

Secondary Telephone Alarm and Signal Unit TWIN EExII

Explosion-proof optical and acoustic call signalling



Overview

The TWIN-EExII is specially designed for application in potentially explosive indoor or outdoor industrial areas. It offers two different operating modes that can be selected using the sliding switch:

As secondary telephone alarm the TWIN EExII is used to draw attention to incoming phone calls, which are indicated with high volume and additionally signalled by the integrated strobe light. Both signals are actuated by the AC ringing voltage.

In the signal unit mode the acoustic and optical signals are generated by applying the 230 V line voltage.

The TWIN-EExII is a compact unit comprising power supply, telephone connection, strobe light, amplifier and loud-speaker. The bottom box is made of seawater-resistant cast aluminium coated with plastic. The loudspeaker consists of impact and cold-resistant plastic and is permanently mounted to the housing. The strobe light cap made of polycarbonat forms the housing cover.

Features

- II 2 G Ex e mb [ib] IIC T6/T5/T4 Gb
- Protection class IP 66 according to EN 60529
- Explosion-proof, optical-acoustic signalling unit
- High-volume multitone alarm
- Powerful strobe light
- Supplied from the 230 V network

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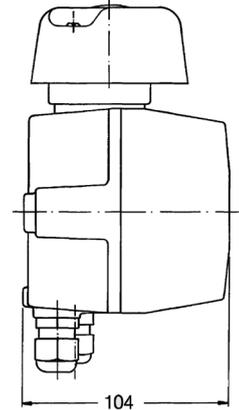
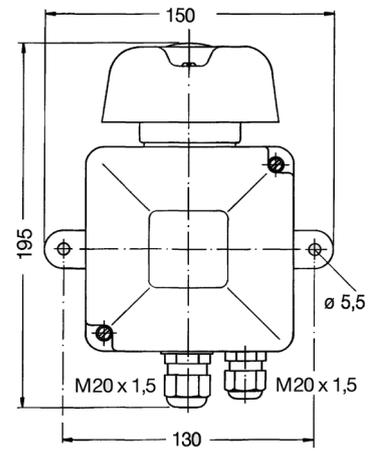
Certifications

| | |
|-----------------|--|
| Protection type | II 2 G Ex e mb [ib] IIC T6 Gb for -20 °C ≤ Ta ≤ +40 °C II 2 G Ex e mb [ib] IIC T5 Gb for -20 °C ≤ Ta ≤ +50 °C II 2 G Ex e mb [ib] IIC T4 Gb for -20 °C ≤ Ta ≤ +60 °C |
| Approval | PTB 99 ATEX 2115 BZT: D 130 879 J IECEX PTB 13.0048 |

Specifications

| | |
|--|--|
| Housing | Die-cast aluminium, cap made of macrolon |
| Protection class | IP 66 according to EN 60529 |
| Cable glands | 1x M20 x 1.5 (230 V network) 1x M20 x 1.5 (telephone network) |
| Cable diameter | 6-12 mm (230 V network)/5-10 mm (telephone network) |
| Connection terminals | Terminal capacity up to 1.5 mm ² ; single and fine-wired |
| Operating position | Any (wall or ceiling mounting) In rooms exposed to excess dust and/or moisture, the bell opening should be facing upward. |
| Operating mode | Secondary telephone alarm or signal unit with call pause bridging for secondary alarm mode |
| Power supply connection | L1, N, PE (PE at housing) 230 V, -15 % +10 %/50 Hz/60 Hz |
| External fuse required (not part of scope of delivery) | 500 mA |
| Telephone connection | W, Lb 30 VAC ... 75 VAC/23 Hz ... 54 Hz/0 VDC ... 63 VDC |
| Operating time | ≤ 60 minutes at Ta = +60 °C ≤ 15 minutes at 60 Hz (afterwards 30 minutes of break) |
| Acoustic signalling | Only with 230 V network |
| Signal alarm | Loudspeaker |
| Signals | Single-tone call/2-tone call/3-tone call |
| Volume | Approx. 90 dB(A), 1 m distance |
| Optical signalling | Only with 230 V network |
| Light source | 2 flash tubes, ca. 0,9 joule |
| Flash frequency | 1 Hz ... 2 Hz |
| Weight | Approx. 1.5 kg |

General arrangement drawing (all dimensions in mm)

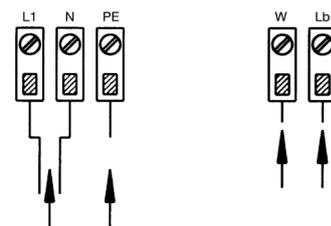


| Position | Operating mode |
|----------|---------------------------------|
| | secondary telephone alarm |
| | signal unit |
| | melody |
| | 3-tone 16.6 Hz |
| | 3-tone 50 Hz |
| | 3-tone 120 ms on/50 ms off |
| | 3-tone 60 ms on/25 ms off |
| | 2-tone 16.6 Hz |
| | 2-tone 50 Hz |
| | single-tone continuous tone |
| | single-tone 120 ms on/50 ms off |

Einstellen des Schiebeschalters / Setting the DIP switch

| Stellung Position | Betriebsart Operating Mode |
|----------------------|---|
| | Telefonzeitwecker Second telephone alarm |
| | Signalwecker Signal unit |

Terminal assignment



Ordering data

* The full article number for ATEX and IECEx variants is made up by appending the colour code to the article numbers given below. INMETRO and CUTR variants are available on request.

| Type | Designation | Nominal voltage | Ringing voltage | Ringing frequency | Article number |
|------------|---|-----------------|-----------------|-------------------|----------------|
| TWIN EExII | Secondary Telephone Alarm and Signal Unit | 230 VAC | 30-90 VAC | 16 Hz ... 54 Hz | FHF 118 83 3* |

| | |
|-------------|----|
| transparent | 11 |
| red | 12 |
| amber | 13 |
| green | 14 |
| blue | 15 |