



DATA SHEET

DSU 8plus

Article number 09501244



[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 DSU 8plus input module is a component of the Dupline bus system for implementing up to 8 voltage signals for transmission on the Dupline bus. The inputs of the device are opto-decoupled and facilitate the evaluation of DC and also AC voltage signals from 0 V to 230 V. The switching thresholds of 20 V and 190 V can be set individually for each input. The user-friendly configuration and operation of the device are carried out using the front keys and menu guidance on the LC display. The display and simulation, for example, of the current input statuses are supported, as well as the Dupline address configurations, switching thresholds and background lighting.

Features

8 inputs with wide-reaching voltage range, polarity at the inputs does not have to be observed, easy operation, configuration, display and simulation of inputs thanks to two-line LC display and control keys, compact module with just 4 width units

Mounting

quick fastening to mounting rail, any installation position

Applications

The input module, in conjunction with the Dupline bus system, serves for transmitting input data, e. g. of switching signals of push-buttons, proximity detectors, room thermostats, status messages in distributions (undervoltage alarms, auxiliary switches etc.) and outputs of alarm systems.

Notes

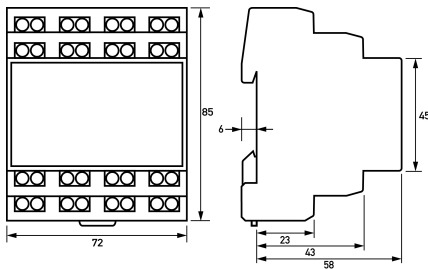
When connecting dangerous voltages (e.g. mains voltage) of different phases to the inputs, the wiring sequence must be implemented so that L and N alternate each time, Mixing input signals with SELV (e.g. 24 V DC) and these types of potentials which put persons at risk (e.g. mains voltage) is only permitted when during installation the requirements of the previously mentioned standard are met at least, If there is a mixed connection (see above) at least one terminal between these connections must remain unused. The free terminal must be permanently secured against use and the documentation of the installation must contain a corresponding note, The inputs are suitable only in a limited way for implementing smoothly adjusted mains voltages, e.g. from dimmer outputs with leading and trailing edge. The frequency of the carried voltages must not exceed 60 Hz.

Technical Data

Technical Data	DSU 8plus
Series	DSU 8plus
design	Dupline
max. IF Bus system input channel	8
current consumption bus	900 µA (800 µA ... 1000 µA)
Operating voltage (DC)	24 V (21.5 V ... 26.5 V)
max. Ripple voltage	0.1 V
Current consumption (DC)	0.017 A (0.013 A ... 0.025 A)
Type	Display menügeführte Bedienung LC display (alphanumeric)
Dimensions	W 43.9 mm · H 10 mm
number of lines	2
Characters per line	16
	Display Fault

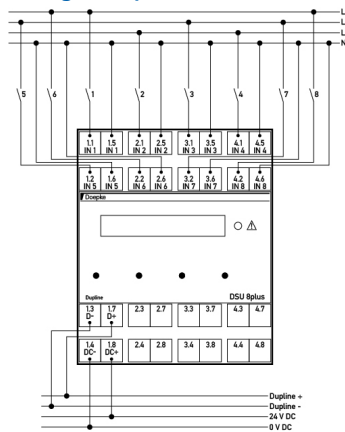
Technical Data	DSU 8plus
Type	LED (red)
	Semiconductor input
number	8
Galvanically separated	true
Rated voltage (AC)	0 V ... 230 V
Rated voltage (DC)	0 V ... 230 V
Rated current	max. 7.5 mA
Rated frequency	0 Hz ... 50 Hz
	Strain relief clamp (Voltage input)
Clamping area	0.4 mm ² ... 2.5 mm ²
Tightening torque	max. 0.6 Nm
General data description	General data
Operating position	any
Ambient temperature	-10 °C ... 45 °C
Permissible humidity	max. 85 %
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Polycarbonate (PC)
Protection class	IP20
Width	72 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Width (modules)	4
Design requirements/Standards	EN 60669-2-1, EN 50428, EN 50491-3, EN 50491-4-1, EN 50491-5-1, EN 50491-5-2

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram