 channel relays



TYPICALLY USED FOR



Power monitoring



Cover & Blinds



Lights



Appliances



Irrigation



Floor heating



17792120

GLOBAL



Shelly 2PM Gen3



Power supply 110-240 V~ / 24 V==

Max load 16 A (240 V~);
10 A (30 V==)

Power metering **Yes**

Connectivity **Wi-Fi 4**
Bluetooth 4.2

CPU **ESP-Shelly-C38F**

Flash Memory **8 MB**

Size (HxWxD) **37x42x16 mm /**
1.46x1.65x0.63 in

Weight **30 g / 1.06 oz**

Certifications **RED, LVD, EMC, ROHS, RCM**



2-CHANNEL RELAYS WITH POWER METERING



17792200

GLOBAL



Shelly Pro 2PM



Power supply 110-240 V~

Max load 16 A per channel,
25 A total /
12.5 A UL Version

Power metering Yes

Connectivity Wi-Fi 4
Bluetooth 4.2
LAN

CPU ESP32-D0WDQ6

Flash Memory 8 MB

Size (HxWxD) 94x19x69 mm /
3.70x0.75x2.71 in

Weight 76 g / 2.68 oz

Certifications RED, LVD, EMC, ROHS,
UL, RCM



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2 CHANNEL RELAYS



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Shelly
Pro 2



Power supply 110-240 V~

Max load 16 A / 12.5 A ULVersion

Power metering No

Connectivity Wi-Fi 4
Bluetooth 4.2
LAN

CPU ESP32-D0WDQ6

Flash Memory 8 MB

Size (HxWxD) 94x19x69 mm /
3.70x0.75x2.71 in

Weight 76 g / 2.68 oz

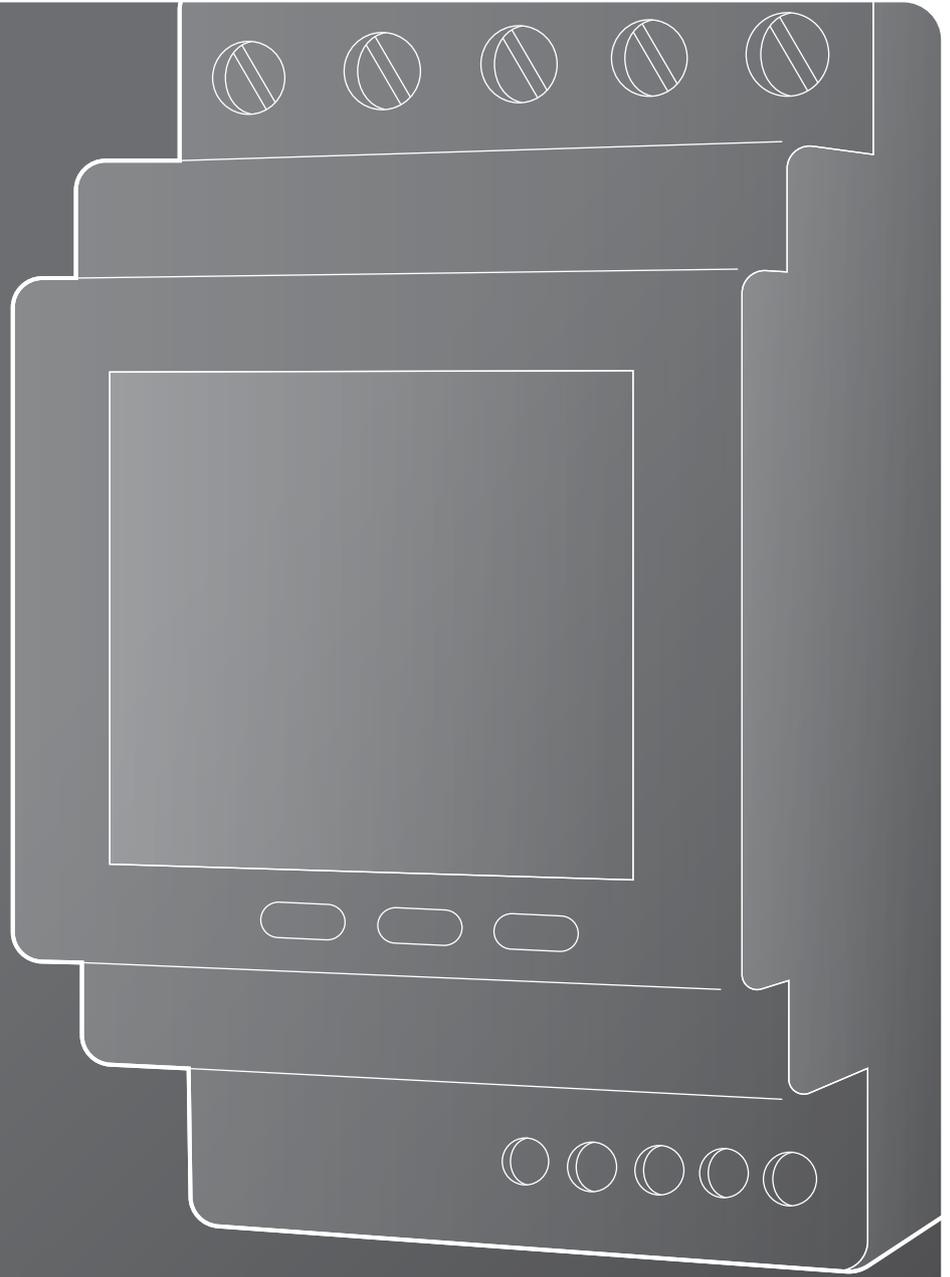
Certifications RED, LVD, EMC, ROHS,
UL, RCM



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3+ channel relays

TYPICALLY USED FOR



Load shedding



Lights



Appliances



Valves



Heating & Cooling

3+ CHANNEL RELAYS



TBC ETA Q4

GLOBAL



Shelly
Pro 3



Power supply 110-240 V~

Max load 16 A per channel, 48 A total

Connectivity Wi-Fi 4
Bluetooth 4.2
LAN

CPU ESP32-D0WDQ6

Flash Memory 8 MB

Size (HxWxD) 96x53x59 mm /
3.78x2.01x2.32 inch

Weight 150 g / 5.29 oz

Certifications RED, LVD, EMC, ROHS, RCM



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ELECTRICAL

3+ CHANNEL RELAYS



17791050

GLOBAL



Shelly Pro 4PM



Power supply 110-240 V~

Max load 16 A per channel, 40 A total

Connectivity Wi-Fi 4
Bluetooth 4.2
LAN

CPU ESP32-D0WDQ6

Flash Memory 8 MB

Size (HxWxD) 96x53x59 mm /
3.78x2.01x2.32 inch

Weight 150 g / 5.29 oz

Certifications RED, LVD, EMC, ROHS, RCM



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ELECTRICAL

TYPICALLY USED FOR



Energy monitoring



Energy saving



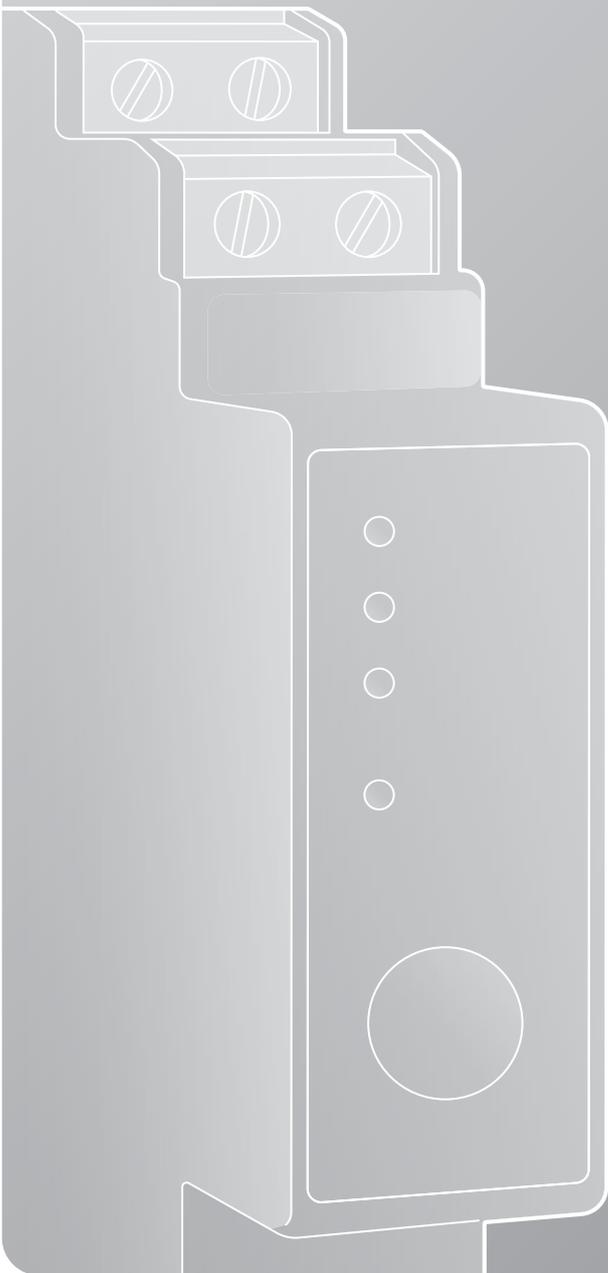
Electric chargers



Photo voltaic



Energy meters





17792280

**Shelly
EM Gen3**Power supply **110-240 V~**Max load **2 A (240 V~)**Internal data storage **Up to 10 days of 1 min data records**Relay Inside **Yes**Connectivity **Wi-Fi 4
Bluetooth 4.2**CPU **ESP-Shelly-C38F**Flash Memory **8 MB**Size (HxWxD) **37x42x16 mm /
1.46x1.65x0.63 inch**Weight **EM Gen3 - 23 g / 0.81 oz**Certifications **RED, LVD, EMC, ROHS**



17792030

GLOBAL

**Shelly
Pro EM-50**

Power supply 100 - 260 V~

Ammeters 0 - 50 A
(RMS via CT)Relay Inside **Yes**Connectivity **Wi-Fi 4**
Bluetooth 4.2
LANCPU **ESP32-D0WDQ6**Flash Memory **16 MB**Size (HxWxD) **94x19x69 mm /**
3.70x0.75x2.71 inWeight **63 g / 2.22 oz**Certifications **RED, LVD, EMC, ROHS,**
RCM

17791085

GLOBAL

**Shelly
Pro 3EM-120**

Power supply 100 - 260 V~

Ammeters 0 - 120 A
(RMS via CT)Relay Inside **No**Connectivity **Wi-Fi 4**
Bluetooth 4.2
LANCPU **ESP32-D0WDQ6**Flash Memory **16 MB**Size (HxWxD) **94x19x69 mm /**
3.70x0.75x2.71 inWeight **62 g / 2.19 oz**Certifications **RED, LVD, EMC, ROHS,**
RCM

17791087

GLOBAL

**Shelly
Pro 3EM-400**

Power supply 100 - 260 V~

Ammeters 0 - 400 A
(RMS via CT)Relay Inside **No**Connectivity **Wi-Fi 4**
Bluetooth 4.2
LANCPU **ESP32-D0WDQ6**Flash Memory **16 MB**Size (HxWxD) **94x19x69 mm /**
3.70x0.75x2.71 inWeight **62 g / 2.19 oz**Certifications **RED, LVD, EMC, ROHS,**
RCM



17792310

GLOBAL



Shelly Pro 3EM Switch Add-on

Power supply **3.3V --- and 12V --- (from Shelly Pro 3EM device)**

Ammeters -

Relay Inside **Yes**

Max switching **240V \sim /30V ---**
voltage

Max switching **2A**
current

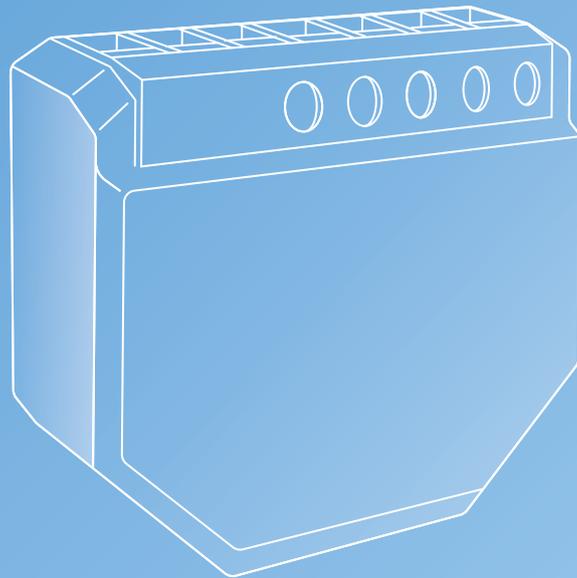
Flash Memory -

Size (HxWxD) **94x19x69 mm /**
3.70x0.75x2.71 in

Weight **20 g / 0.70 oz**

Certifications **LVD, EMC, ROHS, RCM**





Lighting control for no neutral installations

TYPICALLY USED FOR



Lights



No neutral Instalation



17792250

17792260

EU



Shelly
1L Gen3



Power supply 220-240 V~ 50Hz (Shelly Bypass is required)

Max. switching power 200W

Connectivity Wi-Fi 4
Bluetooth 4.2

CPU ESP-Shelly-C38F

Flash Memory 8 MB

Size (HxWxD) 37x42x16 mm /
1.46x1.65x0.63 inch

Weight 24 g / 0.85 oz

Certifications RED, LVD, EMC, ROHS



EU



Shelly
2L Gen3



Power supply 220-240 V~ 50Hz (Shelly Bypass is required)

Max. switching power 200W through O1
700W through O2

Connectivity Wi-Fi 4
Bluetooth 4.2

CPU ESP-Shelly-C38F

Flash Memory 8 MB

Size (HxWxD) 37x42x16 mm /
1.46x1.65x0.63 inch

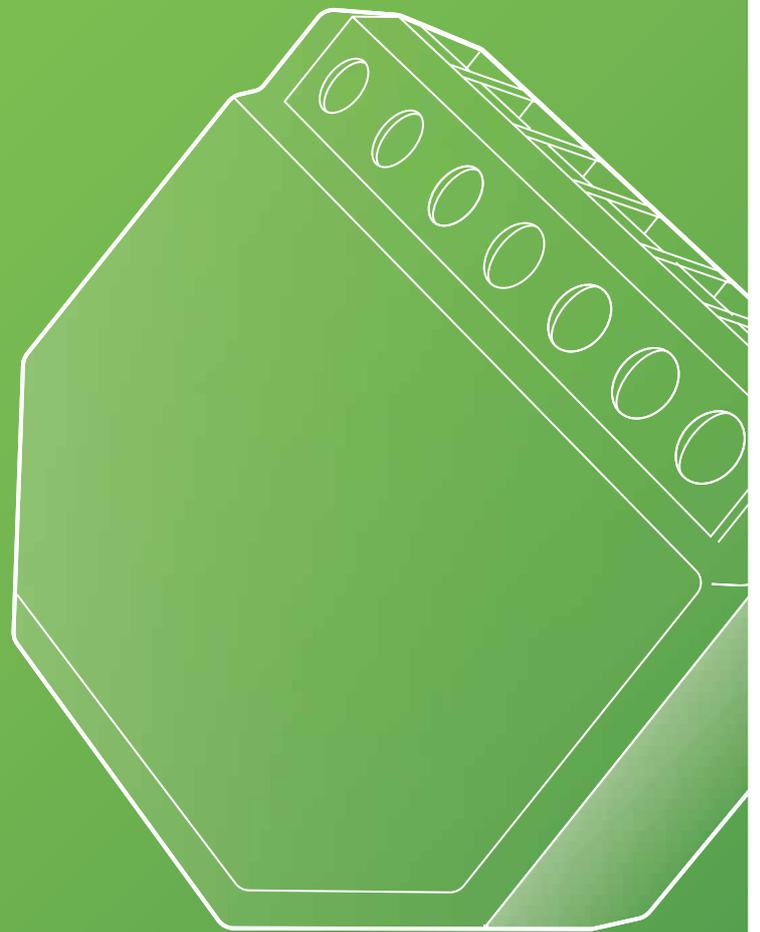
Weight 24 g / 0.85 oz

Certifications RED, LVD, EMC, ROHS





Dimmers



TYPICALLY USED FOR



LED strips



Lights



Dimming



17792210

17791005

17792430

GLOBAL



EU

ANZ



EU



Shelly DALI Dimmer Gen3



- Power supply 110-240 V~
- Max load Bus power supply guaranteed 10mA (up to 5 DALI control gear units), Short circuit current < 35 mA
- Connectivity Wi-Fi 4
Bluetooth 4.2
- CPU ESP32-C3 Shelly
- Flash Memory 8 MB
- Size (HxWxD) 38x42.5x16.5 mm / 1.50x1.67x0.65 inch
- Weight 18 g / 0.63 oz
- Certifications RED, LVD, EMC, ROHS, RCM, DALI-2



Shelly Dimmer Gen3



Compatible with no neutral installation

- Power supply 220-240 V~, 50 Hz (Shelly Bypass is required)
- Ammeter range (AC) 0 A - 3 A, ± 5 % (when used with neutral)
- Dimming type Trailing edge
- Connectivity Wi-Fi 4
Bluetooth 4.2
- CPU ESP32 C3 / STM32 G051
- Flash Memory 8 MB
- Size (HxWxD) 38x42.5x16.5 mm / 1.50x1.67x0.65 inch
- Weight 24.3 g / 0.86 oz
- Certifications RED, LVD, EMC, ROHS, RCM



Shelly Dimmer Gen4



Compatible with no neutral installation

- Power supply 220-240 V~, 50 Hz (Shelly Bypass is required)
- Ammeter range (AC) 0 A - 3 A, ± 5 % (when used with neutral)
- Dimming type Trailing edge
- Connectivity Wi-Fi 6
Bluetooth 5
Zigbee 802.15.4
- CPU ESP-Shelly-C68F
STM32 G051
- Flash Memory 8 MB
- Size (HxWxD) 38.5x43.5x17mm / 1.52x1.71x0.67in
- Weight 24.3 g / 0.86 oz
- Certifications RED, LVD, EMC, ROHS, SAA





17792080

GLOBAL



Shelly Pro Dimmer 2PM



Power supply **110-240 V~**

Max load **200 W per channel**

Connectivity **Wi-Fi 4
Bluetooth 4.2
LAN**

CPU **ESP32-D0WDQ6**

Flash Memory **8 MB**

Size (HxWxD) **94x19x69 mm /
3.70x0.75x2.71 in**

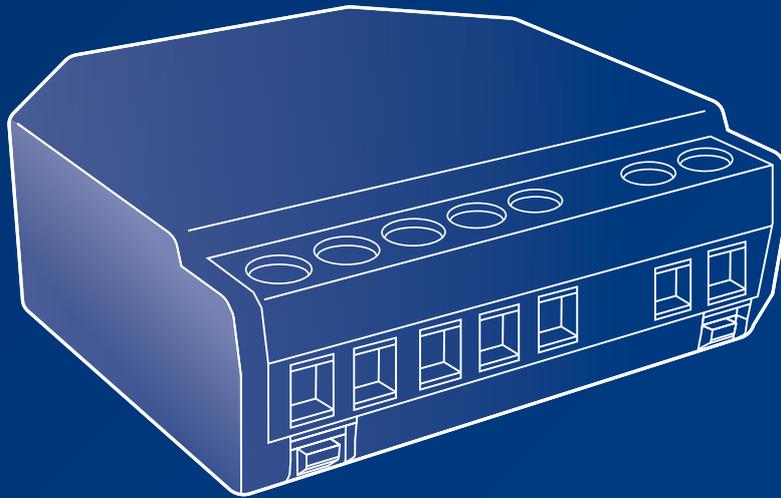
Weight **75 g / 2.7 oz**

Certifications **LVD, RED, EMC, ROHS, RCM**





0/1-10V Controllers



TYPICALLY USED FOR



LED strips



Lights



Dimming



Power monitoring



17792300

GLOBAL



Shelly Dimmer 0/1-10V PM Gen3



Power supply 110-240 V~

Max load 13 A (240 V~)

Connectivity Wi-Fi 4
Bluetooth 4.2

CPU Shelly ESP32 C3

Flash Memory 8 MB

Size (HxWxD) 38.5x43.5x17mm /
1.52x1.71x0.67in

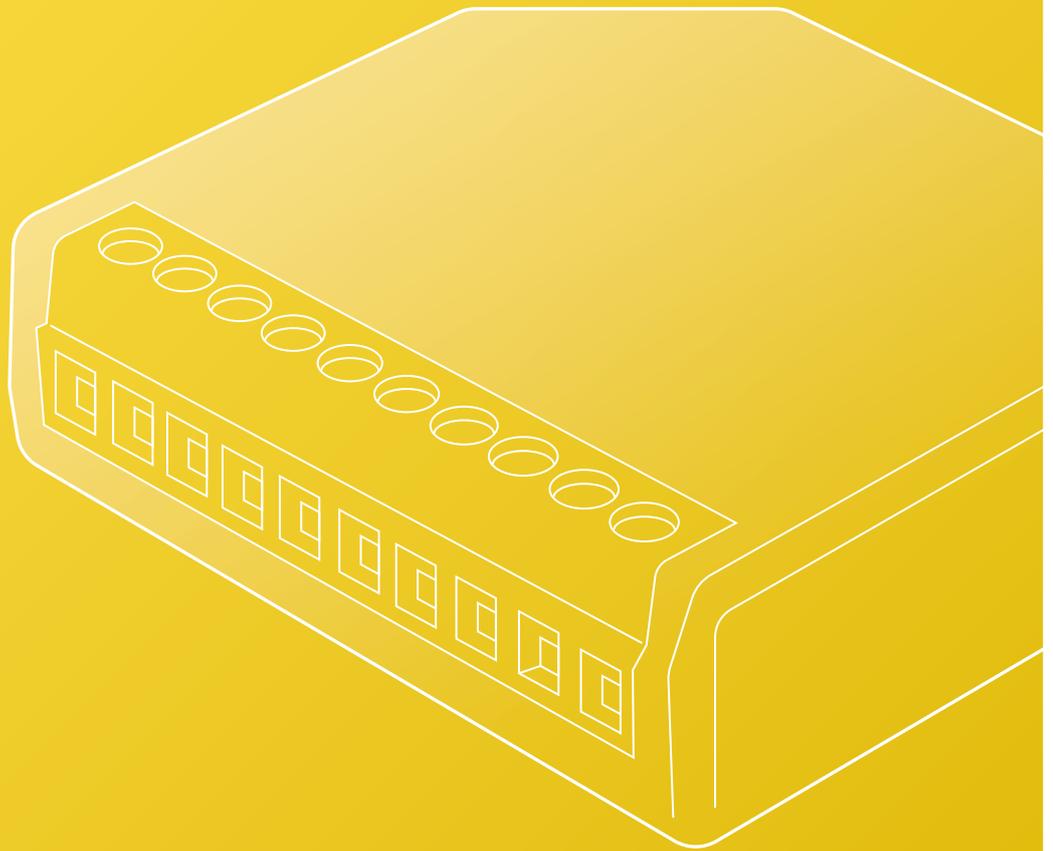
Weight 28.5 g / 0.99 oz

Certifications RED, LVD, EMC, ROHS, RCM





RGBW / RGBWW Controllers



TYPICALLY USED FOR



LED strips



Lights



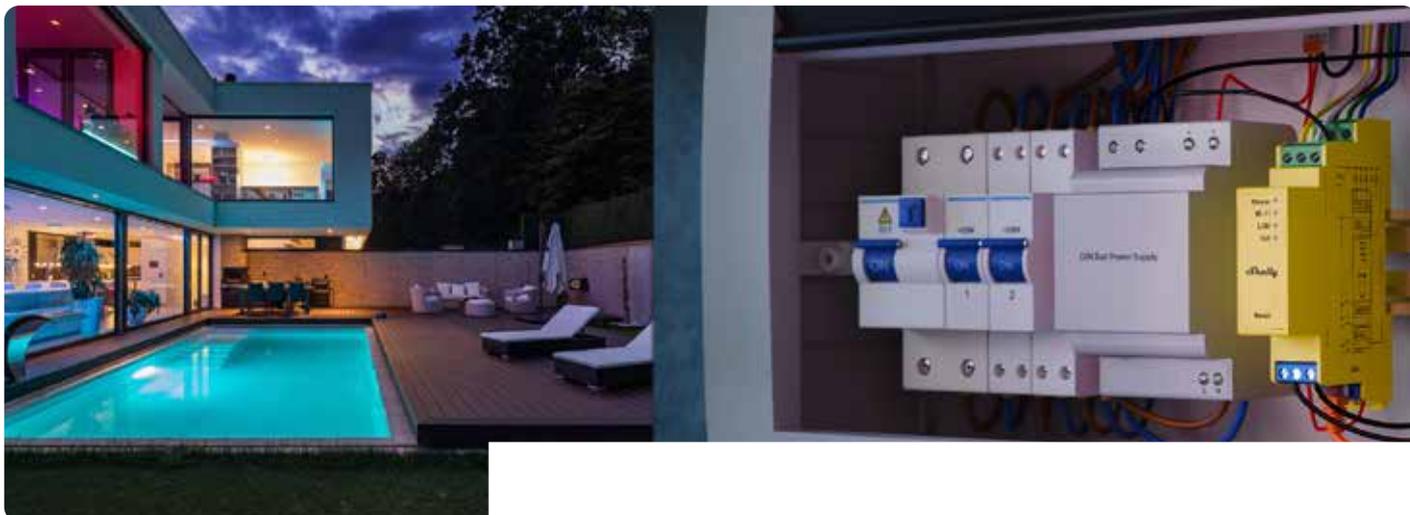
Dimming



Colour



Power monitoring



17791012

GLOBAL



Shelly
Plus RGBW PM



Power supply **12-24 V^{DC}**

Max load **4 A per channel (10 A total)**

Connectivity **Wi-Fi 4**
Bluetooth 4.2

CPU **ESP-Shelly-C38F**

Flash Memory **4 MB**

Size (HxWxD) **42x37x12 mm /**
1.65x1.46x0.66 inch

Weight **17 g / 0.60 oz**

Certifications **RED, EMC, ROHS, RCM**



TYPICALLY USED FOR



Lights



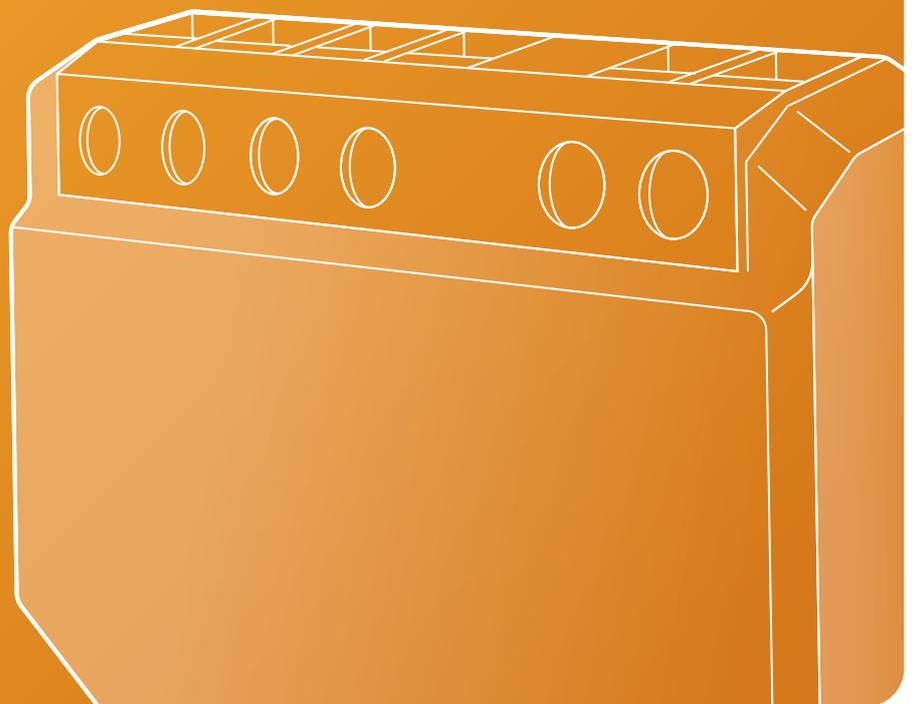
Appliances



Scene activation



Input Controllers





17792150

GLOBAL



Shelly
i4 Gen3



Power supply 110-240 V~

Max load -

Connectivity **Wi-Fi 4**
Bluetooth 4.2

CPU **ESP-Shelly-C38F**

Flash Memory **8 MB**

Size (HxWxD) **37x42x16 mm/**
1.46x1.65x0.63 in

Weight **19 g / 0.67 oz**

Certifications **LVD, RED, EMC, ROHS, RCM**





17791017

GLOBAL



Shelly
Plus i4 DC



Power supply **5-24 V^{DC}**

Max load -

Connectivity **Wi-Fi 4**
Bluetooth 4.2

CPU **ESP32-U4WDH**

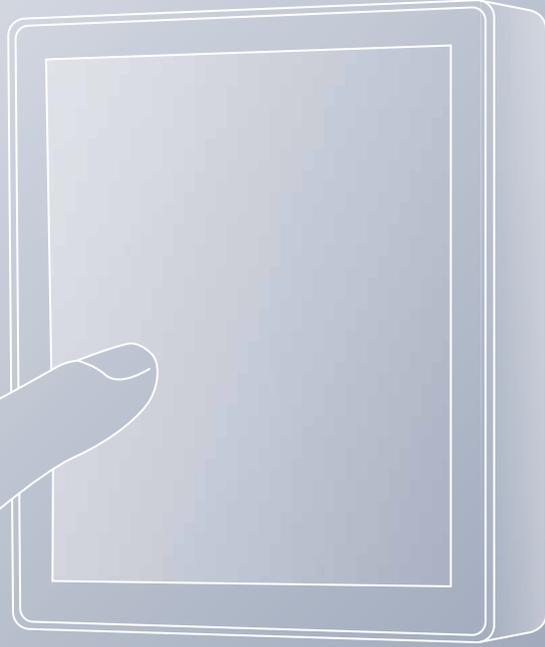
Flash Memory **4 MB**

Size (HxWxD) **37x42x16 mm /**
1.46x1.65x0.63 in

Weight **17 g / 0.6 oz**

Certifications **LVD, RED, EMC, ROHS**





Control Panels

TYPICALLY USED FOR



Room management



Centralized control



Thermostat



17792060

Coming Soon

Coming Soon

EU

ANZ



Shelly
Wall Display



Power supply **230 V~**

Max load **5 A**

Connectivity **Wi-Fi 4
Bluetooth 4.2**

CPU **MTK6580**

Flash Memory **4 GB**

Size (HxWxD) **85x85x30 mm /
3.35x3.35x1.18 inch**

Weight **180 g / 6.35 oz**

Display **4 inch color display**

Certifications **RED, LVD, EMC, ROHS, RCM**



[more info →](#)

EU



Shelly
Wall Display x2



Power supply **230 V~ / USB Type-C
power supply 5 V==**

Max load **5 A**

Connectivity **Wi-Fi 4
Bluetooth 5**

CPU **SC7731E, Quad Core A7
1.3 GHz**

Flash Memory **4 GB**

Size (HxWxD) **87x178x33 mm /
3.43x7x1.3 inch**

Weight **256 g / 9.03 oz**

Display **6.95 inch color display**

Certifications **RED, LVD, EMC, ROHS**



[more info →](#)

EU



Shelly
Wall Display XL



Power supply **100 - 240 V~ 50/60Hz /
USB Type-C power supply
5 V== / 3 A**

Max load **5 A**

Connectivity **Wi-Fi 6 Dual Band
(2,4 GHz & 5 GHz)
Bluetooth 5.4**

CPU **Rockchip RK3566 Quad
core Cortex-A55**

Flash Memory **16 GB**

Size (HxWxD) **155,8x272,5x38,3 mm /
6.13x10.7x1.50 inch**

Weight **920 g / 32.45 oz**

Display **10.1 inch 5-point capacity
color display**

Certifications **RED, LVD, EMC, ROHS**



[more info →](#)



Sensors & Remote Control

TYPICALLY USED FOR



Room management



Heating & Cooling



Motion detection

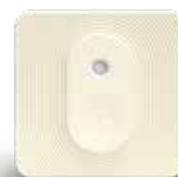


Leak & Gas detection



17792160 17792170

GLOBAL



Shelly
BLU H&T



Power supply **1x 3 V CR2032 battery**

Battery life **3 years**

Mounting **On a flat surface**

Connectivity **Bluetooth 4.2**

Size (HxWxD) **37x37x10 mm /
1.46x1.46x0.39 in**

Weight **13 g / 0.44 oz**

Certifications **LVD, RED, EMC, ROHS**





17792180

GLOBAL



Shelly
BLU Door/Window



Power supply 1x 3 VCR2032 battery

Battery life Up to 5 years

Mounting Glued to door or window

Connectivity Bluetooth 4.2

Size (HxWxD) 35x35x7 mm / 1.38x1.38x0.27 in (Sensor unit)
35x12x7 / 1.44x0.47x0.27 in (Magnet)

Weight 10 g / 0.35 oz - Device
8 g / 0.28 oz - Magnet

Certifications LVD, RED, EMC, ROHS





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GLOBAL



Shelly
BLU Button Tough1



Power supply 1 x CR2032 – 3V batteries

Battery life up to 2 years

Connectivity Bluetooth 4.2

Size (HxWxD) 42x42x13 mm /
1.65x1.65x0.51 in

Weight 15 g / 0.53 oz

Certifications LVD, RED, EMC, ROHS



SENSORS & REMOTE CONTROL



17792070

GLOBAL



Shelly
Plus UNI



Power supply	8-24 V~ 9-28 V== 5 V== (stabilized, via +5 V== and GND)
Max. control voltage	30 V
Max. control current	300 mA
Connectivity	W-Fi 4 Bluetooth 4.2
CPU	ESP32-U4WDH
Flash Memory	4 MB
Size (HxWxD)	40x21x7 mm / 1.57x0.83x0.28 in
Certifications	LVD, RED, EMC, ROHS





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Shelly
Flood Gen4



Power supply	4 x AA - 1.5 V batteries
Battery life	Up to 2 years
Leak sensor cable	2 m, extendable up to 150 m
Connectivity	Wi-Fi 6 Bluetooth 5 Zigbee 802.15.4
CPU	ESP-Shelly-C68F
Flash Memory	8 MB
Size (HxWxD)	97x76x25 mm / 3.82x2.99x0.98 inch
Weight	91 g / 3.21 oz (without batteries) 185 g / 6.53 oz (with batteries)
Certifications	LVD, RED, EMC, ROHS





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Shelly
Bypass for Dimmer Gen3

Working voltage **230 V~**

Compatible with **- Shelly Dimmer Gen3**

Size (HxWxD) **39x23x13 mm /
1.54x0.91x0.51 inch
(without wires)**





17792130

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Shelly Plus Add-on

Add-on for Shelly Plus devices. Can be used with up to five DS18B20 sensors or one DHT22 sensor.



17792240

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Shelly Temp. Sensor DS18B20

Can be used with Shelly Plus Add-on for measuring precise temperature.

Sizes:

- 3 m

Shelly

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