Doepke

DATA SHEET
DKG 2
Article No. 09501104

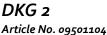## Function

Central control devices process input signals and set output signals depending on their configured function. They also frequently offer interfaces for display. The DKG 1 and DKG 2 channel generators are central units of the Dupline installation system. They provide the following main functions:

- Generating the bus signal for all other components connected to the Dupline bus;
- Supplying power to decentral components;
- Controlling the outputs in accordance with the inputs of the Dupline bus;
- Interface between Dupline bus and Modbus communication, e.g. memory-programmable controls or visualisation components;

The configuration software ProLine, available free-of-charge, enables all parameters for the above-mentioned functions to be set. It can be downloaded without a licence fee from our homepage http://www.doepke.de. The configuration file provided will be permanently stored with ProLine in the channel generator and can also be saved on hard disk. You can also at any time retrieve, and modify, the configuration permanently stored in the DKG. The channel generators support a total of 128 functions (addresses), which can be assigned to a wide range of easy to set.automation functions for buildings and industry. In addition, more complex functions can be set up with the aid of the logic connectives. In terms of hardware, in addition to the Dupline bus connection the DKGs offer a COM port, at which either a PC for configuration with ProLine or a visualisation component using Modbus I-RTU protocol can be connected. Separate LEDs signal the status of power supply, the bus signal and possible error conditions. By means of the LC display date and time as well as communication parameters can be set up.

Features

channel generator for one Dupline bus with 128 channels, predefined objects such as key (switch) function, time switch, clock, motion detector, sensor, central and group commands, roller shutter control, alarm systems (ISA, fire, intrusion, water), free-of-charge ProLine configuration software, logic operations (AND, OR, XOR) for implementing combined automation functions, LED for indicating the operating voltage, bus signal and faults, LC display for configuring communication and date/time, interfaces: 1 x Dupline, 1 x RS-232 for configuration via ProLine or as Modbus I-RTU interface for display components, connection of 2 DKG 1/DKG 2 devices for data exchange possible, power supply to DKG 1: 24 V DC, DKG 2: 115/230 V AC

Mounting

quick fastening to mounting rail, any installation position

Applications

The channel generators are used in conjunction with other components of the Dupline bus system for the automation of buildings and processes, such asin private and commercially used buildings for controlling lighting, roller shutters, room temperature and for triggering alarms if a break-in occurs or a fire breaks out, for example;, in schools for saving energy through automated lighting and temperature control;, in shipyards for fire alarm during assembly;, in industrial facilities for reporting faults and controlling processes.

Notes

Increasing the number channels by means of interconnecting the bus wires of two or more DKGs is not permitted. Dupline bus leads of different channel generators must not be interlinked with each other.

Accessories

DKK 1, DKK 2, DKK 3, DKA 1

Technical Data	DKG 2
Series	DKG 2
design	Dupline
current consumption bus	max. 100000 µA
Serial IF IF1 Specification	RS 232-C
max. Serial IF IF1 Cable length	3 m

Technical Data	DKG 2
Accuracy clock time	1 min
Buffer time real-time clock	120 h
Operating voltage (AC)	115 V, 230 V
Current consumption (AC)	0.03 A
Operating frequency	50 Hz, 60 Hz
Description	Display Datum, Time, Betriebssoftware, Operating mode error
Type	LCD
Description	Display Supply voltage
Type	LED (green)
Description	Display Bus signal
Type	LED (yellow)
Description	Watchdog
Specification	Semiconductor
Rated voltage (DC)	max. 35 V
Description	Screw-type terminal (Bus connection, Watchdog)
Clamping area	0.4 mm² ... 2.5 mm²
Description	General data
Ambient temperature	-10 °C ... 45 °C
Permissible humidity	max. 85 %
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Polycarbonate (PC)
Width	144 mm
Height	78 mm
Depth	65 mm
Width (modules)	8
Design requirements/Standards	EN 60669, EN 55022, EN 61000-6-3, EN 55024, EN 61000-6-1