

DUO I/O-Module DUO Switching Module

DUO I/O-Module BUS-2/BUS-1

- 4 detector groups with clear function
- 2 semiconductor outputs

DUO Switching Module 230 V AC / 8 A

- 2 Relais outputs

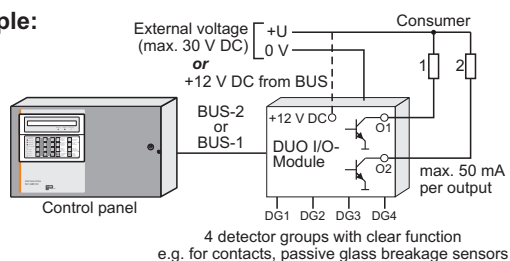
DUO I/O-Module

The DUO I/O-Module has the same function as detector groups and control modules. It can be operated at either BUS-2 or BUS-1.

Detectors equipped with conventional connection technology can be integrated in the BUS system via the 4 detector group inputs with clear function (e.g. contacts and passive glass breakage sensors).

The module is also equipped with 2 semiconductor outputs for switching and control functions (max. 30 V DC / 50 mA per output). For external consumers, the voltage of the module or an external voltage source can be used as operating voltage. Higher switching capacities (up to 250 V AC / 8 A) are possible in conjunction with the DUO Switching Module (see example on the right).

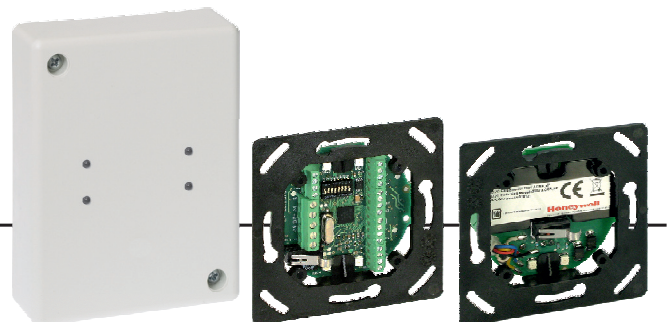
Example:



Features

DUO I/O-Module

- Operation at BUS-2:
Operation as 5-Input Module (compatibility mode)
Operation as DUO I/O-Module.
- Operation at BUS-1:
Operation either as zone interface, switching module or universal connection module.
- 4 Detector group inputs with clear function.
- 4 LEDs as detector group status indication or function freely programmable (depending on the operating mode). Visible from the outside or if required with individual cover.
- 2 semiconductor outputs, open collector, LOW active. Both outputs are activated simultaneously to LED1 and LED2 or function freely programmable (depending on the operating mode).
- Combined operation with the DUO Switching Module for high switching capacities.
- Simple installation of the f.m. module in flush-mounted or cavity wall boxes \varnothing 60 mm (DIN, Austria and Switzerland).
- VdS-approval Class C (IDS).



DUO I/O-Module
BUS-2/BUS-1, s.m.

DUO I/O-Module
BUS-2/BUS-1, f.m.

DUO Switching Mod.
230 V AC / 8 A, f.m.

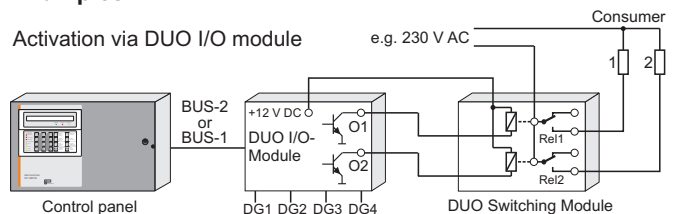
DUO Switching Module

Both relays can be activated via the outputs of the DUO I/O-Module or alternatively with another control voltage ("stand alone", see below).

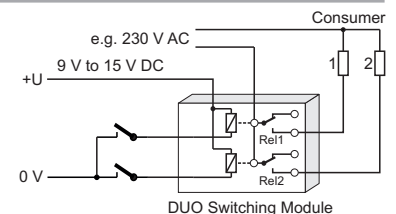
Voltage range: 9 V to 15 V DC.

In combination with the DUO I/O-Module f.m., both modules are installed in two flush-mounted boxes that are positioned directly next to one another. A double cover frame is available as an accessory for this type of application.

Examples:



Principle of activation "stand alone"



DUO Switching Module

- Activation of both relays via the DUO I/O-Module or "stand alone"
- 2 relay outputs each with one potential-free changeover contact
- Wide switching capacity range:
5 V DC / 10 mA to 250 V AC / 8 A
- 2 LEDs for status indication
A LED (green) lights up as long as the corresponding relay is actuated.
Visible from the outside or if required with individual cover.
- Simple installation in flush-mounted or cavity wall boxes \varnothing 60 mm (DIN, Austria and Switzerland).
- VdS-approval Class C (IDS).

Technical Data

DUO I/O-Module

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at U _b =12 V DC:	
- Detector groups open	≤ 5.0 mA
- Detector groups terminated with 12k Ω	≤ 0.6 mA in addition per detector group
- LED indicator	≤ 1.3 mA in addition per LED
4 detector group inputs with clear function	
- Voltage	8 V DC, stabilized, short-circuit protected
- Monitoring range	12k Ω ± 20% (depending on the operating mode the values can be changed)
2 semiconductor outputs	"open collector", LOW active, max. 30 V DC, max. 50 mA per output

DOU Switching Module

Rated operating voltage (relay)	12 V DC
Operating voltage range (relay)	9 V to 15 V DC
Current consumption at U _b =12 V DC	18.3 mA per relay
Relay contacts:	
- Type of contact	Changeover contact, potential free
- Switching capacity	max. 8 A at 250 V AC (2000 VA) / 5 A at 30 V DC (150 W) min. 5 V DC / 10 mA

General data

Protection class as per DIN 40 050	IP 40
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions:	
- Module s.m. (W x H x D)	85 x 109 x 30 mm
- Modules f.m.:	
- Mounting dimension (\varnothing x D)	58 x 26 mm
- Mounting frame (W x H x D)	70 x 70 x 1 mm
- Cover frame (W x H x D)	80 x 80 x 5 mm
- 2-module cover frame (W x H x D)	151 x 80 x 5 mm
Colour	Traffic white (similar to RAL 9016)

Ordering informations



Item no.	Description
010130	DUO I/O-Module BUS-2/BUS-1, s.m. VdS approval G109010
010120.17	DUO I/O-Module BUS-2/BUS-1, f.m. incl. Cover frame and Decorating foil VdS approval G109010
010121.17	DUO Switching Module 230V AC / 8A, f.m. incl. Cover frame and Decorating foil VdS approval G109011

Accessories

Item no.	Description
010123.17	2-module cover frame for DUO-/Relay module (PU = 2 pce.)
010124.17	Decorating foil (PU = 4 pce. with 4 holes, 1 pce. with 2 holes)

Honeywell Security Group

Novar GmbH
Johannes-Mauthe-Str. 14 · 72458 Albstadt
Tel. +49(0) 74 31/801-0 · Fax 801-12 20
www.honeywell.com/security/de
info.security.de@honeywell.com

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