



FIRE



SD500LI

VISUAL AND ACOUSTIC
FIRE ALARM DEVICE

SD500LI: VISUAL AND ACOUSTIC FIRE ALARM DEVICE

The new ELKRON smart device consists of a base with sounder and integrated flashing light. It can be used both with a digital line detector of the FAP54 series (item no. FDO500, FDT500, FDTD500 and FDOT500) and with an independent device.

This device is **directly powered by the loop** and does not require power supply and relevant external wiring; **it uses a single connection point for acoustic and visual signalling and detection.**

The SD500LI base is equipped with high sound pressure sounder and a powerful LED flashing light. As for all ELKRON digital devices, it is equipped with an integrated insulating module. Visual and acoustic synchronisation with other bases installed on the same detection line is implemented in the base.

The base can also be used as an actuator to be connected to any conventional control unit (sounder output) or to any actuation module of the FAP54 series digital range. Programming flexibility through control unit or dip-switch on the device.

Technical features

- ✓ Integrated insulating module
- ✓ Supply from loop
- ✓ To be used as a base and sounder/flashing light with a detector or as an independent sounder/flashing light
- ✓ Cover supplied with the product
- ✓ Configuration from control unit or through dip-switch on device
- ✓ DoP 1293-CPR-0534



SD500LI

Item no. 80SD5X00121

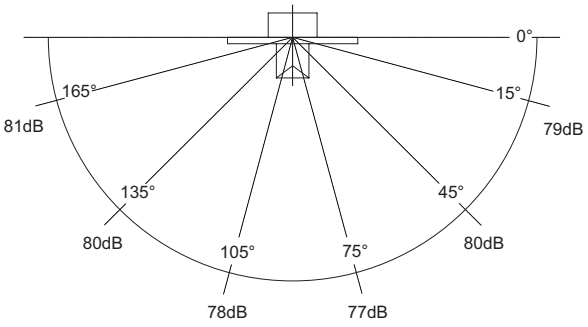
Advantages

- ✓ Easy installation
- ✓ Selectable acoustic tones
- ✓ Selectable acoustic emission volume
- ✓ Flash/ acoustic synchronisation
- ✓ Single connection point for acoustic and visual signalling and detection

Small-sized



Technical features

TECHNICAL SPECIFICATIONS	
OPERATING VOLTAGE	20Vdc (-15%, +10%) modulated – detection line 24Vdc (-15%, +10%) – sounder output
ABSORPTION IN STANDARD CONDITIONS	250µA at 20Vdc
ABSORPTION IN ALARM CONDITIONS	2.5mA at 20Vdc / 3mA at 24Vdc
SOUND POWER FROM 1M DISTANCE FOR EACH MODE	High volume: 78dB, 77dB, 77dB, 77dB Medium volume: 76dB, 74dB, 73dB, 74dB Low volume: 74dB, 73dB, 73dB, 73dB
ACOUSTIC EMISSION FROM 1M DISTANCE: • CONTINUOUS MODE AT 920HZ • MAXIMUM VOLUME	
SOUND MODES	Ramp 800÷970Hz, 1s duration Two-tone 610/920Hz, 1Hz interval Intermittent 920/0Hz, 1Hz interval Continuous 920Hz
FLASHING RATE	0.5Hz
TWO-COLOUR LED	Slow flashing green (2s): normal status Fast flashing green: doubled address Flashing Green/Red: address display
MAXIMUM NUMBER OF BASES IN ALARM PER LINE IN RELATION TO THE LINE CABLE RESISTANCE	64(10Ω); 46(20Ω); 34(30Ω); 26(40Ω); 20(50Ω)
MAXIMUM NUMBER OF BASES IN ALARM PER LINE WITH 5 ALARM DETECTORS (DETECTOR LEDS STEADY ON) IN RELATION TO THE LINE CABLE RESISTANCE	45(10Ω); 32(20Ω); 23(30Ω); 16(40Ω); 10(50Ω)

ENVIRONMENT SPECIFICATIONS	
OPERATING TEMPERATURE RANGE	-10 ÷ 55 °C ± 2 °C (14 ÷ 131°F)
RELATIVE HUMIDITY	93% ± 2% non condensing
STORAGE TEMPERATURE	30 ÷ 70 °C (-22 ÷ 158°F)
ENVIRONMENT CLASS	Type A – Indoor

PHYSICAL SPECIFICATIONS	
PROTECTION DEGREE	IP21C
DIMENSIONS	Ø 114mm H 51 mm (2,16 in) with cover H 66÷75 mm (2,59÷2,95 in) with detector
WEIGHT	170 g

INSTALLATION

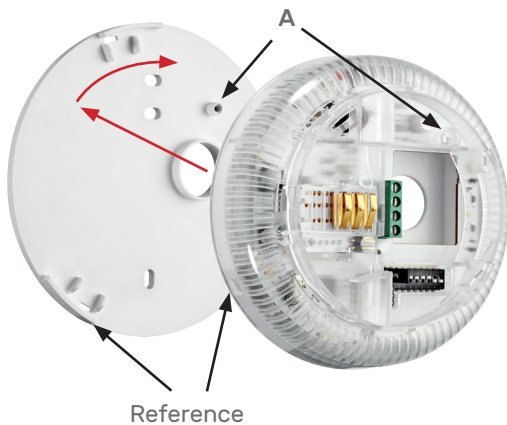
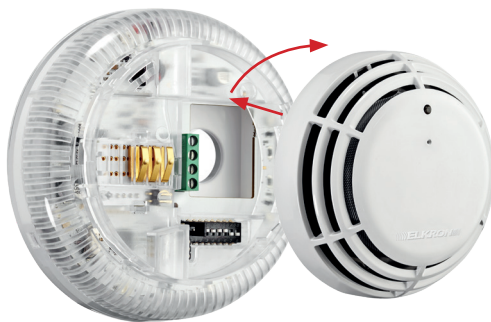


Fig. 1

Fastening the base to the disc

- ✓ Secure the plastic disc on a flat surface using the drilling jig, and the breaking presets using the specific blocks and screws
- ✓ Engage the base to the plastic disc by rotating it following the direction indicated by the arrow
- ✓ Insert the "A" fastening screw together with the plastic disc in the base and tighten it (Fig. 1)



Fastening the detector to the base

- ✓ Perform the wiring connections with the detection line
- ✓ Prearrange jumpers and micro-switches according to the configuration selected
- ✓ Engage the detector to the base by rotating it in the direction of the arrow (Fig. 2)

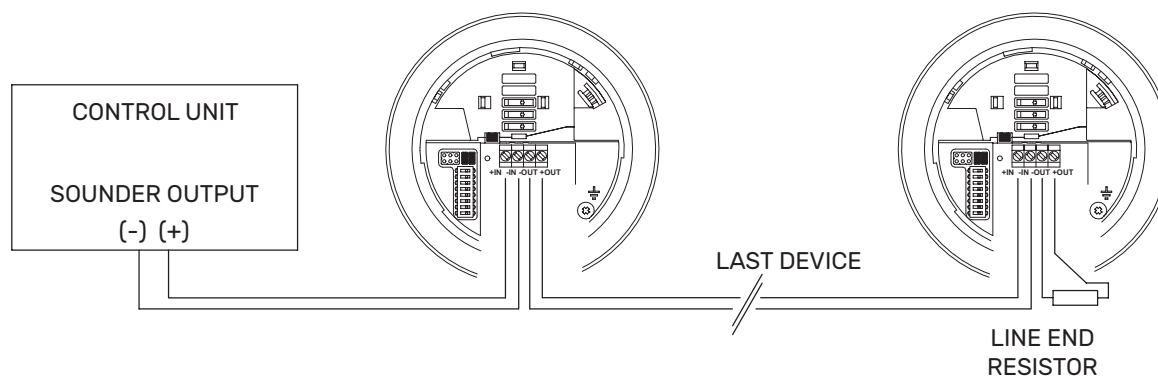


Fastening the cover to the base

- ✓ Perform the wiring connections with the detection line
- ✓ Prearrange jumpers and micro-switches according to the configuration selected
- ✓ Engage the cover to the base by rotating it in the direction of the arrow (Fig. 3)

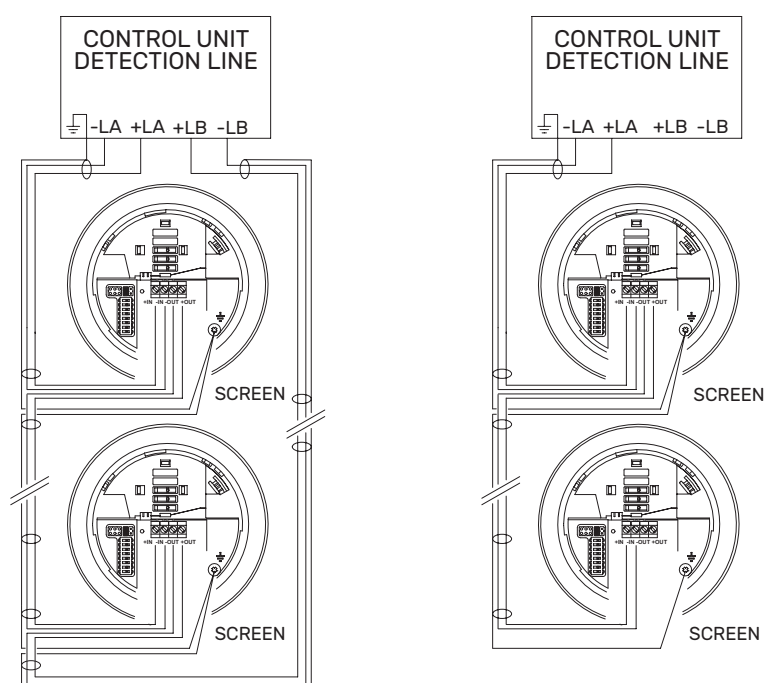
INSTALLATION

Connection example: independent bases



The sounder output of any control unit can be connected to the base to be used as an acoustic/visual actuator.

Connection example: bases on FAP54 digital control units



The base is used as single connection point for acoustic and visual signalling and detection.



FIRE



Elkron is a trademark of Urmet S.p.A.

Via Bologna, 188 C
10154 Torino (Italy)

☎ (+39) 011 39 86 711

✉ info@elkron.it

www.elkron.com

follow us on   