



DSI-PCD/S

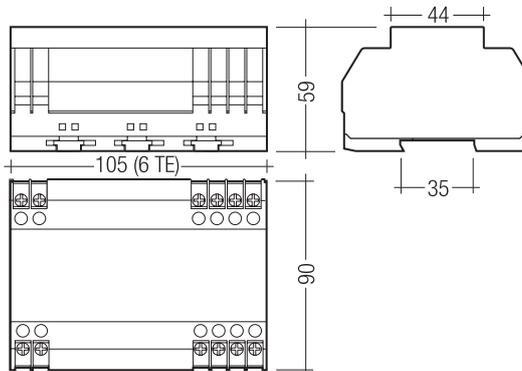
40 – 1,000 VA leading-edge/trailing-edge phase dimmer with preset

Product description

- Digital leading-edge and trailing edge phase dimmers
- Control via DSI signal or switch
- Preset function: storage and retrieval of any lighting value
- With automatic load detection
- For installation in switching cabinets
- Status LED for indicating the operating status
- Not suitable for operation with LED bulbs

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Connected load	40 – 1,000 VA
Power loss	2 W (15 W at full load)
Ambient temperature t_a	0 ... +40 °C
Type of protection	IP20



Wiring diagrams and installation examples, page 2

Ordering data

Type	Article number	Packaging carton	Weight per pc.
DSI-PCD/S	22154333	1 pc(s).	0.41 kg

Specific technical data

Type	Inputs			Outputs		Terminals
	Switch input for preset retrieval	Single or twin push to make switches	DSI control input	Dimmed phase	Control range, output	
DSI-PCD/S	1	1	1	1	0; 1 – 100 %	0.75 – 2.5 mm ²

Glow-wire test

according to EN 60598-1 passed.

Phase dimmer with automatic load detection-phase or reverse phase. Control by means of a DSI signal or via momentary switch. Total connected load 40–1000 VA. Light value memory (Preset function)

Application

With the digital phase dimmer it is possible to dim LV halogen lamps in connection with electronic or magnetic transformers, as well as ohmic light sources (incandescent lamps and HV halogen lamps) with a total connected load of 40–1000 VA.

Control by means of a DSI signal or via directly connected momentary light switches. In addition, the DSI-PCD/S allows the storage and the recall of any desired light value (Preset function).

The digital phase dimmer is not compatible with LED retrofit lamps. LV halogen LED retrofit lamps that are operated by an electronic or magnetic transformer are also not compatible.

Functional description

The DSI-PCD/S can be controlled via a DSI signal. This is the preferred option when several DSI-PCD/S should be controlled synchronously. In this case, operation takes place only via the device from which the DSI-PCD/S receives the DSI signal, e.g. modularDIM BASIC.

As an alternative to the operation by means of a DSI signal, the DSI-PCD/S can be operated via a locally connected momentary switch. The lighting can be switched or dimmed by means of the momentary switch inputs T↑ or T↓.

Double momentary switch control:

ON/OFF: short key pressure on T↑ or T↓
UP: long key pressure on T↑
DOWN: long key pressure on T↓

Single momentary switch control:

ON/OFF: short key pressure
UP/DOWN: long key pressure
(alternating dimming direction at each key-press)

Preset function:

By connecting a commercially available momentary switch to the "Preset" input, it is possible to save and call up again any light value.

Saving and call up of a light value:

Adjust the light value by means of the momentary switch T↑ or T↓ and then hold the "Preset momentary switch" pressed (> 5 seconds). Recall of the stored light values by a short pressure (< 5 seconds) of the "Preset momentary switch".

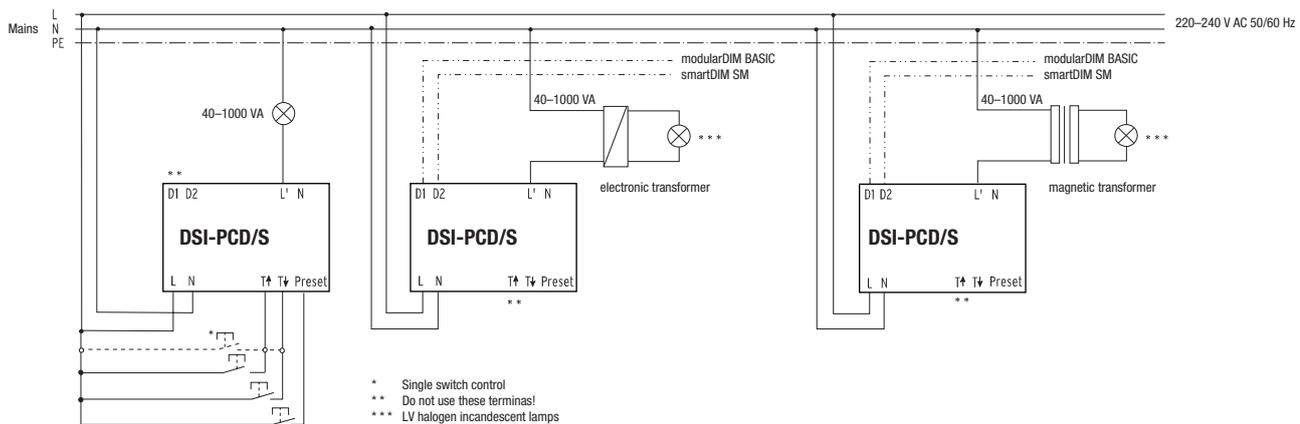
Notes

The DSI-PCD/S can be controlled either via a DSI signal or via directly connected momentary light switches.

The automatic detection is performed after every power reset. If magnetic and electronic transformers are connected to an DSI-PCD/S at the same time, this will destroy the dimmer.

If the joint operation of several DSI-PCD/S is desired, the control must be accomplished via a DSI signal.

Please provide for sufficient heat abduction within the switch cabinet, since the admissible ambient temperature of the DSI-PCD/S must not exceed 40 °C. The DSI-PCD/S must be mounted on the sides of the switch cabinet in horizontal position to ensure air-circulation through the housing slots.



Circuit diagramm DSI-PCD/S