

Four-channel switching actuator

Order no.: 1007 00

Four-channel switching actuator C load

Order no.: 1027 00

Six-channel switching actuator

Order no.: 1008 00

Eight-channel switching actuator

Order no.: 1009 00

Eight-channel switching actuator C load

Order no.: 1028 00

System information

This unit is a product of the Instabus-EIB-System and corresponds to the EIBA Guidelines. Detailed technical knowledge acquired in Instabus training courses is a prerequisite for the understanding of the system. The functions of the device are software-dependent.

Detailed information on the software and the functions implemented and the software itself are available from the manufacturer's product data bank.

Planning, installation and commissioning of the device are effected with the help of EIBA-certified software.

For the product database and technical descriptions please refer to the Gira Datenpool CD, order no. 1992 10, or to the internet at www.gira.de offering up-to-date information.

Function

The 4-channel, 4-channel C-load, 6-channel, 8-channel and 8-channel C-load switching actuators with potential-free contacts can be used for switching electrical consumers via the Instabus EIB.

The switching commands come from touch sensors or from binary inputs of the Instabus EIB system.

The 4 channel, 4 channel C-load, 8-channel C-load and 8-channel switching actuators (outputs A1 - A4) are equipped with switching status indicators which are used at the same time for manual operation of the relays independent of the Instabus EIB.

The switching contacts of C-load switching actuators are designed especially for capacitive loads and the corresponding high inrush currents (see technical specifications).

The devices do not require an additional power supply.



Safety warnings

Attention: Electrical equipment must be installed and fitted only by qualified electricians and in observance of the applicable accident prevention regulations.

To prevent electric shocks, disconnect the power supply before working on the device (by cutting out the circuit breaker).

Any non-observance of the fitting instructions may cause fire or other hazards.

On delivery, the switching status of the outputs is undefined.

Instructions

- The outputs A1 - A4 and A5 - A8 of the 8-channel actuator have different maximum switching capacities.
- In the event of control from a central telegram, the relay outputs of an actuator switch with a slight delay.
- Do not connect three-phase motor to the actuators.
- Manual operation of the relays is independent of bus conditions and not affecting the switching objects. For this reason, a software-disabled output can nevertheless be switched by hand.
- The use of 230 V and SELV at different outputs of an actuator is not permitted.

Connection

4-channel switching actuator (fig. A) 4-channel C-load switching actuator (fig. B)

Connection to the bus is by means of the bus connector ①.

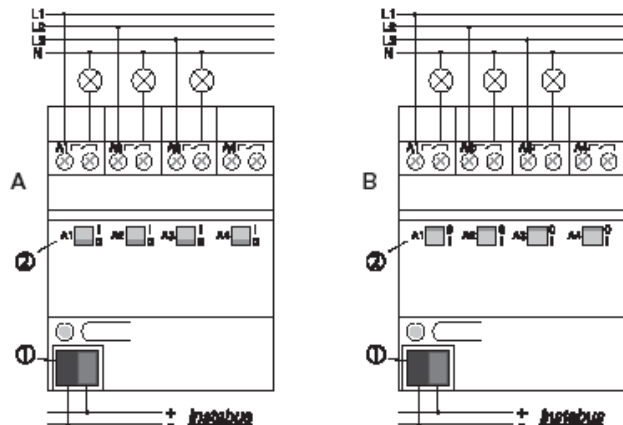
The switching statuses of the relays are indicated by the switch position indicators ②. They are used at the same time for manual operation of the relays independent of the EIB.

Important:

Observe that switch status indicators ② in the C-load actuator (shown on the right) are inverted for constructional reasons.

The actuators are connected as shown in the schematic.

The actuator outputs can be connected to different phase conductors.



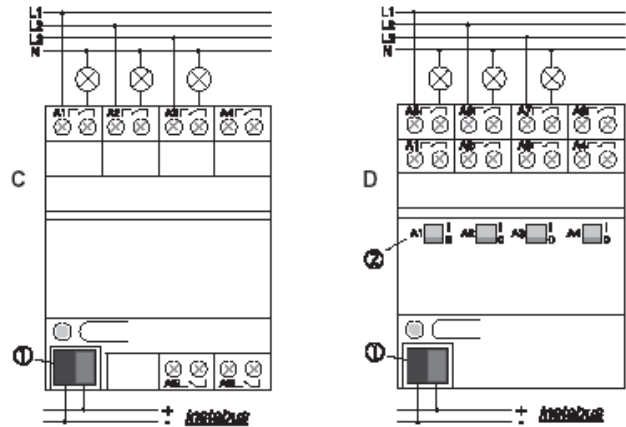
6-channel actuator (fig. C) 8-channel actuator (fig. D)

Bus connection is by means of the bus connector ①.

In the 8-channel actuator, the switching statuses of the relays of outputs A1 - A4 are indicated by the switch position indicators ②. They are used at the same time for manual operation of the relay outputs A1 - A4 of the 8-channel actuator independent of the EIB.

The actuators are connected as shown in the schematic.

The actuator outputs can be connected to different phase conductors.



8-channel C-load switching actuator (fig. E)

Bus connection is by means of the bus connector ①.

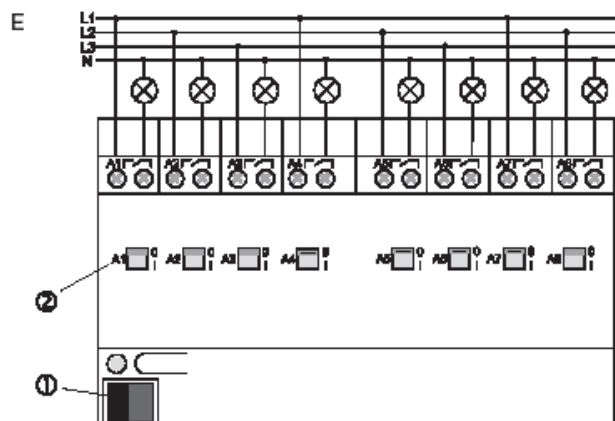
In the 8-channel actuator, the switching statuses of the relays are indicated by the switch position indicators ②. These are used at the same time for manual operation of the relays independent of the EIB.

Important:

Observe that the switching status indicators in the C-load actuator are inverted for constructional reasons.

The actuators are connected as shown in the schematic.

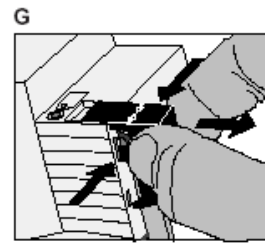
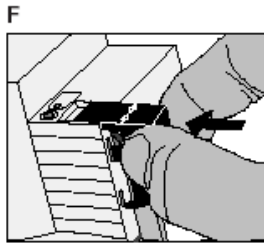
The actuator outputs can be connected to different phase conductors.



Cap

Slide the cap over the bus terminal with the bus line at the bottom (fig. F) until it is heard to engage.

Remove the cap by pressing against the sides and by pulling it out at the same time (fig. E).



Technical characteristics

General

Instabus EIB supply voltage: 21 - 32 V DC

Instabus EIB power rating: typically 150 mW

Instabus EIB Connection: Instabus connector

Mains connection: screw terminals
 1.5 – 4 mm² solid wire or
 2 x 1.5 – 2.5 mm² solid wire
 0.75 – 4 mm² stranded
 without wire end ferrule
 or
 0.5 – 2.5 mm² stranded
 with wire end ferrule

Output contact type: potential-free n.o. contacts (μ-Contact)

Ambient temperature: -5 °C ... +45 °C

Storage temperature: -25 °C ... +70 °C

Mounting width
 only 8-channel C-load
 switching actuator: 144 mm (4 modules)
 all other actuator: 72 mm (4 modules)

Switching actuator outputs 4-channel and 8-channel (outputs A1 – A4)

Switched voltage: 230 V AC, 400 V AC
 Switched current
 at 230 V AC: 16 A / AC1; 10 A / AC3
 Switched current
 at 400 V AC: 10 A / AC1; 6 A / AC3

Switching capacity
 incandescent lamps: 2500 W
 fluorescent lamps
 non-compensated: 2500 W
 parallel compens.: 1300 W / 140 μF
 lead-lag circuit: 2 x 2500 W
 HV halogen lamps: 2500 W
 LV halogen lamps: 500 VA
 Tronic transformers: 1300 VA

Switching actuator outputs 6-channel and 8-channel (outputs A5 - A8)

Switched voltage: 230 V AC
 Switched current at 230 V AC: 6 A / AC1

Switching capacity
 incandescent lamps: 1000 W
 fluorescent lamps
 non-compensated, cos φ = 0.5: 500 W
 parallel compens., cos φ = 1: 2 x 58 W/14 μF
 3 x 36 W/14 μF
 6 x 18 W/14 μF
 lead-lag circuit, cos φ = 1: 1000 W
 Siemens electronic ballast
 58 W fluorescent lamp: 10 units
 36 W fluorescent lamp: 15 units
 18 W fluorescent lamp: 15 units

**4-channel C-load and
8-channel C-load switching actuator outputs**

Switched voltage: 230 V AC, 400 V AC
Switched current
at 230 V AC: 16 A / AC1; 10 A / AC3
Switched current
at 400 V AC: 10 A / AC1; 6 A / AC3

Switching capacity

incandescent,

HV halogen lamps: 3680 W

LV halogen lamps: 2000 VA

Tronic transformers: 2500 W

fluorescent lamps

non-compensated,

cos φ = 0.5: 3680 W

parallel compens.,

cos φ = 1: 2500 W / 200 μ F

lead-lag circuit,

cos φ = 1: 2 x 3680 W

Mercury /

sodium vapour lamp

non-compensated;

parallel compensation: 3680 W / 200 μ F**Acceptance of guarantee**

We accept the guarantee in accordance with the corresponding legal provisions.

Please return the unit postage paid to our central service department giving a brief description of the fault:

Gira
Giersiepen GmbH & Co. KG
Service Center
Dahlienstrasse 12
D-42477 Radevormwald

Gira
Giersiepen GmbH & Co. KG
Postfach 1220
D-42461 Radevormwald

Telefon: +49 / 21 95 / 602 - 0
Telefax: +49 / 21 95 / 602 - 339
Internet: www.gira.de