

TWIN AD

Ex - Telephone Signal-Combination

AC8545/1304

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

- ◆ II 2 G Ex e mb [ib] IIC T6 Gb
- ◆ Protection degree IP 66 to EN60529
- ◆ Explosion-proof optical and acoustic signalling device
- ◆ ATEX-certified acc. to directive 94/9/EC
- ◆ Loud multitone bell
- ◆ Powerful strobe light

Application

The **TWIN AD** 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 **TWIN AD** signalling device is suitable for both wall and ceiling mounting. The TWIN-Ex II can be adjusted on 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 230V 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 230V 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.



Technical specifications

Housing	Aluminium die cast, polycarbonate
Protection degree	IP66 (IEC 529)
Cable gland	1 x M20 x 1,5 (230V mains) 1 x M20 x 1,5 (telephone circuit) } Standard version (Version with metric thread on request)
Cable diameters	Ø 6 to 12 mm (230V line voltage) / Ø 5 to 10 mm telephone line)
Connection terminals	Cross section up to 1.5mm ² , single and fine wire
Operating position	Any (wall and ceiling mounting) In dusty rooms and/or rooms exposed to water, vertical, cable glands downwards.
Operating mode	1. Secondary telephone call indicator 2. Signal unit In second telephone alarm mode with call break bridging.
Power supply connection	L1, N, PE (PE on housing) 230VAC -15% / +10% / 50Hz, 60mA
Telephone connection	W, Lb 30VAC to 90VAC / 16Hz to 54Hz / 0VDC to 63VDC
Switch-on time	≤ 60 minutes by Ta = +60°C ≤ 15 minutes by 60 Hz (afterwards 30 minutes of break)

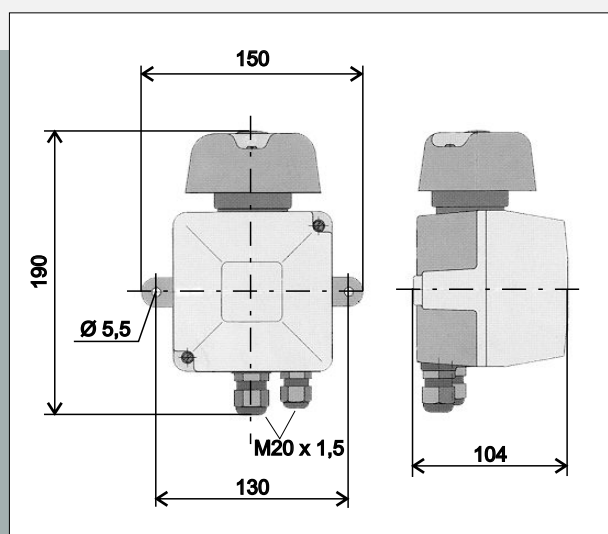
Acoustic signal	Only with 230V power supply
Signalling device	Loudspeaker
Signals	1-tone call / 2-tone call / 3-tone call
Volume	Approx. 90dB(A), 1m

Optical signal	Only with 230V power supply
Light source	2 flash tubes, approx. 0.9joule
Flash frequency	1Hz to 2Hz

Type of protection and ambient temperature

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

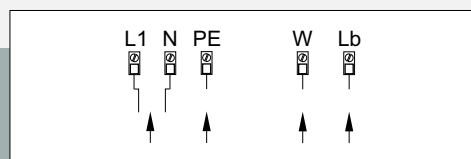
Weight Approx.1.5kg



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



Designation	Type	Colors	Code
Water-proof version	TWIN S	yellow	7332951
Explosion-proof version	TWIN AD	yellow	7332911
	TWIN AD	red	7332912
Other colors on request: clear - green - blue			