## DSI-A/D

Converter for 1...10 V into DSI signal 1-channel for installation in luminaire


### Product description

- Converter for converting analogue signals into DSI signals
- For connecting DSI devices in 1...10 V control systems
- For a maximum of 50 DSI devices
- Constant lighting control possible via terminal for SMART LS II
- On/off switching via separate switch input
- 5-year guarantee

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**Wiring diagrams and installation examples**, page 3

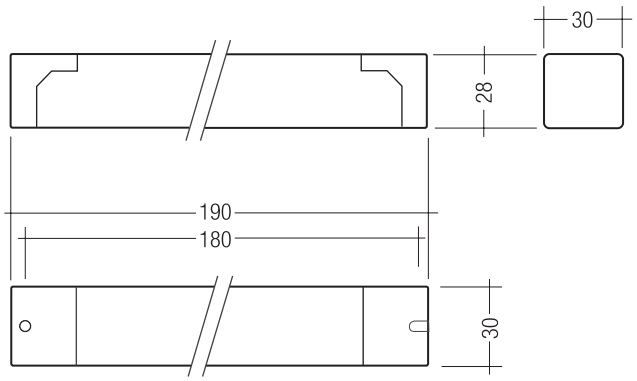
RoHS

## DSI-A/D

Converter for 1...10 V into DSI signal 1-channel for installation in luminaire

### Technical data

| | |
|---|---|
| Rated supply voltage | 230 – 240 V |
| Mains frequency | 50 / 60 Hz |
| Power | 4 W |
| Ambient temperature ta | 0 ... +60 °C |
| Type of protection | IP20 |




### Ordering data

| Type | Article number | Packaging, carton |
|---|---|---|
| **DSI-A/D** | **28000850** | 10 pc(s). |

### Specific technical data

| Type | Inputs | | | | Outputs | | |
|---|---|---|---|---|---|---|---|
| | Dimming | Dimming, potentiometer (optional)① | ON/OFF switch (220–240 V) | Ambient light sensor | Digital control line DSI | Control output per physical output (devices) | Maximum DSI cable length at 1.5 mm² |
| **DSI-A/D** | 1 ... 10 V | 47 (≥47 ≤100) kΩ | 1 | 1 | 1 | 50 | 100 m |

① Potentiometer with linear characteristics, optimum: 47 kOhm, possible range: 47 – 100 kOhm; power ≥0,5 W.

**Glow-wire test**
according to EN 61347-1 passed.

The DSI-A/D module converts an analogue 1–10 V signal into the digital DSI control signal. This enables PCA/TE one4all/PCD digital devices to be integrated in existing analogue control systems.

Operating devices connected can be adjusted for constant light by connecting a SMART LS II.

By connecting a SMART LS II the DSI-A/D can be used as a constant light control module.

This operation mode deactivates the analogue 1–10 V input. ON/OFF switching via the ON/OFF input is possible.

- terminal cover and strain relief enclosed

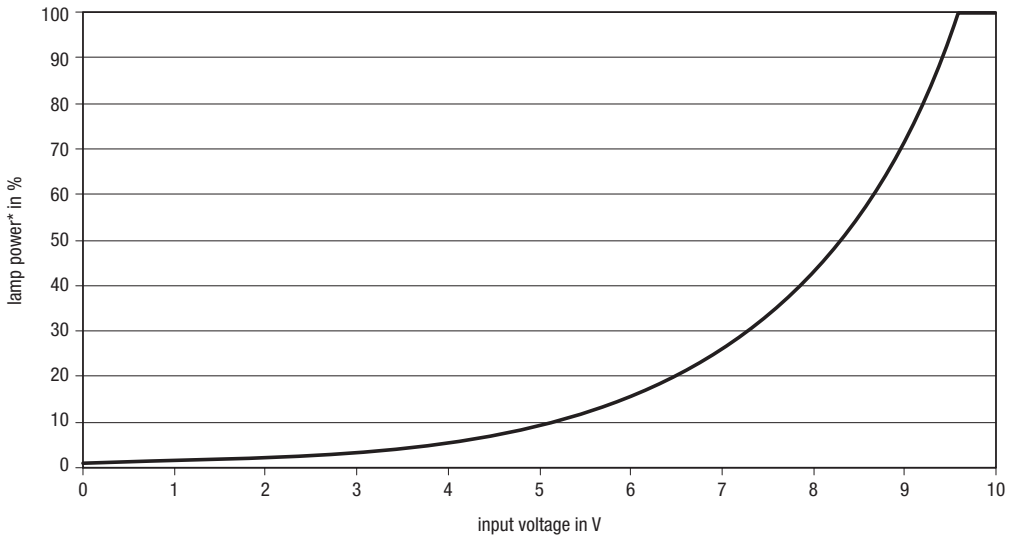
If the 1-10 V input is open (unconnected) the lighting is set to maximum.

**Control with passive potentiometers**
To accurately adjust light levels it is recommended that you use a 47 kΩ potentiometer. If a 100 kΩ potentiometer is already in use, then install a resistor in parallel (68 kΩ, ≥ 0.5 W). Connect the 47 kΩ potentiometer only with a DSI A/D. The parallel wiring of the potentiometer is not allowed.

**Control with a 1–10 V voltage source**
The 1–10 V input is supplying a control current for operation with passive potentiometers. In the event of using an active voltage source please be aware that this source has to be able to sink a current of 2 mA to enable correct adjustment.

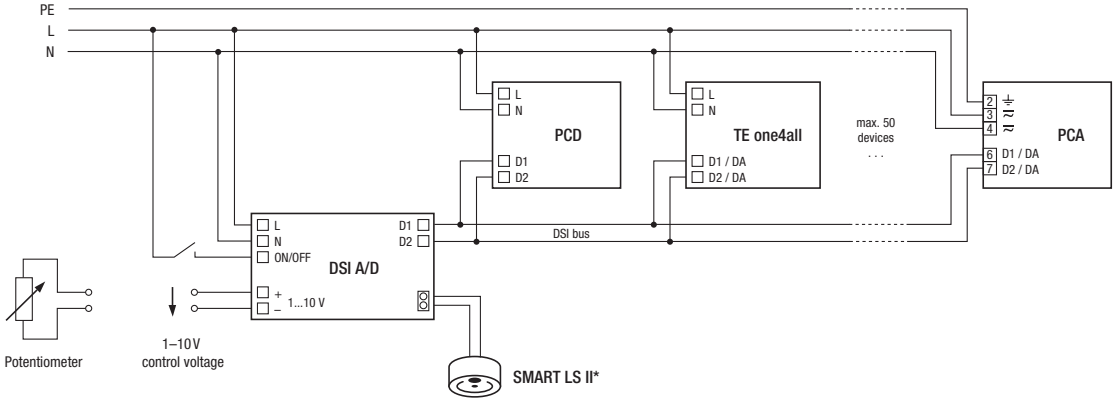
If the voltage source is not able to sink a 2 mA current it is possible to set a resistor (470 Ω, ≥ 0.5 W) in parallel. In this case the voltage source has to supply a minimum current of 20 mA to reach the maximum needed output voltage of +10 V.

Lamp power vs. 1–10 V control voltage




* The lamp power changes logarithmic to dim according the eye sensitivity.

**Wiring**




* is a SMART LS II sensor connected, the 1–10 V function is disabled.