



D3

3-channel RGB LED dimmer · WiFi

One RGB strip or three single-colour zones, in a mini format.

3

PWM CHANNELS

12-24

VDC

1

INPUT

mini

WALL BOX

PART NUMBER **S-DW003**FAMILY **LED dimming**FIRMWARE **4.3.14**

Datasheet S-DW003

DIMMING OUTPUTS

Load type	Constant-voltage LED strips 12-24 VDC. Does not dim 230 V luminaires.
Count	3 PWM channels (R · G · B), switched negative: 1 RGB strip or 3 single colour
Max. current per channel	≈ 3 A (no heatsink, 50 °C) · calculated
PWM	1 kHz, 4096 levels (12-bit)
Dimming	0-100 % with gamma curve, fade, per-channel minimum and maximum
Connection	One 6-pole terminal: + · - · i1 · R · G · B. Strip + goes to the PSU.

INPUTS

Count	1 (i1)
Wiring	Push-button or switch between + and i1 (SELV)
Gestures	Single, double, triple and long press. No preset link: set in Triggers.

POWER SUPPLY

Supply	12-24 VDC from the LED strip supply (SELV)
Own consumption	≈ 0.6 W (LED load not included) · calculated

COMMUNICATIONS

WiFi	2.4 GHz 802.11 b/g/n, built-in antenna
Ethernet	No
Commissioning	Own WiFi access point with captive configuration portal. No app required.
KNX	KNXnet/IP routing and tunnelling; objects per channel; CSV and .knxproj export for ETS
Modbus TCP	Server, port 502, up to 2 clients, published register map
Matter	Yes (bridge, one endpoint per channel): Apple Home, Google Home, Amazon Alexa
Local API	HTTP REST + local automations (event → URL) with conditions

Drivers	Savant, Crestron Home, RTI, Vantage, URC
Updates	OTA over the internet (stable and beta channels) or local file, no cloud

MECHANICAL AND ENVIRONMENT

Format	Mini enclosure for wall box or junction box
Dimensions	40.6 × 40.6 × 19.1 mm
Weight	≈ 25 g · estimated
Protection	IP20 (indoor, in enclosure)
Operating temperature	0 to +50 °C

STANDARDS

Directives	EMC 2014/30/EU, RED 2014/53/EU, RoHS 2011/65/EU
KNX / Matter	Compatible. Not certified by KNX Association or CSA.
Warranty	2 years

