



D1-20

Digital module with 8 changeover relay outputs

The D1-20 module provides 8 digital outputs with changeover relay and status signalling led; the relay status is controlled through the serial communication link; an internal watch-dog circuit ensures a non-stop operation and a special setup allows disabling of all output relay in case of communication loss; interface type (RS422 or RS485), communication protocol (Modbus ASCII or RTU) and address (from 1 to 31) can be set through microswitches; the module is suited for mounting on a DIN rail.

GENERAL SPECIFICATIONS

Power supply	From 18 to 36 Vdc, 80 mA @ 24 Vdc
Power supply protections	Against polarity inversion
Operating environment	Temperature: from 0 to 70 °C, relative humidity: from 25 to 85 % (non condensing)
Operating atmosphere	Without corrosive gas
Storage temperature	From -20 to 80 °C (without ice)
Electromagnetic compatibility <input type="checkbox"/>	<ul style="list-style-type: none"> • Radio frequency emissions: EN55011 Group 1 Class A • Conducted emissions: EN55011 Group 1 Class A • Radio frequency immunity: ENV50140 10 V/m AM from 80 to 1000 MHz • Conducted immunity: ENV50141 10V/m AM from 0.15 to 80 MHz
IP grade	Connectors: IP20, enclosure: IP20
Signalling leds	Power on, self-test, outputs status, serial tx, serial rx
Mounting mode	DIN EN50022 rail
Dimensions	150L x 110H x 60P mm
Weight	350 g
Ordering code	D1-20

RELAY OUTPUTS SPECIFICATIONS

Relays type	8 relays 1 changeover contact
Maximum switching voltage	60 Vdc/125 Vac
Maximum continuous current	1 A
Maximum switching current	2 A
Maximum power rating	30 W/60 VA
Contact material	Silver/palladium, gold-plated

COMMUNICATION INTERFACE SPECIFICATIONS

Communication interface	EIA RS485 or RS422 (selectable by jumper)
Communication speed	9600 or 19200 baud (selectable by dip-switches)
Communication protocol	Modbus ASCII or Modbus RTU (selectable by dip-switches)
Device address	From 1 to 31 (selectable by dip-switches)
485/422 lines protections	Against surge

FUNCTIONAL SPECIFICATIONS

Watch-dog	Hardware
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