

DSI-A/DS

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

Product description

- Converter for converting analogue signals into DSI signals
- For installation in switching cabinets
- For connecting DSI devices in 1...10 V control systems
- For a maximum of 100 DSI devices
- On/off switching via separate switch input
- 5-year guarantee



Wiring diagrams and installation examples, page 3



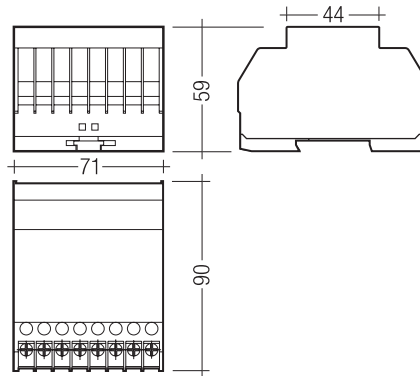


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Technical data

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



Ordering data

Type	Article number	Packaging, carton	Weight per pc.
DSI-A/DS	28000859	10 pc(s).	0.233 kg

Specific technical data

Type	Inputs			Outputs		
	Dimming	Dimming, potentiometer (optional) ^①	ON/OFF switch (220-240 V)	Digital control line DSI	Control output per physical output (devices)	Maximum DSI cable length at 1.5 mm ²
DSI-A/DS	1 ... 10 V	47 ($\geq 47 \leq 100$) k Ω	1	1	100	250 m

^① Potentiometer with linear characteristics, optimum: 47 k Ω , possible range: 47 - 100 k Ω ; power \approx 0.5 W.

1. Standards

1.1 Glow-wire test

according to EN 60598-1 passed.

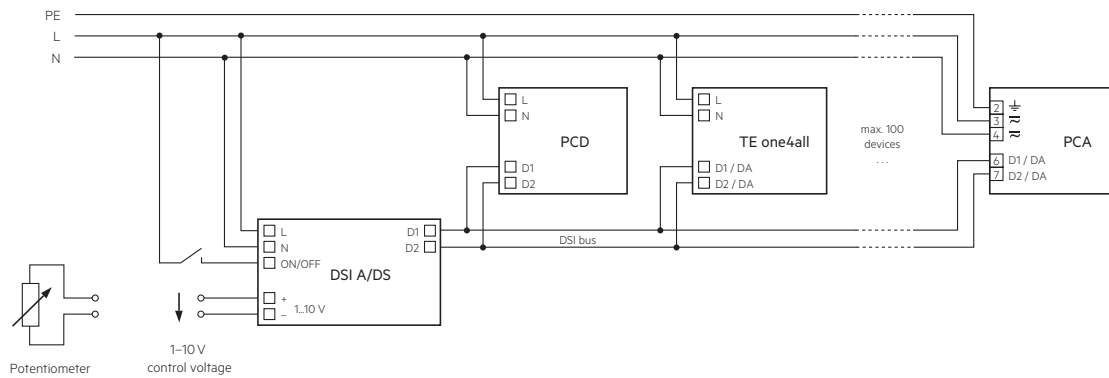
2. Common

The DSI-A/DS module translates the 1–10 V analogue signal into a DSI digital control signal.

In this way PCA/TE one4all/PCD units can be integrated into existing analogue control systems.

3. Installation

3.1 Wiring



4. Functions

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

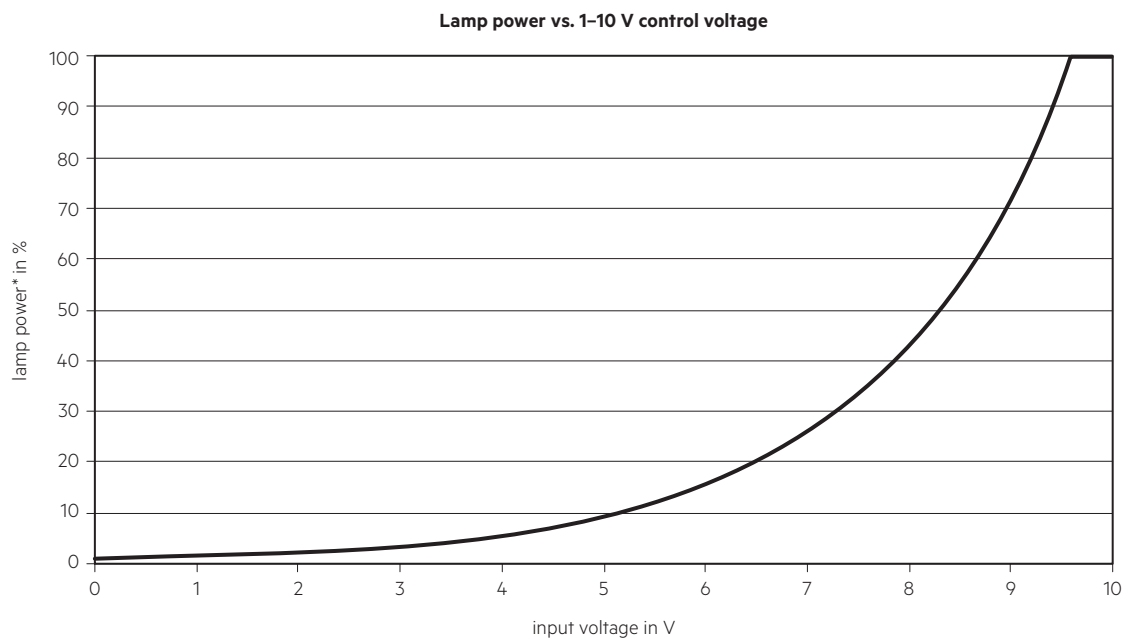
4.1 Control with passive potentiometers

To accurately adjust light levels it is recommended that you use a 47 k Ω potentiometer. If a 100 k Ω potentiometer is already in use, then install a resistor in parallel (68 k Ω , \geq 0.5 W)

4.2 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 2mA current it is possible to set a resistor (470 Ω , \geq 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.



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

5. Miscellaneous

5.1 Disposal



According to the WEEE directive return old equipment at appropriate collection facilities.

5.2 Additional information

Additional technical information at www.tridonic.com → Technical Data

Guarantee conditions at www.tridonic.com → Services

Life-time declarations are informative and represent no warranty claim.
No warranty if device was opened.