

Dimmer Switch

DOM-S-1 | Decora Format | Paddle-style Momentary | 9-LED Status Strip | Domatic Bus



The DOM-S-1 is a decora-format input device for the Domatic Bus. It mimics a traditional dimmer switch with a paddle-style rocker for momentary up/down control plus a 9-LED status strip — but because every behavior is software-defined in the PowerHub, a single switch can control any fixture or virtual circuit on the network: dimmable lights, on/off lights, fans, window blinds, scenes.

A single 16/2 cable carries both power and the network data connection — there are no switch legs to run. 3-way, 4-way, 10-way, or any-way control is simply a software association in the PowerHub, not a wiring topology.

Key Features

- ✓ Decora form factor — fits standard single- or multi-gang plates
- ✓ Paddle-style rocker for tap and press-and-hold control
- ✓ 9-LED status strip showing relative brightness (1 LED dim → 8 LEDs full) plus a low-position LED that locates the switch in darkness
- ✓ Software-defined behavior — any switch can control any fixture, scene, or device type via the PowerHub
- ✓ Native Domatic Bus interface — power and data on a single 2-wire CL2 cable; no switch legs required
- ✓ Supports any control topology (3-way, 4-way, 10-way, etc.) without additional wiring
- ✓ Mounts in low-voltage switch boxes, backless boxes, brackets, or standard junction boxes
- ✓ UL 62368-1 certified

Operation

Action	Behavior
Quick Tap Up	Restore the circuit to its previous “on” level
Quick Tap Down	Set the circuit to “off”
Hold Up	Gradually increase the circuit’s “on” level while held
Hold Down	Gradually decrease the circuit’s “on” level while held

Note Mappings between physical buttons and target circuits are configured in the PowerHub. The same button can control different devices in different scenes.

Electrical Specifications

Input Voltage	48 VDC
Power Source	Domatic Bus (powered from the PowerHub output port)
Communication	Domatic Bus (IEEE 1901 HD-PLC over the same 2-wire pair as power)

I/O Configuration

Pin	Function	Description
VIN	Domatic 48 V	Bus power, supplied by the PowerHub
GND	Domatic GND	Bus return / 0V reference

Status Indicator

The 9-LED strip on the left side of the switch indicates the state of the controlled circuit.

LEDs 1 – 8 (top)	Relative brightness — one LED for dimmest, eight for brightest
LED 9 (bottom)	Lit when the circuit is off — locates the switch in darkness
Assignment	The indicator can be bound to any virtual circuit, independent of the switch's button bindings

Mechanical Specifications

Length	105 mm
Width	45 mm
Depth	27 mm
Faceplate Opening	83.3 mm × 45 mm (decora cutout)
Material	Plastic body with aluminum heatsink

Environmental Specifications

Operating Temperature	0 – 40 °C
Humidity	0 – 90% non-condensing
Installation	Indoor only

Mounting

The DOM-S-1 fits any of the following:

- Single- or multi-gang low-voltage switch box
- Backless box or mounting bracket
- Standard junction box

Multiple switches in the same gang share the same single 16/2 cable run from the Domatic Bus — no per-switch home-runs are required.

Cabling

The DOM-S-1 is powered by the PowerHub and connects to a PowerHub output port via NEC Class 2 cable with two conductors: power and ground, with the network protocol embedded on the same conductors. Connections are made with 16 AWG (1.3 mm²) wire nuts or other UL/CE-approved connectors.

Conductors	2 (power + ground)
Wire Gauge	16 – 28 AWG (1.3 – 0.08 mm ²), stranded or solid
Cable Type	Plenum or riser
NEC Rating	CL2
Shielding	Optional
Wire Twist	Recommended
Connectors	16 AWG (1.3 mm ²) wire nuts or other UL / CE-approved connectors

Caution Cables must be assembled per the manufacturer’s guidelines using the specified tools to ensure system safety and integrity.

Standards & Compliance

Safety	UL 62368-1
Power Source	NEC Class 2 from the PowerHub output
Installation	Indoor; low-voltage switch box or junction box

Ordering Information

<i>Model Number</i>	<i>Description</i>
DOM-S-1	Switch – Decora-format, 9-LED status strip, Domatic Bus