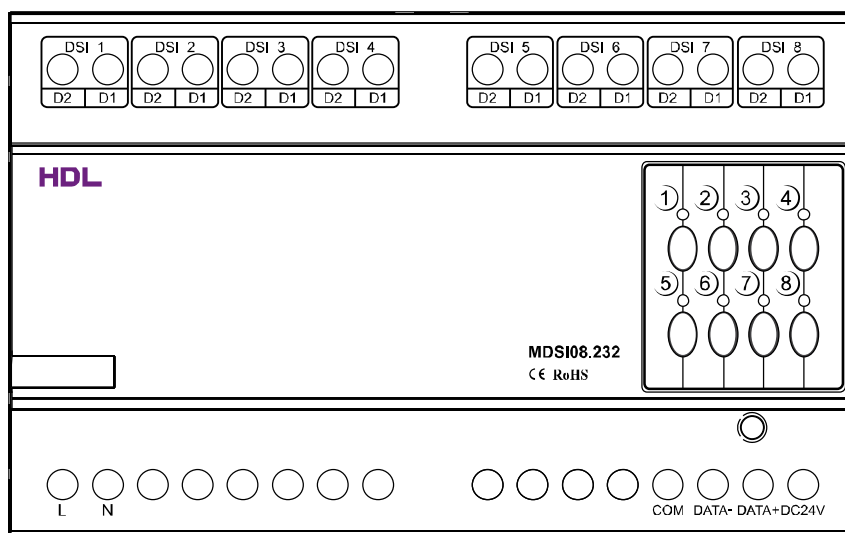# HDL

## Datasheet

8-channel DSI intelligent dimmer

SB-DN-D08DSI

# Summarize

SB-DN-D08DSI is an intelligent DSI dimmer developed by HDL, it is used to dim DSI ballast and it has scene control functionality. Every channel has a button which can be used to manually switch on/off the channel and there are  small LEDs to indicate the status.

# Features

- Scene control;
- 8 DSI channel, every channel can connect with up to 64 DSI ballasts;
- Up to 8 separated area can be set;
- Every area can have 16 scenes, the longest running time for each scene is 60 minutes;
- Every channel has lower limit, higher limit, max level, these parameters are used to meet the characteristics of   different loads;
- DSI port is galvanically isolated from HDL-BUS, using Opto-isolator.;
- Default scene when powered on can be set as last scene when powered off or designated scene.
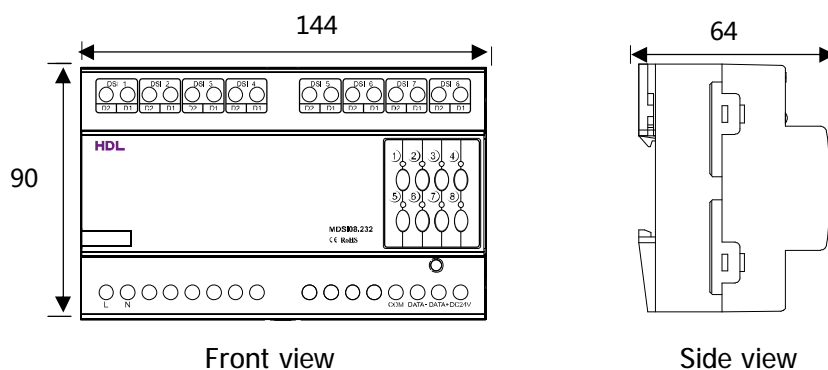
# Parameter

- working voltage range:                                  DC15~30V
- power consumption:                                   10mA/DC 24V
- DSI power range:                                         AC220V
- channel no.:                                                      8
- output signal standard:                                       DSI
- max. ballasts with each channel:                               64
- Installation standard:                              35mm DIN rail
- product size:                                  144mm*90mm*64mm
- CE accredited

## Environment conditions

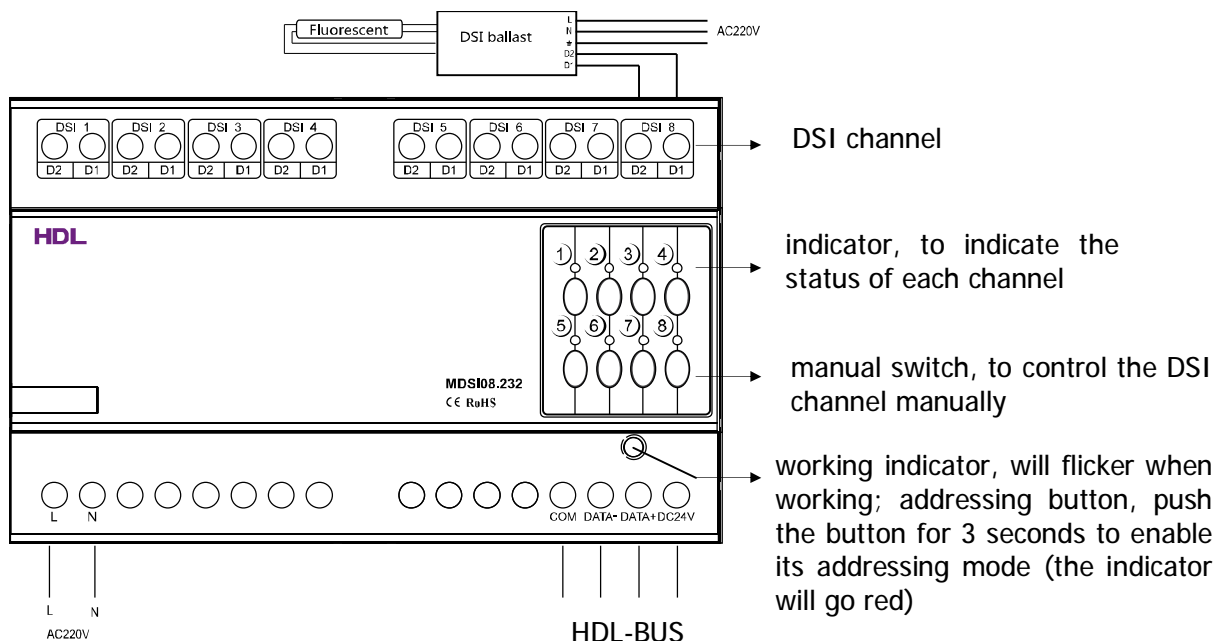- Working Temperature：                                    -20℃~85℃
- Working Relative Humidity：                              10%~98%
- Storage Temperature：                                   -40℃~+100℃
- Storage Relative Humidity：                             10%~98%
- IP class:                                               IP20

## Product size and installation requirements



Front view                                               Side view

- DSI power cable standard: 2.5mm² copper wire.
- specific bus cable supplied by HDL (or CAT5E standard cable) is recommended to connect HDL-BUS.

## Wiring



DSI channel

indicator, to indicate the status of each channel

manual switch, to control the DSI channel manually

working indicator, will flicker when working; addressing button, push the button for 3 seconds to enable its addressing mode (the indicator will go red)

Note: wiring of channel 8 is shown above, wiring of other channels are same.

## Special bus cable supplied by HDL

| Red | DC24V |
|-----|-------|
| Black | COM |
| White | DATA- |
| Yellow | DATA+ |

## HDL-Bus CAT5 Wire Definition

| Brown, White & Orange, White | For COM |
|------------------------------|---------|
| Blue, White & Green, White | For DATA- |
| Blue & green | For DATA+ |
| Brown & Orange | For DC24V |