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DATA SHEET

DSM 4M

Relay modules for capacitive loads and manual operation

Article number 09501174



Function

Relay and blind control devices facilitate the switching of electrical consumers separately from the system potential. Use is very flexible as a result and involves awnings and gate actuators in addition to luminaires and other single-phase consumers. To switch multiphase consumers or consumers with high loads, downstream contactors, for example, are recommended. The DSM 4M is a component of the Dupline installation system and permits the switching of four independent loads, which may be distributed on different phases. Each load can have a current consumption of up to 16 A. The all-or-nothing relays are suitable for high loads and are designed with retentivity, thus ensuring the status's being stored should a power failure occur. A faulty Dupline signal may be programmed to result either in compulsory connection or disconnection if the power supply is in order. Each relay is also equipped with an operating lever which not only indicates the actual switching position, but also provides for manual operation in the event of power failure or a bus fault. The current switching position of the relay is transmitted back via Dupline channels, provided power supply and bus signal are functional. The green LED located in the coding and test socket on the front of the device indicates that the Dupline bus signal is functioning properly.

Features

4 capacitive switching relays with high load capacity 230 V AC/16 A (140 µF), slider for manual operation even without control voltage, feedback on slider position can be configured via the Dupline bus, easy addressing using DHK 1 encoder, switching relay status in the event of a bus failure can be configured, green LED for indicating an existing bus signal

Mounting

quick fastening to mounting rail, any installation position

Applications

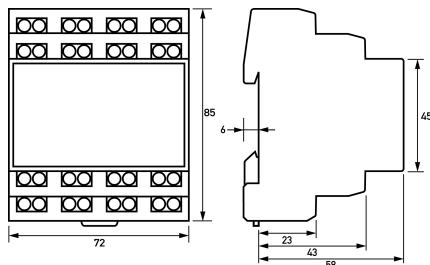
The DSM 4M is used in conjunction with the Dupline bus system for switching electrical loads, e. g. lamps, pumps, solenoid valves. In commercially used or public buildings the possibility of manual operation offers particular advantages.

Technical Data

Technical Data	DSM 4M
Series	DSM 4M
design	Dupline
max. IF Bus system output channel	4
max. IF Bus system input channel	4
current consumption bus	150 µA
Operating voltage (DC)	24 V (21.5 V ... 26.5 V)
max. Ripple voltage	0.1 V
Current consumption (DC)	0.03 A ... 0.13 A
Type	Display Bus signal LED (green)
Type	Display Switching position Operating lever (red, green)
Specification	Relay
Number	2
Rated voltage (AC)	12 V ... 250 V
Rated voltage (DC)	12 V ... 30 V

Technical Data	DSM 4M
max. Output O1 Load capacitive	140 µF
max. Output O1 rated power glow lamps	2500 VA
max. Output O1 rated power HV halogen lamps	2500 VA
max. Output O1 Rated power low-voltage halogen lamp	500 VA
max. Output O1 Rated power fluorescent lamp compensated	1300 VA
max. Output O1 Rated power fluorescent lamp not compensated	2500 VA
max. Output O1 rated power fluorescent lamps duo-switching	2500 VA
Strain relief clamp (Load circuit)	
Clamping area	0.4 mm ² ... 2.5 mm ²
Tightening torque	max. 0.6 Nm
(Bus connection)	
Clamping area	0.4 mm ² ... 2.5 mm ²
Tightening torque	max. 0.6 Nm
General data description	General data
Operating position	any
Electrical endurance	min. 100000 cycles
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 60669-1, EN 60669-2, EN 50090-2-2, EN 50428, EN 61000-6-1, EN 61000-6-3

Dimensions



Dimensional drawing Group view