Teletek SensoIRIS WSST IS Fire Alarm Sounder And Strobe With Built-In Isolator Module User Manual

Contents [hide

TELETEK

Teletek SensoIRIS WSST IS Fire Alarm Sounder And Strobe With Built-In Isolator Module

Installation Instruction

ATTENTION: Read carefully this installation Instructions before installing the device! This manual is subject to change without notice! SensoIRIS WSST IS is an addressable Wall Mount Sounder and Strobe with built-in isolator module designed for installing in addressable fire alarm systems supporting TTE communication protocol. The device is powered on from the panel and can be controlled via the communication protocol.
The sounder SensoIRIS WSST IS is compatible with fire bases B124 for ceiling or wall mounting and WSB IP65 for wall mounting (refer to manual 18020861 for details).

54-23 VAD (Visual Alarm Device)
Note: The coverage volume diagram and characteristics of the sounder are described in document “SensoIRIS WSST IS Coverage volume, RevB, 04/2018”.
Installation Instructions

Attention: Power off the loop circuit before installing the SensoIRIS WSST IS addressable sounder!

1. Choose the proper place for installation of the device.
2. Set the device address using SensoIRIS Programmer or directly from addressable fire panel. The address must be in the range from 1 to 250.
3. Mount the fire base on the ceiling or on the wall of the protected premises using fixings according the mounting surface.
4. Connect the base to the fire panel using the wiring diagram.
5. Insert the device into the base and rotate clockwise until it drops into place
    - the short mark on the base fits with that on the sounder body. Continue to rotate the sounder until its mark coincides with the long mark on the base – a click is heard.
6. Program the device parameters. Choose in consecutiveness from the control panel: System – Programming – Devices – Loop. Find the installed sounder, as enter address, loop and zone number – the panel automatically will recognize the type of the device. Choose the button MORE to enter in the additional settings menu.
7. Test the sounder for proper operation.

Warranty

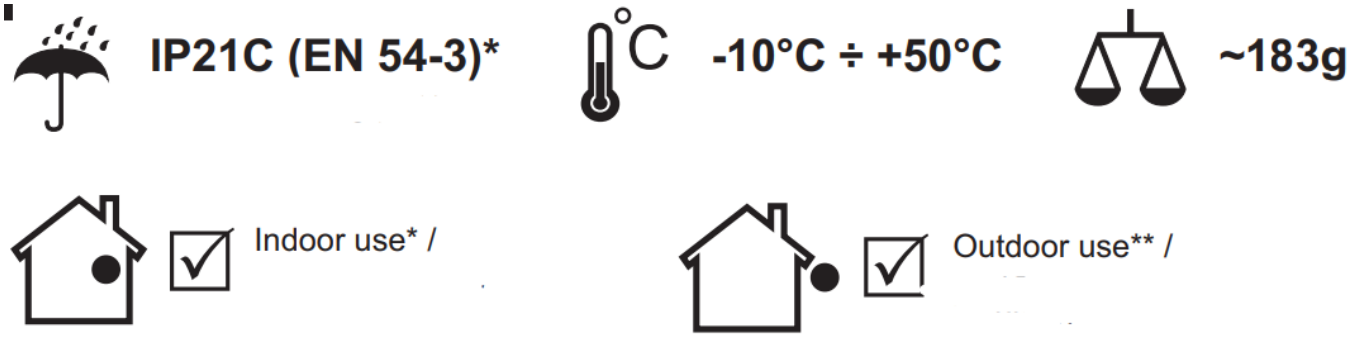
All devices carry on a warranty valid from the date of manufacture. The date of manufacture can be checked by the code marking on the back of the device. The date is printed numbers – YY MM. The first two numbers represent the year and the last two – the month. For example: The date code “20 07”, means the device is manufactured in July, 2020.
To return goods for warranty service, please contact with your local distributer for details.

Technical Specifications

Operating Voltage Range	16 - 32VDC (Nom. 27VDC)
Nominal consumption (stand-by)	<500µA@27VDC
Maximal consumption (main tone type 27):	
- low volume level, sound only	<5mA
- low volume level, sound and strobe	<12mA
- high volume level, sound only*	<16.5mA
- high volume level, sound and strobe*	<22mA
Maximal consumption (other tone types):	
- low volume level, sound only	<4mA
- low volume level, sound and strobe	<11mA
- high volume level, sound only	<10mA
- high volume level, sound and strobe	<16.5mA
Consumption with activated isolator	<15mA
Power volume (main tone type 27):	
- low volume	~ 80dB (A) ± 6dB @ 1m
- high volume*	~ 92dB (A) ± 5dB @ 1m
Power volume (other tone types):	
- low volume	75-85dB ± 3dB @ 1m
- high volume	80-95dB ± 3dB @ 1m
Number of tone types	32
Supported communication protocol	TTE
Wire Gauge for terminals	2.5mm^2
Relative humidity resistance	(93 ± 3)% @ 40°C
Color	white/weiß/бял
Material (transparent)	SAN
Dimensions	116x55mm

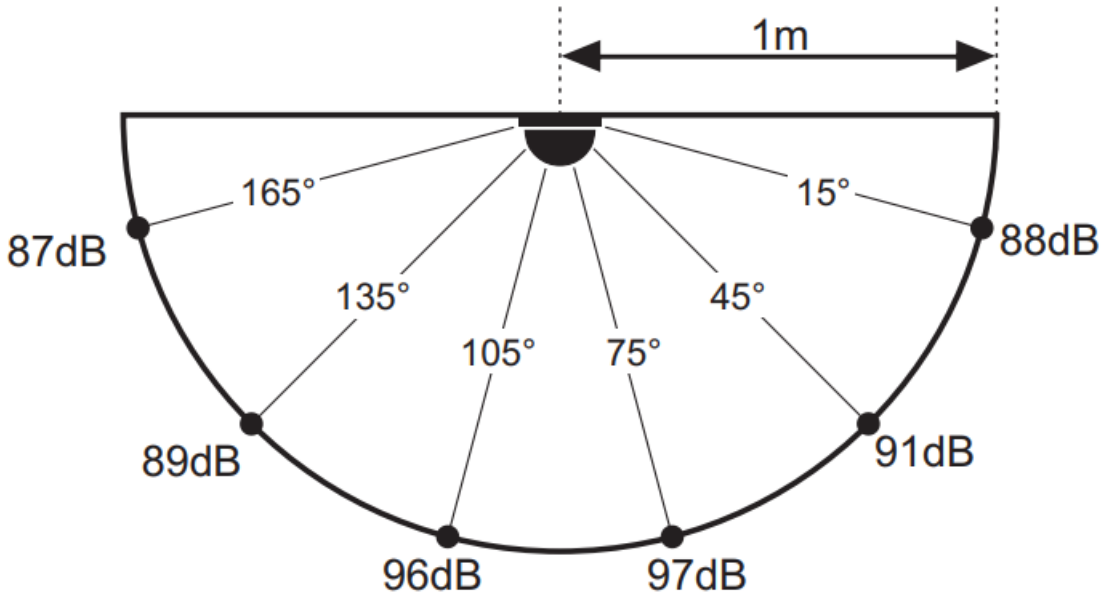
Isolator Module Technical Specifications

Vmax	Max. line voltage	32V
Vnom	Nom. line voltage	28V
Vmin	Min. line voltage	16V
Vso max	Max. voltage at which the device isolates*	7.5V
Vso min	Min. voltage at which the device isolates*	5.9V
Vsc max	Max. voltage at which the device reconnects**	6.7V
Vsc min	Min. voltage at which the device reconnects**	5V
Ic max	Max. rated continuous current with the switch closed	0.7A
Is max	Max. rated switching current (e.g. under short circuit)	1.8A
Il max	Max. leakage current with the switch open (isolated state)	16mA
Zc max	Max. series impedance with the switch closed	0.12Ω@28VDC; 0.15Ω@15VDC

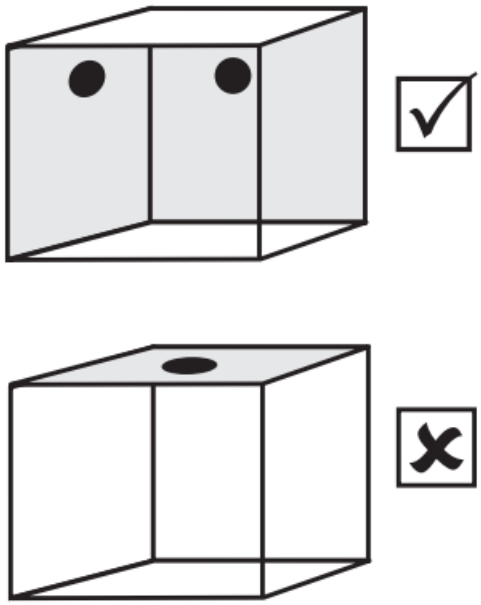


When used with base B124

A-weighted sound level diagram

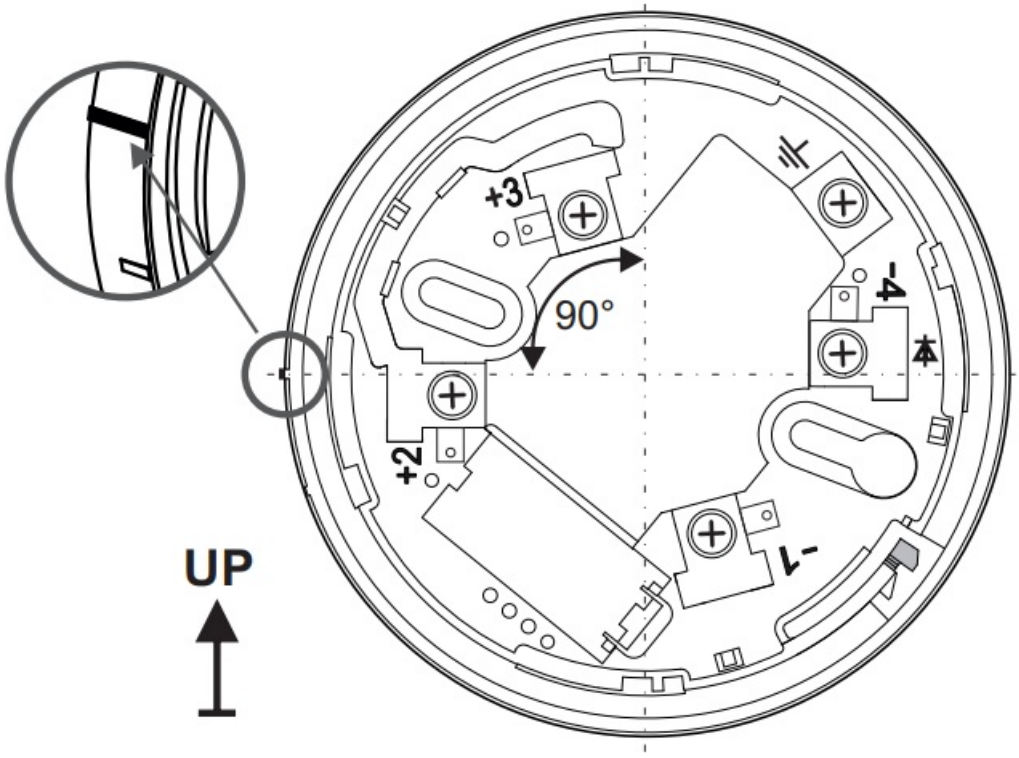


54-23 VAD (Visual Alarm Device)

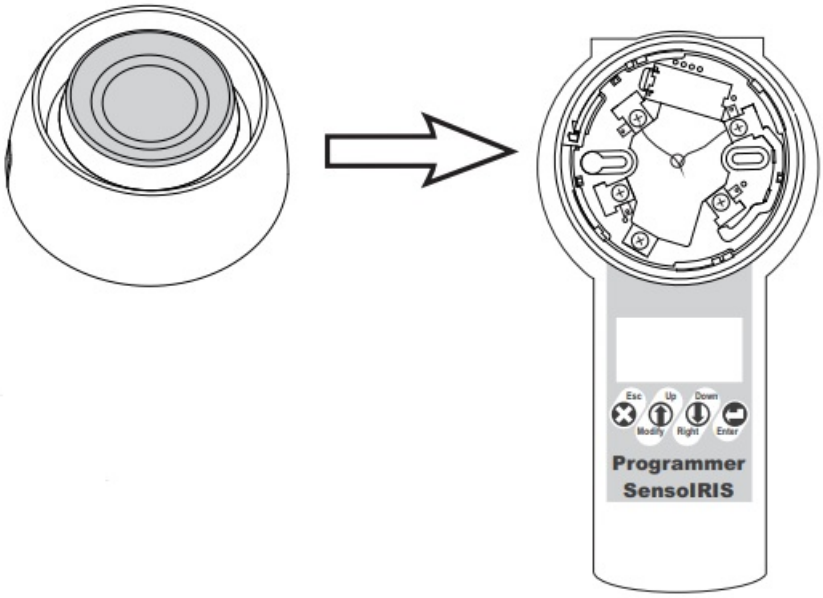


Installation

Base B124/ Sockel B124

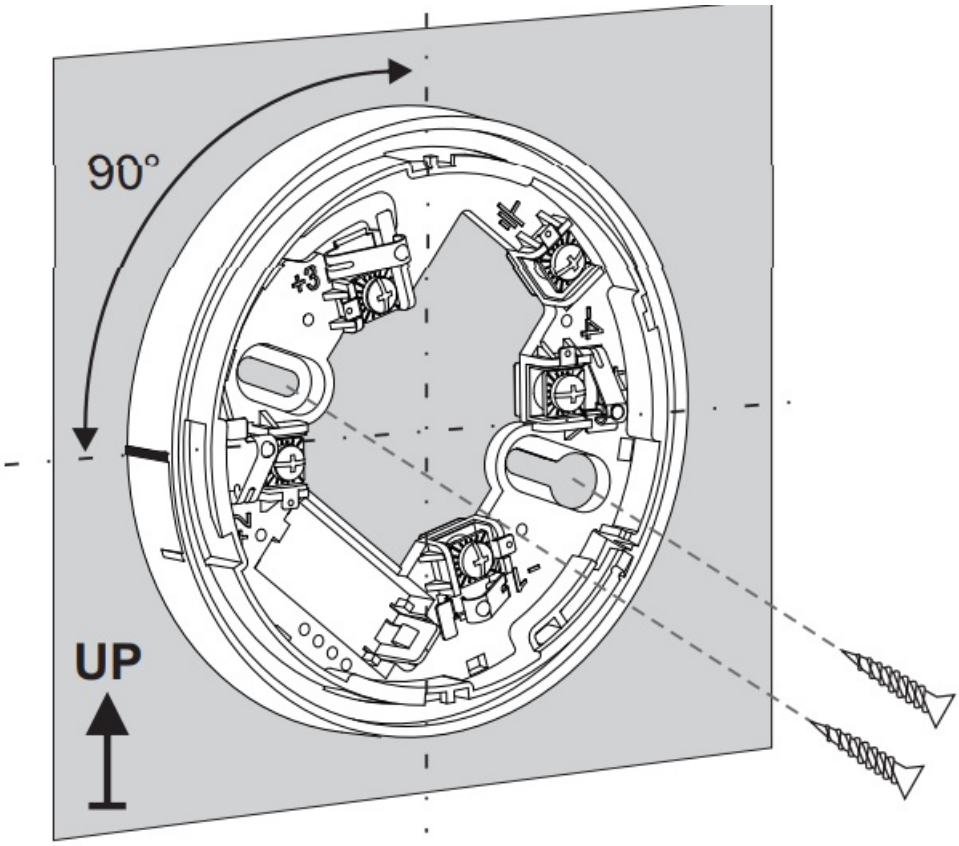


Address programming

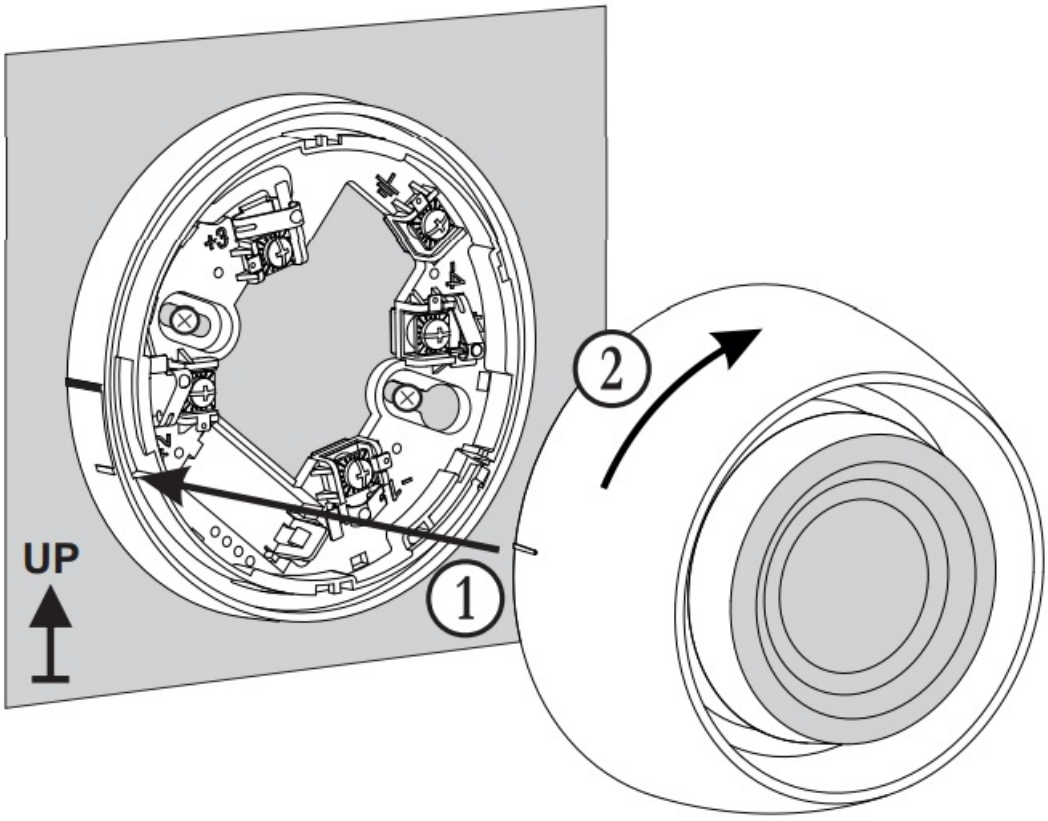


Note: You may also program the address directly from the fire panel.

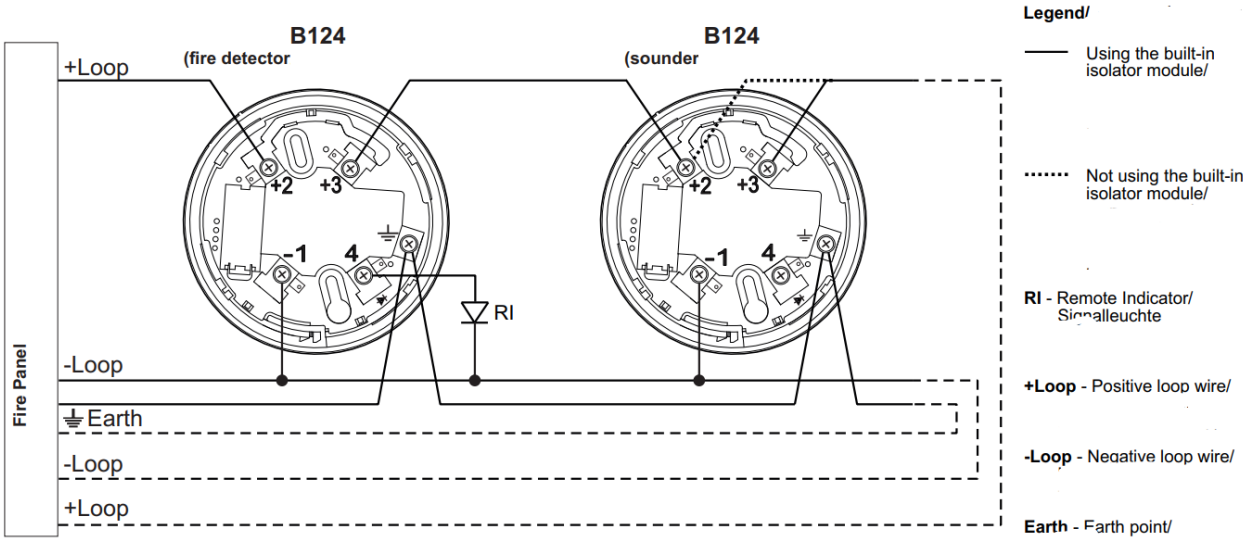
Mounting Base B124



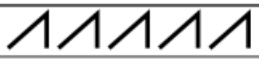
Mounting the sounder



Wiring Diagram


B124
(fire detector
B124
(sounder
+Loop
+2
+3
-1
4
RI
-Loop
Earth
-Loop
+Loop
Fire Panel
Legend/
Using the built-in isolator module/
Not using the built-in isolator module/
RI - Remote Indicator/ Signalleuchte
+Loop - Positive loop wire/
-Loop - Negative loop wire/
Earth - Earth point/

Tone types and description

Tone	Tone Type	Tone Description / Application
1		970Hz
2		800Hz/970Hz @ 2Hz
3		800Hz - 970Hz @ 1Hz
4		970Hz 1s OFF/1s ON
5		970Hz, 0.5s/ 630Hz, 0.5s
6		554Hz, 0.1s/ 440Hz, 0.4s (AFNOR NF S 32 001)
7		500 - 1200Hz, 3.5s/ 0.5s OFF (NEN 2575:2000)
8		420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)
9		500 - 1200Hz, 0.5s/ 0.5s OFF x 3/1.5s OFF (AS1670 Evacuation)
10		550Hz/440Hz @ 0.5Hz
11		970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201)
12		2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201)
13		1200Hz - 500Hz @ 1Hz (DIN 33 404)
14		400Hz
15		550Hz, 0.7s/1000Hz, 0.33s
16		1500Hz - 2700Hz @ 3Hz
17		750Hz
18		2400Hz
19		660Hz
20		660Hz 1.8s ON/1.8s OFF
21		660Hz 0.15s ON/0.15s OFF
22		510Hz, 0.25s/ 610Hz, 0.25s
23		800/1000Hz 0.5s each (1Hz)
24		250Hz - 1200Hz @ 12Hz
25		500Hz - 1200Hz @ 0.33Hz
26		2400Hz - 2900Hz @ 9Hz
27*		**2400Hz - 2900Hz @ 3Hz** (**2500Hz** - main sound frequency/ Hauptfrequenz / основна честота)
28		800Hz - 970Hz @ 100Hz
29		800Hz - 970Hz @ 9Hz
30		800Hz - 970Hz @ 3Hz
31		800Hz, 0.25s ON/1s OFF
32		600Hz – 1100Hz, 2.6s/0.4s OFF

Note: Approved to EN54-3 only.

Essential characteristics

Performance under fire conditions	Pass
Operational reliability	Pass
Duration of operation	Pass
Provision for external conductors	Pass
Flammability of materials	Pass
Enclosure protection	Pass
Access	Pass
Manufacturer's adjustments	Pass
On-site adjustments of behavior	Pass
Requirements for software controlled devices	Pass
Coverage volume	Pass
Variation of light output	Pass
Min. and max. light intensity	Pass
Light color	White
Light temporal pattern/ frequency of flashing	Pass
Marking and data	Pass
Synchronization	Pass
Durability:	
Temperature resistance	Pass
Humidity resistance	Pass
Shock and vibration resistance	Pass
Corrosion resistance	Pass
Resistance to ingress	Pass
Electrical stability	Pass

Teletek Electronics JSC
Address: 14A Srebarna Str, 1407 Sofia, Bulgaria

- EN 54-3:2001
- EN 54-3:2001/A1:2002
- EN 54-3:2001/A2:2006
- EN 54-17:2005
- EN 54-17:2005/AC:2007
- EN 54-23:2010
- Fire alarm devices – Visual alarm device (VAD) intended for use in and around buildings
- **Sounder Type:** A
- **Coverage volume:** Open class

Documents / Resources

	Teletek SensoIRIS WSST IS Fire Alarm Sounder And Strobe With Built-In Isolator Module [pdf] User Manual SensoIRIS WSST IS Fire Alarm Sounder And Strobe With Built-In Isolator Module, SensoIRIS WSST IS, Fire Alarm Sounder And Strobe With Built-In Isolator Module, Built-In Isolator Module