

# HX-SZ900-010D

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Category: 0-10V Dimming Controllers

Source model: HX-SZ900-010D

Internal reference: HOION-CTRL-090

## Product Overview

HX-SZ900-010D adopts two control methods, 0-10V and PUSH, to achieve high-quality dimming function; At the same time, the dimmer also has RJ45 synchronous network ports, which can achieve wired synchronous changes of multiple dimmers.

## Technical Details

### Product Feature

0-10V dim and PUSH dim 2 in 1.

PWM frequency is settable, 2KHz~16KHz.

Input DC12-48V, Max. output current 1 \* 25A, Max. load is 300W/12V, 480W/24V, and 576W/48V;

With RJ45 synchronous network ports, which can achieve wired synchronous changes of multiple dimmers by flexible connection.

Short-circuit protection.

Memory function.

3-year warranty.

### Technical Parameters

| Working temperature | 0-45℃ | Supply voltage | DC12-48V

| Output | 1 channel | Static power consumption | <1W

| Dimming range | 0-100% | 0-10V signal consumption | 0.1mA

| Net weight | 125g | External dimension | L115\*W70\*H24 mm

| Gross weight | 140g | Packing size | L120\*W75\*H30 mm

| Short-circuit protection | Yes | Control standard | 0-10V and PUSH

| Memory function | Yes | PWM frequency | 2KHz (factory default)/16KHz

| Max. output current/power | PWM=2KHz: 1\*25A/12V/300W, 1\*20A/24V/480W, 1\*12A/48V/576W  
PWM=16KHz: 1\*13A/12V/156W, 1\*10A/24V/240W, 1\*6A/48V/288W

### Dimensions

### Interface Specifications

#### 1. Green indicate light

- 1) After power on, it will light up for a few seconds and then turn off;
- 2) When connecting the network cable and acting as a slave, it will continuously flash;
- 3) When operating 0-10V and PUSH signal, the indicator light will light up;

#### 2. DIP switch for PWM frequency setting.

| DIP switch | PWM frequency

| ON | 16KHz

| OFF (factory default) | 2KHz

Important: the Max. output currents are different according to the different PWM frequency, please make sure the over loading is not occurred.

#### 3. Dim function

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This product supports 0-10V dim and PUSH dim, and can be used in combination.  
PUSH dim: 1/4" Short-pressing for ON/OFF; long-pressing for dim function.

## Typical Applications

Application circuit 1: PUSH dim connection

Application circuit 2: 0-10V dim connection

Application circuit 3: multiple dimmers sync-dim via 0-10V, each unit can be independently controlled through PUSH mode at the same time.

Application circuit 4:

- 1) Multiple 0-10V synchronous dimming devices, combined with network port synchronization function, achieve more flexible installation (the network port synchronization distance between every two devices can reach 80 meters).
- 2) In this application, PUSH dimming acts independently on the connected devices or subsystems.

Tips: When achieve the sync-dim via the RJ45, any device can be used as the master (the first device in the subsystem will automatically default to be the master). The master is controlled by 0-10V signals and PUSH signal, while other slaves are only controlled by the synchronization signal from the master.

Application circuit 5: sync-dim via RJ45

Tips: The device located in the first position is automatically be the master, which is controlled by 0-10V signals and PUSH signals. The slave units are only controlled by the synchronization signal of the network cable from the master, achieving overall synchronization control.

## Product information for placing order

| Product name | Item number

| LED 0-10V/PUSH Dimmer | HX-SZ900-010D

Source reference: [https://www.hoionlighting.com/products/LEDdiaoguangqi/0\\_10Vdiaoguangqi/2025/1010/423.html](https://www.hoionlighting.com/products/LEDdiaoguangqi/0_10Vdiaoguangqi/2025/1010/423.html)