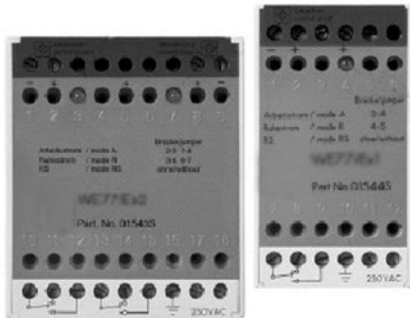


Isolated switch amplifiers Type series PG25 . ./PG26 . .



Features

- Compact housing for snap-on rail mounting
- Suitable for touch and inductive contacts
- One or two channel
- 3 operating modes
- Supply: 230 V AC
- Explosion protection: II (1) GD [Ex ia] IIC

Application

The transformer isolated barrier transfers digital signals into hazardous areas. Sensors per DIN EN 60947-5-6 (NAMUR) or mechanical contacts may be used as transmitters. The control circuit is monitored for lead breakage (LB).

Techn. Data

Case

compact housing
protection type: IP 20
material: noryl SE 0
(self-extinguishing)
width: 40/60 mm
(case form A/B)
flame protection: UL 94 VO

Case form A

single channel

Case form B

two independent channels in one unit

Mounting

snap-on rail mounting on 35 mm top-hat rail or surface mounting.

Connections

screw connector with self-opening apparatus terminal for max. 1 x 2.5 mm²

Ambient temperature

-25...+60 °C

Weight

Approx. 390 g / 410 g (case form A/B)

Auxiliary power supply

198...253 V AC
45...65 Hz, approx. 3.5 mA

Control circuit

open-circuit voltage: approx. 8 V DC
short circuit current: approx. 8 mA

Switching point

in the range 1.2 mA - 2.1 mA

Hysteresis

approx. 0.2 mA

Switching-on/off delay

approx. 10 ms / approx. 20 ms

Max. switching frequency

10 Hz

Output

relay output with one changeover contact per channel

Operating modes

"Quiescent current" optional (i.e. relay is only switched on when sensor is not activated, measured value normal) or "load current" (i.e. relay is only switched on when initiator is activated, measured value has exceeded limit value)
can be altered with jumper

Line control

operating mode "Quiescent current with line control" is selected, if the jumper is removed. Should the residual current in the control line fall below 0.1 mA, the relay switches off. If mechanical contacts are used, a resistance of approx. 10 kOhm must be switched in parallel to the contact on site.

Relay date

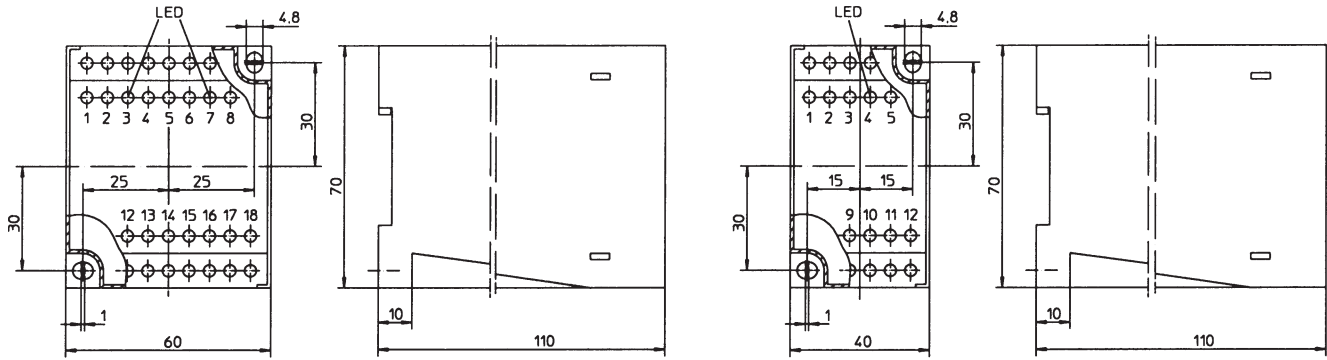
max. 250 V AC / 4 A / 500 VA
max. 220 V DC / 0.1 A
or 60 V DC / 0.6 A
or 24 V DC / 4 A

Ex-protection

Type Examination Certificate PTB 02
ATEX 2065
type of protection  II(1) GD [Ex ia] IIC

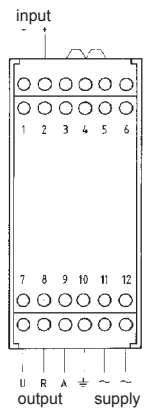
further models upon request

Connection diagram

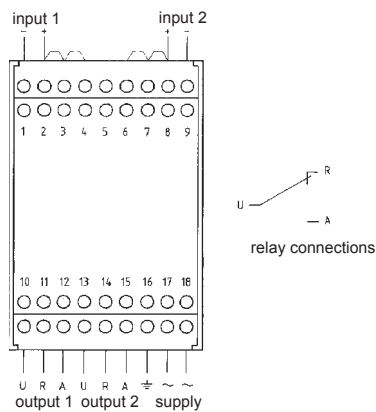


Dimensions

Case form A, single unit



Case form B, double unit



| operating mode | jumper between terminals |
|-------------------------------------|--------------------------|
| load current | 3 and 4 |
| quiescent current | 4 and 5 |
| quiescent current with line control | none |

| operating mode | jumper between terminals | jumper between terminals |
|-------------------------------------|--------------------------|--------------------------|
| load current | 2 and 3 | 7 and 8 |
| quiescent current | 3 and 4 | 6 and 7 |
| quiescent current with line control | none | none |

Mounting and operating instructions

Electrical equipment in hazardous areas should only be installed and commissioned by competent personnel. Modifications to devices and connections destroy the ex-proofing and the guarantee. The complete cable run, both inside and outside the hazardous areas in intrinsically safe circuits, should be equipotentially bonded. The limit values detailed in the EC-Type Examination Certificate are to be observed.

Order Details

- please give additional specifications for models not listed -

| Isolated switch amplifiers | | |
|--|----------|------------------|
| single unit (case form A) with ex-protection | | PG2521 |
| double unit (case form B) with ex-protection | | PG2631 |
| supply | 230 V AC | A1 |
| Order code (example): | | PG2521 A1 |