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# Ex-Telephone-Signal-Combination eFSK (Ex-Twin)

## Optical and acoustic telephone call signalling device for use in areas with explosive atmospheres

- II 2 G Ex mbe [ib] IIC T6
- Protection degree IP 66
- Explosion-proof optical and acoustic signalling device
- ATEX-certified acc. to directive 94/9/EC
- Loud multitone bell
- Powerful strobe light

## Application

The eFSK 5842/1-ExII is specifically designed for use as secondary telephone call indicator or signalling device in industrial applications with explosive atmospheres and may be used both indoors and outside.
The eFSK 5842/1-ExII signalling device is suitable for both wall and ceiling mounting. The Twin-ExII can be adjusted on to the following operating modes with a dip switch:

**Secondary telephone call indicator**
In this mode the device is used for distinct signalling of incoming telephone calls in noisy environments. The signal is emitted loudly by the bell and additioned by the built-in strobe light. For this the strobe light is operated with call break bridging. The power supply for the optical and acoustic signals is fed from the 230 V mains. The signals are controlled by the AC-call voltage. No signals are emitted in the event of a power failure.

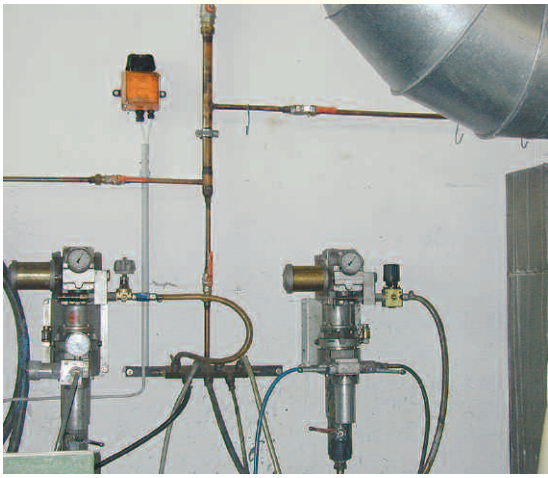
**Signalling device**
In this mode the device generates the acoustic and optical signals when the 230 V power supply is applied.

## Design

The device is a very compact unit comprising power supply, telephone connection, strobe light, amplifier and loudspeaker. The base is made of sea-water-proof cast aluminium and coated in plastic. The loudspeaker is made of impact and cold-resistant plastic and is mounted firmly on the housing. The cap of the strobe light forms the housing cover and is made of polycarbonate.

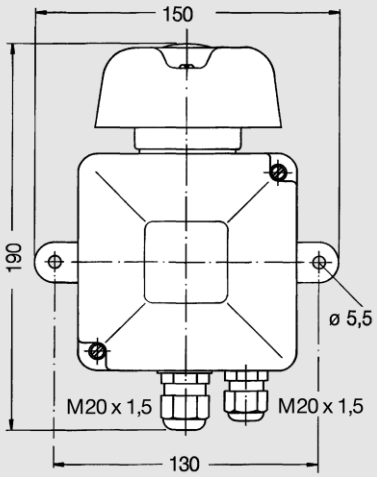
**Secondary telephone call indicator in a coating plant**

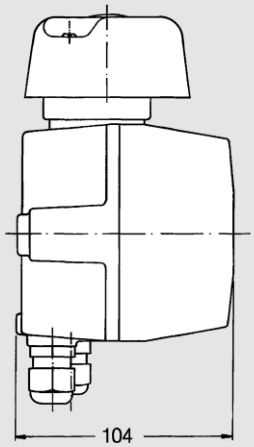
The power supply for optical and acoustic signals comes from 230 V mains.



# Technical specifications

| | | |
|---|---|---|
| Housing | Aluminium die cast, polycarbonate | |
| Protection degree | IP 66 (IEC 529) | |
| Cable gland | 1 x M20 x 1,5 (230 V mains)<br>1 x M20 x 1,5 (telephone circuit)<br>(Version with metric thread on request) | } Standard version |
| Cable diameters | Ø 5 or 9 mm | |
| Connection terminals | Cross section up to 1.5 mm², single and fine wire | |
| Operating position | Any (wall and ceiling mounting)<br>In dusty rooms and/or rooms exposed to water, vertical, cable glands downwards. | |
| Operating mode | 1. Secondary telephone call indicator<br>2. Signalling device<br>In secondary telephone call indicator mode with call break bridging. | |
| Power supply connection | L1, N, PE (PE on housing)<br>230 VAC -15% / +10% / 50 Hz, 60 mA | |
| Telephone connection | W, Lb<br>30 VAC to 90 VAC / 16 Hz to 54 Hz / 0 VDC to 63 VDC | |
| **Acoustic signal** | Only with 230 V power supply | |
| Signalling device | Loudspeaker | |
| Signals | 1-tone call / 2-tone call / 3-tone call | |
| **Volume** | Approx. 90 dB(A), 1 m<br>(Regarding volume specifications, please see the chapter “Technical Informations”.) | |
| **Optical signal** | Only with 230 V power supply | |
| **Light source** | 2 flash tubes, approx. 0.9 joule | |
| Flash frequency | 1 Hz to 2 Hz | |
| Temperature range | | |
| Operation | -20° C to +40° C | |
| Storage | -25° C to +70° C | |
| Expl. protection class | II 2G Ex mbe [ib] IIC T6 | |
| Approval | PTB 99 ATEX 2115<br>BZT: D 130 879 J | |
| Weight | Approx. 1.5 kg | |

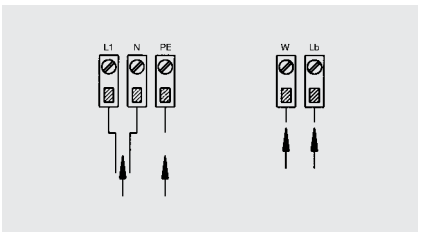



### Dip switch settings

| Setting | Mode | |
|---|---|---|
| | Secondary telephone call indicator | |
| | Signalling device | |
| **Setting** | **Melody** | |
| | Three-tone | 16.6 Hz |
| | Three-tone | 50 Hz |
| | Three-tone | 120 ms on / 50 ms off |
| | Three-tone | 60 ms on / 25 ms off |
| | Two-tone | 16.6 Hz |
| | Two-tone | 50 Hz |
| | One-tone | Continuous signal |
| | One-tone | 120 ms on / 50 ms off |

### Terminals




# Order information

| Type | Name | Rated volt. V | Call voltage | Call frequency | Art. no.* |
|---|---|---|---|---|---|
| eFSK 5842/1 | Optical and Acoustic Telephone Call Indicator | 230 VAC | 30–90 VAC | 16 Hz…54 Hz | 118 833 . . |

* The full article number is made up by appending the colour code for the coloured cap to the article numbers given below.

| | |
|---|---|
| **transp.** | 01 |
| **red** | 02 |
| **yellow** | 03 |
| **green** | 04 |
| **blue** | 05 |

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FHF Funke + Huster Fernsig GmbH · P.O. Box 14 01 66 · D-45441 Mülheim an der Ruhr · Gewerbeallee 15-19 · D-45478 Mülheim an der Ruhr
Telephone +49-208-82 68-0 · Fax +49-208- 82 68-286 · http://www.fhf.de · e-mail: info@fhf.de