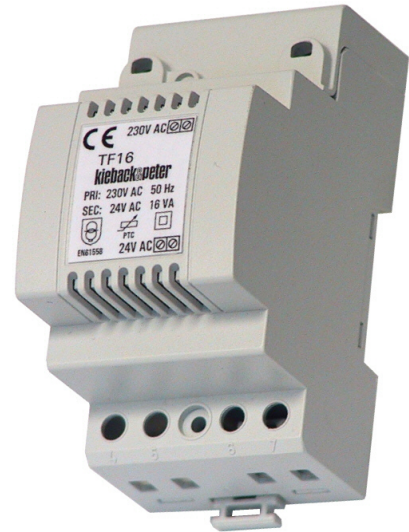


## TF16 Safety Isolating Transformers

### Application

The TF16 safety isolating transformer for mounting rail or wall mounting is used as an AC 24 V power supply in digital and analog control systems.



Content	Page
Important Information Regarding Product Safety .....	2
Item .....	3
Technical Data .....	3
Dimensions .....	3
Connection .....	4
Mounting .....	4
Installation .....	4
Cover for wall mounting .....	4

Änderungen vorbehalten - Contents subject to change - Sous réserve de modifications - Reservado el derecho a modificación - Wijzigingen voorbehouden - Con riserva di modifiche - Innehåll som skall ändras - Zmeny vyhradené - Změny vyhrázeny - Zmiany zastrzeżone - Возможны изменения - A változtatások jogát fenntartjuk - 保留未经通知而改动的权力

**Important Information Regarding Product Safety****Safety Instructions**

This data sheet contains information on installing and commissioning the product "TF16". Each person who carries out work on this product must have read and understood this data sheet. If you have any questions that are not resolved by this data sheet, you can obtain further information from the supplier or manufacturer.

If the product is not used in accordance with this data sheet, the protection provided will be impaired.

Applicable regulations must be observed when installing and using the device. Within the EU, these include regulations regarding occupational safety and accident prevention as well as those from the VDE (Association for Electrical, Electronic & Information Technologies). If the device is used in other countries, it is the responsibility of the system installer or operator to comply with local regulations.

Mounting, installation and commissioning work on the devices may only be carried out by qualified technicians. Qualified technicians are persons who are familiar with the described product and who can assess given tasks and recognize possible dangers due to technical training, knowledge and experience as well as knowledge of the appropriate regulations.

**Legend****WARNING**

Indicates a hazard of medium risk which can result in death or severe bodily injury if it is not avoided.

**CAUTION**

Indicates a hazard of low risk which can result in minor or medium bodily injury if it is not avoided.

**CAUTION**

Indicates a hazard of medium risk which can result in material damage or malfunctions if it is not avoided.

**NOTE**

Indicates additional information that can simplify the work with the product for you.

**Notes on Disposal**

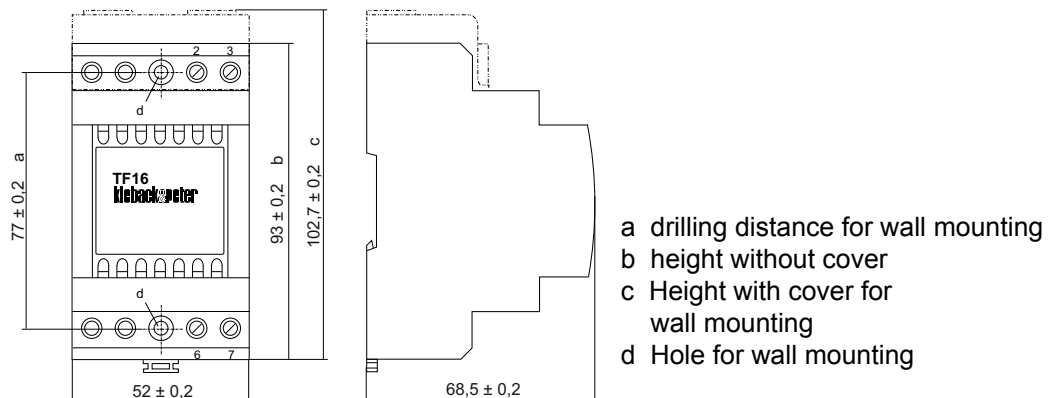
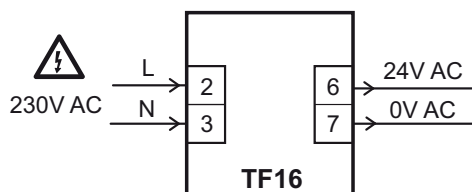
For disposal, the product is considered waste from electrical and electronic equipment (electronic waste) and must not be disposed of as household waste. Special treatment for specific components may be legally binding or ecologically sensible. The local and currently applicable legislation must be observed.

**Product Description****TF16****Item**

TF16 Safety isolating transformer, AC 230 V / AC 24 V, 16 VA

**Technical Data**

Input voltage	AC 230 V $\pm 10\%$ ; 50 Hz to 60 Hz
Output voltage	AC 24 V, 16 VA
Design	Safety isolating transformer in accordance with DIN EN 61558, encapsulated in insulated housing, short-circuit proof, light gray housing
Protection class	This device is intended for installation in a housing with protection class II or higher
Connection	Screw terminals, 2.5 mm <sup>2</sup>
Overvoltage category	IV
Rated impulse voltage	6000 V
Level of contamination	2
Method of operation	Type 1
Degree of protection	IP20, covered 230 V connection
Ambient temperature	0 °C..40 °C
Ambient humidity	During operation: 20%..80% r.h.; non-condensing Out of operation: 5%..90% r.h.; non-condensing
Installation	TH 35-7.5 top hat rail in closed housing
CE conformity	89/336/EWG electromagnetic compatibility 73/23/EWG Low Voltage Directive
Included:	2 x screws (2.8 x 54) with $\varnothing$ 5 mm anchor Cover for wall mounting
Weight	0.41 kg
Dimensions	WxHxD mm 52 x 102.7 x 68.5 (no cover H = 93 mm)

**Dimensions****Connection**

## Mounting



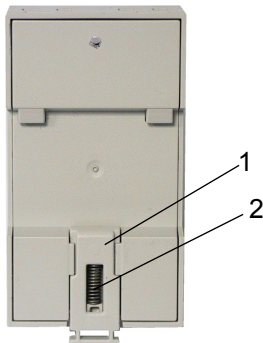
### WARNING

Danger of death by electrocution.  
Mount or remove only when power is switched off.

The TF16 safety isolating transformer can be screwed onto a control panel on a TH35-7.5 top-hat rail or a moisture-proof, flat surface (wall mounting).

### Wall mounting

For wall mounting, remove the top-hat rail locking device (1) after taking out the compression spring (2).



## Installation



### WARNING

Supply voltage of AC 230 V. Electrical installation and transformer connection may only be carried out by qualified technicians.

Installation with high-voltage lines must be made in accordance with VDE guidelines and local regulations.

The transformer is connected according to the obligatory wiring diagram.

## Cover for wall mounting

A cover for the AC 230 V low-voltage connection is included with the safety isolating transformer for wall mounting.



### NOTE

After connecting the transformer, push the cover over terminals 2 and 3 (AC 230 V) as a touch guard until the two locking hooks click securely into place on the transformer housing.

## Removing the cover



### WARNING

Before removing the cover, disconnect the AC 230 V power supply.  
The cover may only be removed by qualified technicians to check the connection.

To remove the cover, proceed as follows:

- ▶ Use a screwdriver to lightly push the two locking hooks down toward the transformer housing.
- ▶ Pull off the cover toward the front.