



# DATA SHEET

## DSI 1

Article number 09501116



[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 DSI 1 enables master control units with Modbus protocol to be linked to the Dupline bus. Recommended master devices are e.g. the DSC 10, DSC 20 and DSC 30 series touch screen panels, but it is also possible to connect PCs by means of the DSI 1. Upon receiving the data requirements of the master, the DSI 1 responds by transmitting the appropriate channel data of the Dupline bus. In so doing it supports the Modbus function codes 3 (Read register) and 16 (Write register). With these functions both binary and analog data can be read and written by the AnaLink method.

### Features

Dupline-Modbus interface for data exchange with visualisation components, configurable communication speed, 25-pin RS-485 interface, red LED for communication display, power supply via RS-485 interface

### Mounting

device interconnectivity, can also be mounted via screen adaptors to touch panels DSC 10, DSC 20 and DSC 30

### Applications

Using the interface is recommended when the DKG interface is wired a long distance away, only the data of the connected bus line should be accessed and more than one visualisation component will be used on one bus line.

### Accessories

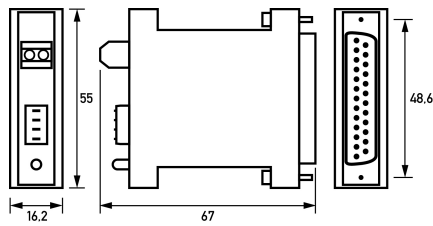
Screen adaptors DSA

### Technical Data

Technical Data	DSI 1
Series	DSI 1
design	Dupline
max. IF Bus system output channel	128
max. IF Bus system input channel	128
current consumption bus	10 µA
Serial IF IF1 Specification	RS 485
Serial IF IF1 Protocols	Modbus I-RTU
Serial IF IF1 Transmission rate	9600 bit/s, 19200 bit/s
Operating voltage (DC)	5 V
Type	Display Bus signal LED (red)
Clamping area	0.4 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
General data description	Strain relief clamp (Bus connection) General data
Operating position	any
Ambient temperature	-20 °C ... 60 °C
Permissible humidity	20 % ... 80 %
Housing type	Adaptor housing

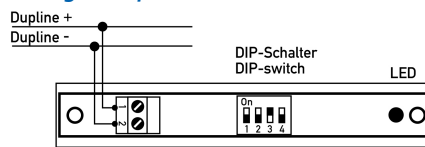
Technical Data	DSI 1
Mounting type	Adaptor plug
Housing material	Polycarbonate (PC)
Protection class	IP20
Width	55 mm
Height	70 mm
Depth	16 mm
Design requirements/Standards	EN 60664
Degree of pollution according to EN 60664	2

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram