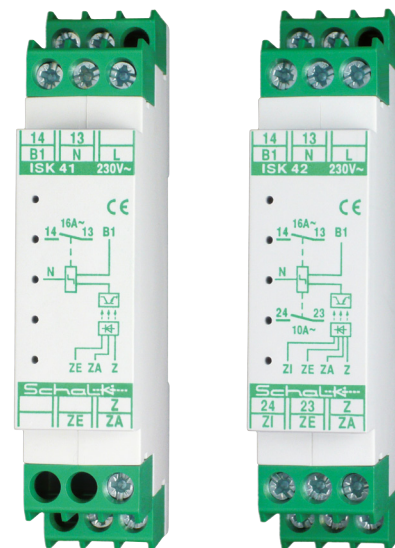


Central pulse switch ISK 41 / ISK 42

Impulse switch with galvanically isolated (central) control inputs and additional signalling contact (ISK 42)

Special features

- ▶ Galvanic isolation of the central control inputs through optocouplers
- ▶ Wide central control voltage range
- ▶ Double-contact version for signalling amenities



General information

In electrical installations with several sub-distribution boards and residual current circuit breakers, the ISK 41, ISK 42 switchgear developed for this purpose can be used to create an economical central ON-OFF control system. The central control inputs are galvanically isolated from the inputs and outputs on the supply side by optocouplers. Up to 2 potential-free NO contacts are available on the output side.

In contrast to conventional pulse switches with central control, ISK 41 and ISK 42 can thus be connected between different networks, RCDs or potentials without decoupling relays.

Applications

Central lighting activation by means of burglar alarm systems with presence detectors, central lighting on/off switching of building sections by means of central panel, time switch or twilight switch.

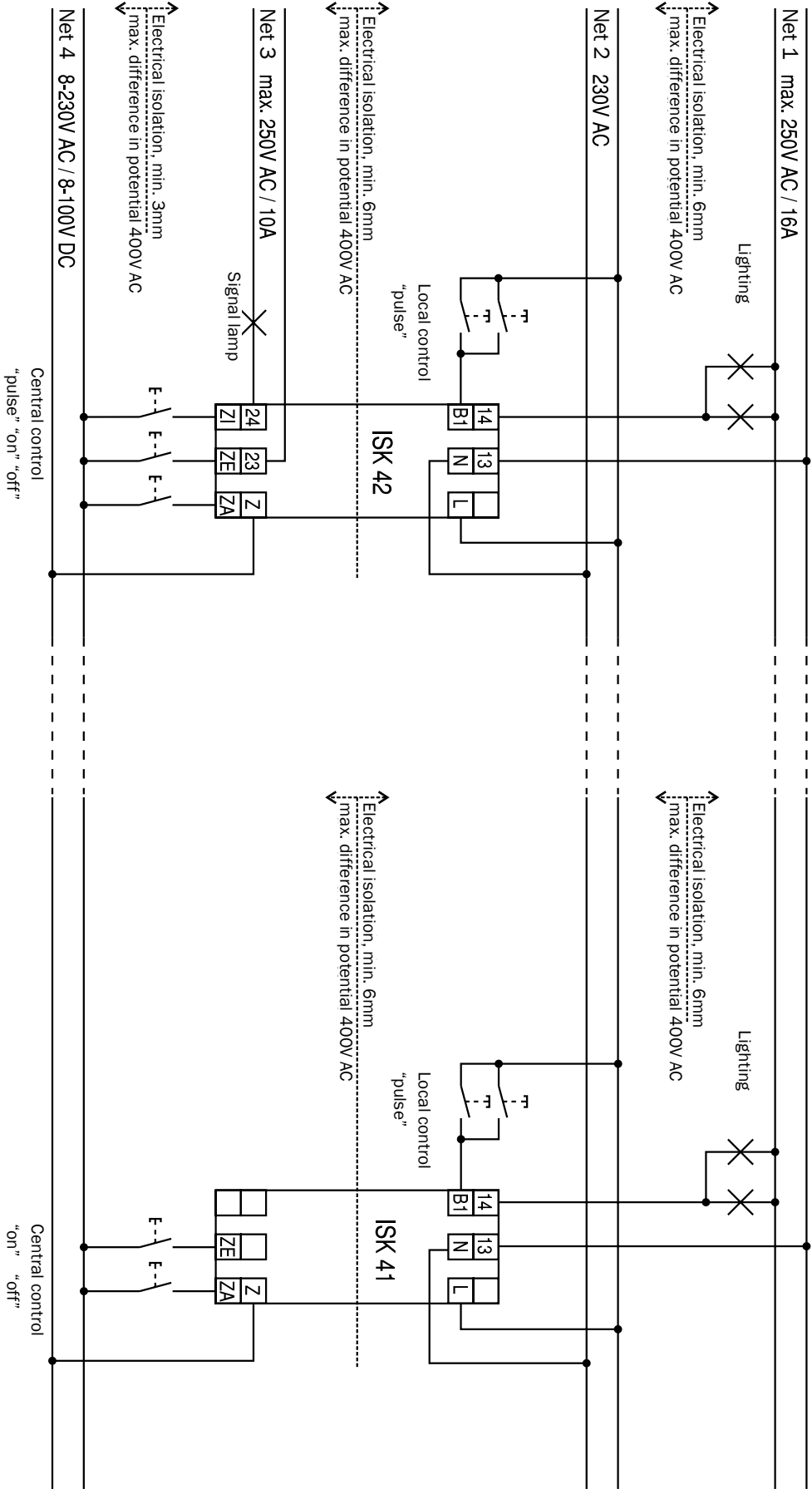
Operation

The respective switching state is changed by a short signal on terminal B1.

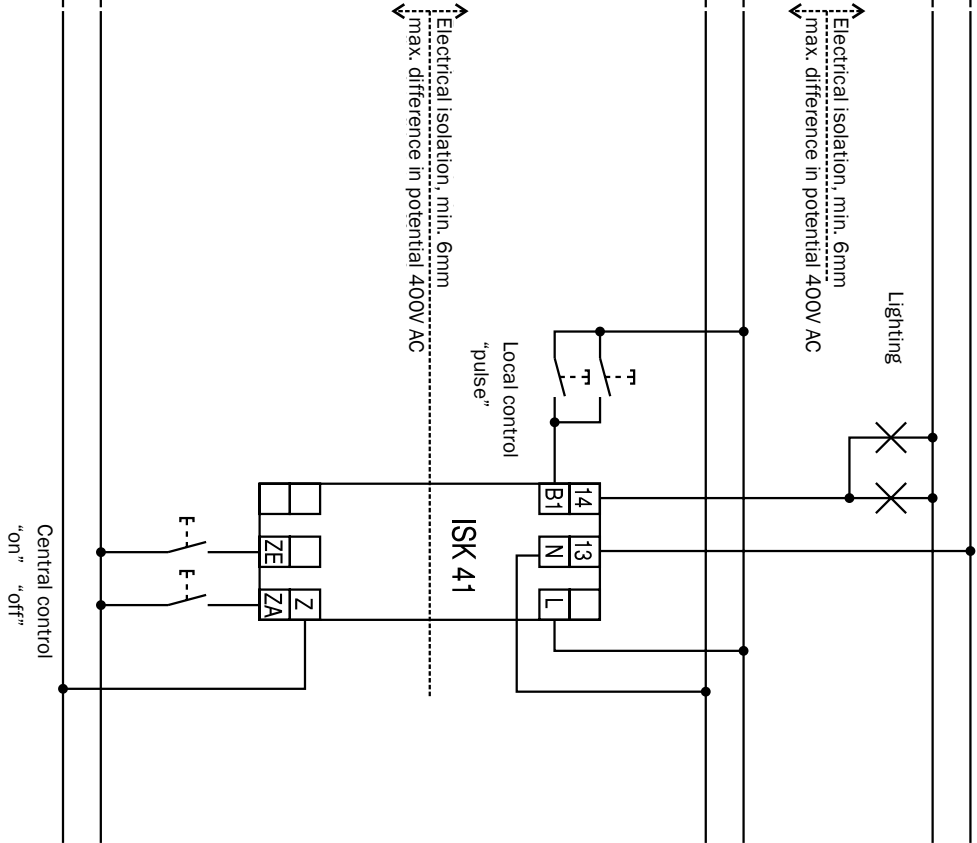
The centrally defined ON and OFF switching of any number of central pulse switches is possible via the central control connections ZE and ZA, irrespective of the respective switching position. ZE has priority over B1 and ZA has priority over B1 and ZE. This makes it possible to maintain a defined switching state by continuous trigger of ZE or ZA.

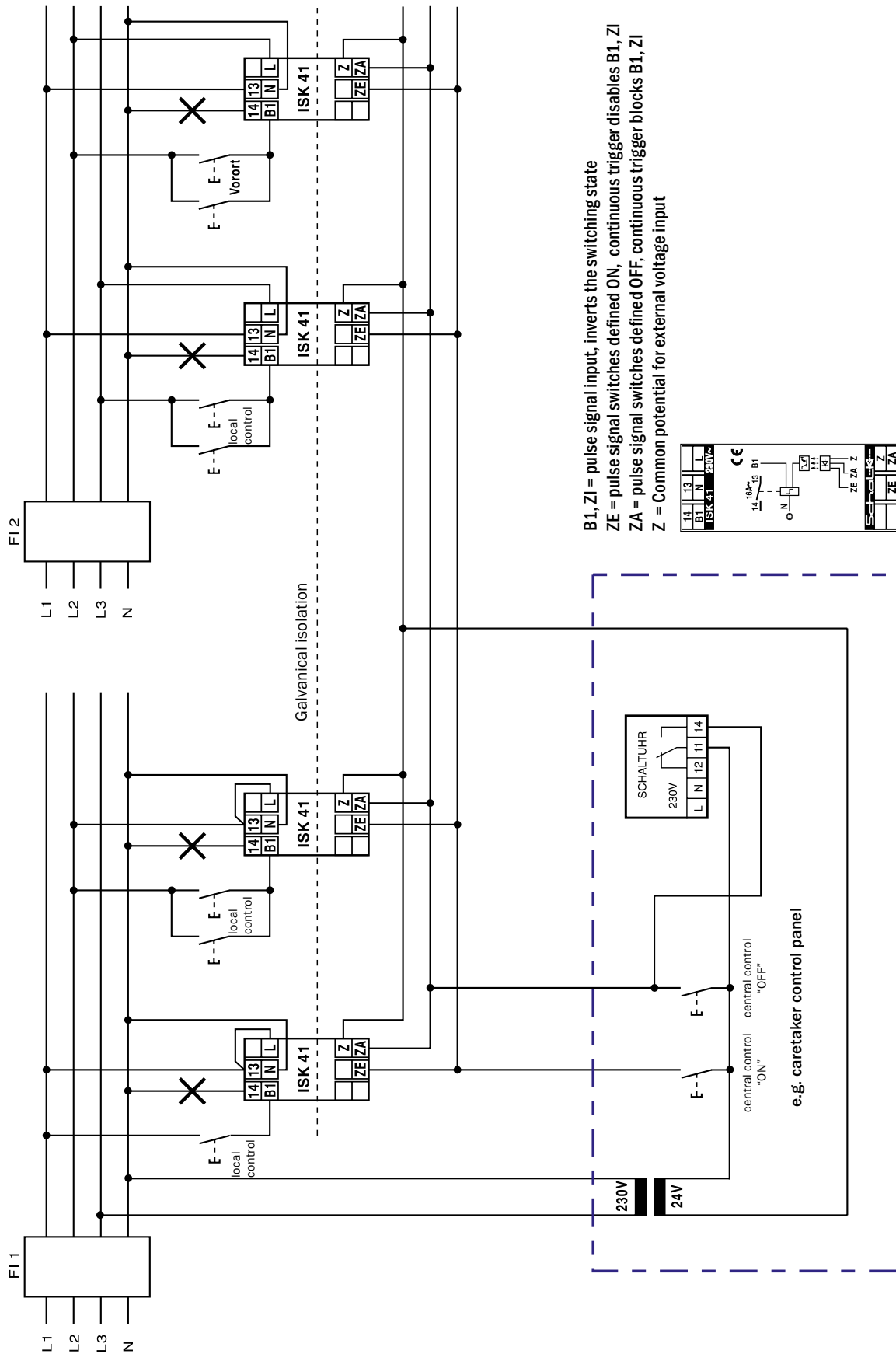
The ISK 42 also has a central pulse input and a potential-free NO contact for signalling devices.

Connection example ISK 42

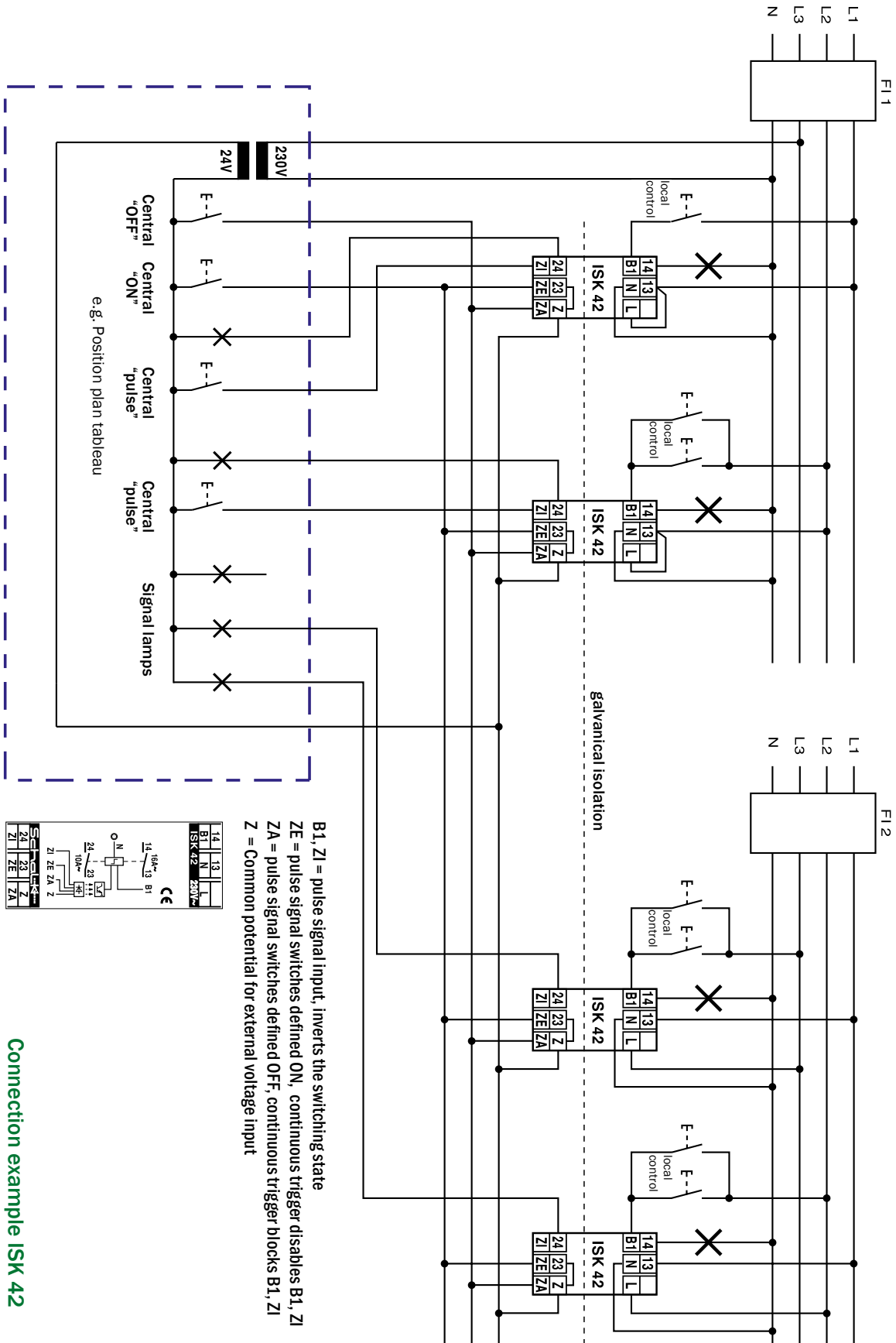


Connection example ISK 41





Connection example ISK 41



Connection example ISK 42

Technical data

Operating voltage:	230 V 50/60 Hz 10 %
Power consumption:	approx. 0.6 W
Control voltage for central inputs	8 V - 230 V UC
max. line capacitance	470 nF (B1) 25 nF (ZA, ZE, ZI at 230 V AC)
Relay contact (13, 14)	1 NO potential-free
Switching voltage max.	250 V AC
Continuous current max.	16 A
Contact rating	see data sheet: "Relay contacts"
Signal contact (23,24)	1 NO potential-free (only ISK 42)
Switching voltage max.	250 V AC
Continuous current max.	10 A
Contact rating	see "Relay contacts" data sheet
Ambient temperature	-10°C to +45°C
Connection terminals	Socket terminals with captive screws M3.5
Clamping range	0.5 mm ² - 4.0 mm ²
Strip length	6.0 mm - 6.5 mm
Screwing torque	0.80 Nm
Mounting orientation	arbitrarily
Mounting	Click-mount on standard 35-mm rail (EN 60715)
External dimensions	18 x 88 (45) x 58 mm ³
Installation depth	55 mm
Weight	approx. 90 g
RAL colour	grey 7035

Order data

Item no.	EAN	Type	Designation
ISK419	4 046929 601030	ISK 41	Central pulse switch with 2 electrically isolated inputs ZE, ZA
ISK429	4 046929 601047	ISK 42	Central pulse switch with ZE, ZA, ZI and 2 relay contacts

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