

WATCH-DOG-01

General

The watchdog module monitors the subnet. It can be used to switch to emergency operation if an error is detected.

The module detects both short circuits and severances in the bus cable as well as any master modules which have failed. This module can be used, for example, to switch to redundant bus segments in emergencies, e.g. to another master module, or to control the relevant emergency relay in sub-distribu-



tions. The time for activating the output in the event of a fault can be set using the rotary switch.

Outputs

- 1 relay output as a two-way contact 230V/16A (Caution: starting currents 16A AC1!) The relay is activated when the communication with the master module and the operating voltage are functioning properly.

Function displays

- 1 red LED indicates the operating voltage
- 1 flashing yellow LED indicates communication with the master via the subnet
- 1 green LED indicates the output status (LED lights up when relay is activated)

Tripping times

- The dropout time of the relay output after a fault has been detected can be set using the rotary switch, which is located under the casing cover (the programming time of the master modules must be taken into account here as the BUS is paused during the procedure).

Dropout	time setting
0	2s
1	10s
2	20s
3	30s
4	40s
5	50s
6	60s
7	70s
8	80s
9	90s

Connections

- 1 connection for the subnet (BUS A and B, RS-485)
- 1 connection for the operating voltage
- 1 P-COM plug
- 1 changeover contact

Design

- Light grey plastic casing, can be clicked onto 35 mm DIN rail mounting 2 separating units

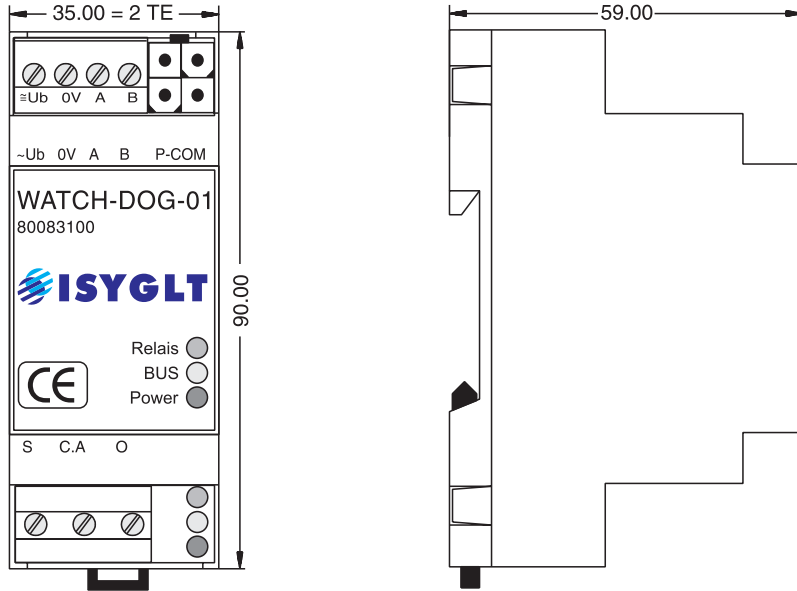
Technical data

Type	Watch-Dog-01
Art. Nr.	80083100
Operating voltage	12V to 35V DC or 12V to 27V AC
Power consumption	75mA
Outputs	1 relay output 230V / 16A (no high starting currents)
Relay output	terminals 2.5mm ²
Subnet (RS-485)	Max. 5.6V limited by diodes
Dimensions	BxHxT 36x90x59mm (2TE)
Weight	85g
Connection	Screw terminals Bus 2,5mm ² / PCOM connector
Operating voltage	-10...+50°C
Storage temperature	-25...+70°C
Humidity	0...85% r.F. non condensing
Protection class	IP30
ESD immunity	Category 3 according to IEC-1000-4-2
EMC immunity	Use in typical industrial enviroment. Category 3 lt. IEC-1000-4-4 (Test was carried out within a whole system)
CE mark	yes

Terminal assignment

Terminals	Designation
≅ Ub	Operating voltage
0V	Operating voltage
A	Subnet (BUS A, RS-485)
B	Subnet (BUS B, RS-485)
C.A	Common relay output
S	Closer relay output
O	Opener relay output

View



Wiring diagram

