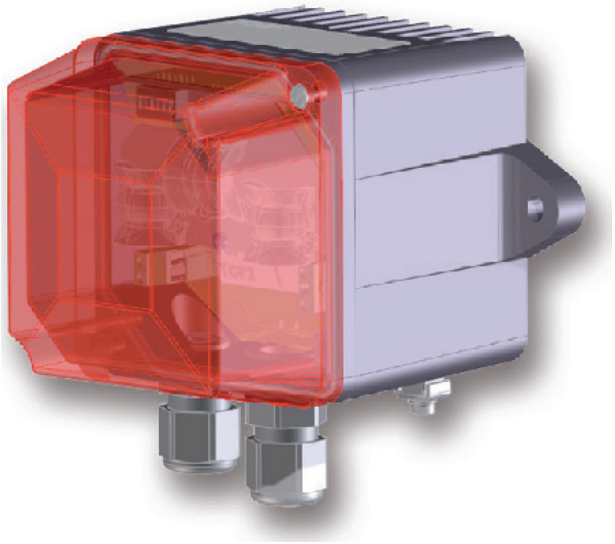
Malux solutions

TWIN LED Secondary Telephone Alarm and Signal Unit

Optical and acoustic call signalling



Overview

The optical and acoustic secondary alarm and signal unit is designed for application in industrial areas and and suitable for indoor and outdoor use.

The TWIN LED is a device suitable for connection to analogue public telephone networks and private branch exchanges.

When receiving a call signal to the respective telephone connection, the device submits optical and acoustic signals.

The signal light is available in 5 different cap colours.

Features

- Protection class IP 66
- Robust housing made of aluminium
- Very bright LED technique
- Extremely long life-cycle
- 4 loud melodies selectable
- Volume approx. 100 dB(A)

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

Technical data

Operating modes		
	Secondary Telephone Alarm and Signal unit	Selectable via slide-switch
Secondary telephone alarm		Signalling is performed when call from analogue telephone network arrives. A present power supply is required.
Signal unit		Signalling is performed at activation of power supply
Cable glands		2x M20 x 1.5 for lines ø 6-13 mm
Terminal capacity		0.2-2.5 mm² stranded wire 0.2-4.0 mm² massive
Power supply		
	Terminal designation	For AC supply: L, N, PE, additionally PA outside For DC supply: V+, V-, PA outside
	Voltage supply AC	Overvoltage category CAT II (according to EN60664-1) U_N = 115 V_{AC} to 230 V_{AC}/f = 50 Hz to 60 Hz Minimum admissible voltage = 100 VAC Maximum admissible voltage = 253 VAC
	Voltage supply DC	24 V_{DC} +10/-20 % Minimum admissible voltage = 19,2 V_{DC} Maximum admissible voltage = 26,4 V_{DC}
Operating time		Suitable for continuous operation
Telephone connection		
	Terminal designation	TCP1, TCP2
	AC ringing voltage	24 V_{AC} … 100 V_{AC}
	Overlaid supply voltage	≤ 66 V_{DC}
	Ringing frequency	20 Hz … 68 Hz
	Input impedance at 25 Hz	Z ≥ 16 kΩ @ 30 … 70 VZ
	Input impedance at 50 Hz	Z ≥ 8 kΩ @ 30 … 70 V
Acoustic signalling		
	Acoustic signal	8 different settings (selectable via slide-switch)
	Volume setting	4 loud melodies selectable 4 lower melodies selectable
	Maximum volume	Approx. 101 dB(A) in 1 m distance
	Minimum volume	Approx. 91 dB(A) in 1 m distance
Optical signalling		
	Optical signalling unit	3 LEDs
	Colour selection	Coloured cap, coloured LED
	Flashing interval	80 ms
	Flash frequency	1 Hz
	Signalling interval after ringing (bridging of calling pause)	Approx. 4 s
Housing		die-cast Aluminium, surface powder-coated
	Weight	Approx.1.7 kg
	Operating position	Any

Technical data

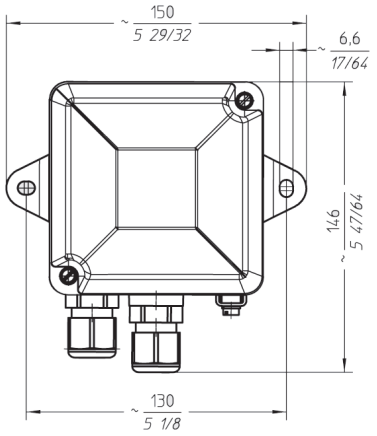
Environmental conditions		
	Operating temperature	-40 °C bis +65 °C
	Transport and storage temperature	-40 °C to +85 °C according to IEC60721
Protection class		IP 66 according to EN 60529
Category		I (PE connection available)
Anschlussplan		
	Telephone network	Connect polarity-independent in parallel to telephone (TCP1, TCP2)
	Supply network	Observe the polarity in DC networks. In AC networks, the outer conductor should be connected to L, the neutral conductor to N and the protective conductor to PE
	Potential equalization	Must be connected in all models, even in case of DC supply. The connector is situated on the outside of the housing.

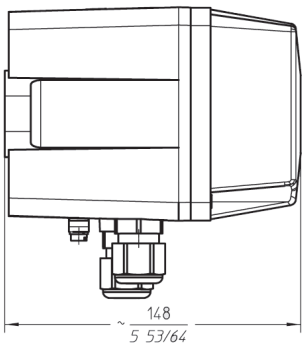
Ordering data

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

Type	Designation	Model	Current consumption	Article number*
TWIN LED	Secondary Alarm and Signal Unit	100 to 253 V_{AC}	0,08 A/0,04 A	FHF 118 827 ..
TWIN LED	Secondary Alarm and Signal Unit	24 V_{DC}	0,15 A	FHF 118 823 ..

General arrangement drawing (all dimensions in mm)





transparent	01
red	02
amber	03
green	04
blue	05