



**DATA SHEET**  
**SITU**  
 for controlling 1-10 V ballasts  
 Article number 09500197



[Internetlink](#)

**Function**

"Couplers for external systems" are devices that can send and receive external voltages or protocols. For this reason they can also be called interfaces. The SITU operating signal converter is a rail-mounted component of the SI surge technology system. It acts as an electronic potentiometer and is employed for controlling electronic chokes and dimmers, which are equipped with a 0-10 V interface. This enables e.g. fluorescent light tubes to be easily dimmed. The SITU has a relay-actuated switching contact used for switching the electronic ballast; the device indicates the operating status by means of a LED on the front of the device and at the semiconductor output A1. The control unit is operated via standard pushbuttons by means of impulses from the 24 V DC operating voltage. Inputs for the following functions are available. Memory On/Off/Dimming, Memory On (direct start-up using memory value), Central On (100 % illumination level) and Central Off (0 % illumination level).

**Features**

Status display using front red LED, Inputs (24 V DC) for central-ON, central-OFF, memory-ON and smooth adjustment/on/off, 1-10 V interface as output for electronic ballasts, potential-free NO contacts for max. 25 electronic ballasts

**Mounting**

quick fastening to mounting rail, any installation position

**Applications**

In conjunction with 1-10 V el. chokes SITU controls lighting in domestic homes, banks, hospitals, catering establishments etc.

**Notes**

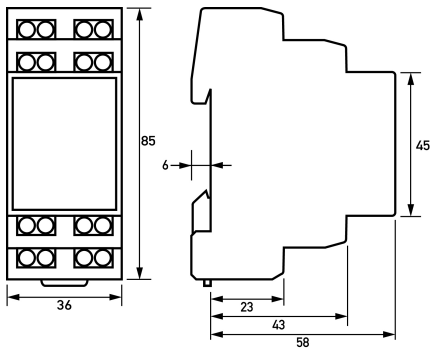
In order to avoid differences in lighting levels when using el. chokes, it is advisable to employ devices of just one manufacturer, of the same type and of the same output.

**Technical Data**

Technical Data	SITU
Series	SITU
Manual operating mode possible	true
Operating voltage (DC)	24 V (21.5 V ... 26.5 V)
Type	Display Switching position LED (red)
Galvanically separated	Control input true
Rated voltage (DC)	24 V (21.5 V ... 26.5 V)
Rated current	1 mA
Bounce time of push buttons	10 ms
Load factor	1 ELF
Specification	1-10 V output Semiconductor
Number	1
Rated voltage (DC)	1 V ... 10 V
Rated current (DC)	0.04 A
Specification	Load output Relay

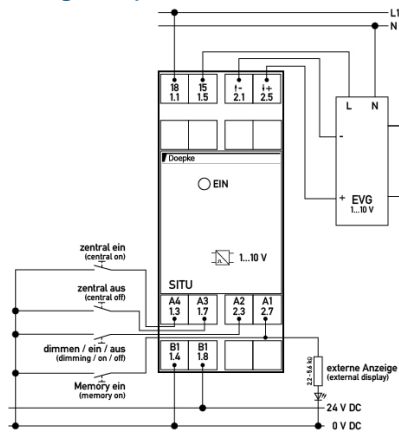
Technical Data	SITU
Number	1
Rated current (AC)	10 A
Rated frequency	50 Hz
	Screw-type terminal top and bottom (Voltage supply)
Clamping area	0.4 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section solid	1-wire: max. 2.5 mm <sup>2</sup>
Cross section stranded	1-wire: max. 1.5 mm <sup>2</sup>
Tightening torque	max. 0.6 Nm
General data description	General data
Operating position	any
Ambient temperature	-10 °C ... 45 °C
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Polycarbonate (PC)
Protection class	IP30
Width	35 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Width (modules)	2
Design requirements/Standards	EN 60669-1

Dimensions



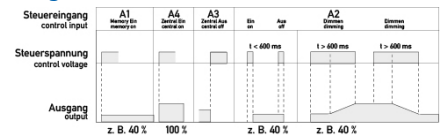
Dimensional drawing Group view

Wiring example



Wiring diagram

Diagrams



Characteristic