TFS-2282

Intelligent Addressable Sounder and Beacon
with Built-In Isolator
Installation & User Manual

teknim®

Release Date: 20/12/2024
Rev. Date: - Rev. No:00
Doc. Ref.: HM.Z.KLV.8430

General

- Read this manual carefully before operating the device and keep it for future reference.
- Follow all warnings and precautions stated in the user manual. Perform all operation and usage instructions in sequence.
- Keep the devices away from water and moisture.

Service and Maintenance

The repair of the device should not be performed by the user. Interfering with the internal components of the device is not recommended as it carries the risk of electric shock. In case of any malfunction, the device's seller or authorized service should be contacted. Technical maintenance and repair of the device should only be performed by qualified and authorized service personnel. Cleaning of the device should be done using a dry cloth, and no chemical substances should be used.

Warning !
Do not attempt to remove the card from its plastic enclosure. It is closed for your safety. Users should avoid tampering.

Service Required Fault Conditions

In case of any malfunction or below conditions contact with your authorized service.

- When there is liquid contact or mechanical damage that may have occurred,
- When there is a noticeable change in device performance,

Spare Part

If the repair process will be done by replacing parts, make sure that the service technician uses original or equivalent parts to avoid the risk of fire, electric shock, or other malfunctions.

Transportation and Shipping

The device should be transported carefully, ensuring that it is not subjected to any impact and is protected against liquid ingress. Damages caused by inappropriate transportation are not covered by warranty.

Human and Environmental Health

This device does not contain any chemical or biological substance that may harm human health.

Technical Specifications

Power	32VDC
Current Consumption	~120 µA
Start Time	15 sec.
Alarm Consumption (Default Tone)	Norm.=6 mA (Factory Default Setting)
Sound Level	Min: 85dB/ Norm: 92dB (Factory Default Setting)/ Max: 100dB ±2 dB (at 1 meter)
Sound Tone	24 Different Tone
Sounder Type	Type A device
Beacon Mode	3 (Slow, Normal, Fast)
Piezo	Piezo with leakproof seal
Leds	Wide Range White Bright LED (16 Pcs)
Notification Led	Yellow and Blue
IP Class	IP21C
Operating Temperature Range	-10°C ~ +55°C
Coverage Area	W-2,4-5
Usage Area	Internal use in building
Humudity	Between %0 - %95 at +40°C
Dimentions (Base Included)	Ø:106,6mm, h:69.5mm
Body Material	UL94 V-0 flame-retardant material (Red, Transparent)
Cable Selection	Shield fire cable (0.8mm ² ~ 2.5mm ²)
Weight (Base Included)	210 gram

Isolator

Avarage Consumption @24V	15uA
Vmax.	32V
Vnom.	24V
Vmin.	15V
Vso_max.	5V
Vso_min.	0.2V
Vsc_max.	27V
Vsc_min.	8V
Ic_max.	0.9A
Is_max.	1A
IL_max.	0,026A
Zc_max.	0,086Ω

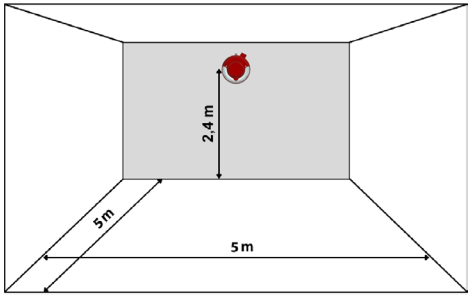
Notification LEDs

	Yellow and Blue LEDs
The device is in normal working condition (can be off through CP)	20s Beacon (Blue)
Alarm Condition	X
Shortcircuit	Constant Lit (Yellow)

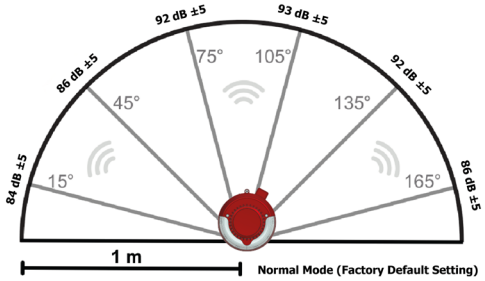
Terminals

Terminal -	Negative (-) power input or power out
Terminal +	Positive (+) power input or power out
Terminal -	Negative (-) power input or power out
Terminal +	Positive (+) power input or power out

Wall Mounted Device Demonstration



Weighted Sound Level Shape



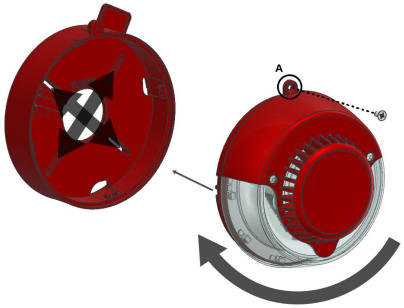
Supported Beacon Modes and Descriptions

Beacon Mode	Beacon Type
MODE 1	Slow and Normal Mode 0.5 Hz pwm signal(On 100 ms, off 1900 ms)
MODE 2	Slow and Normal Mode 0.5 Hz pwm signal(On 100 ms, off 1900 ms)
MODE 3	Fast Mode 1 Hz pwm signal(On 100 ms, off 900 ms)

Supported Tone Modes

Tone Modes	Sound frequency range	Tone Country	Tone Standard
TONE 1	1650Hz~2754Hz		Default(TFS-4192)
TONE 2	1754Hz~2380Hz		Default(TFS-1182)
TONE 3	440Hz(400ms)~554Hz(100ms)	France	NFS 32-001
TONE 4	800Hz(500ms)~970Hz(500ms)	UK	BS5839 Pt1
TONE 5	800Hz(250ms)~970Hz(250ms)	UK	BS5839 Pt1,FP1063.1
TONE 6	0Hz(1000ms)~970Hz(250ms)	UK	BS5839 Pt1
TONE 7	0Hz(1000ms)~970Hz(1000ms)	UK	BS5839 Pt1
TONE 8	0Hz(500ms)~970Hz(500ms)	UK	BS5839 Pt1
TONE 9	0Hz(150ms)~660Hz(150ms)	Sweden	
TONE 10	0Hz(625ms)~420Hz(625ms)	Sweden	AS2220
TONE 11	800Hz~970Hz	UK	BS5839 Pt1
TONE 12	800Hz~970Hz	UK,Germany	BS5839 Pt1
TONE 13	2400Hz~2850Hz	Germany	BS5839 Pt1 VdS
TONE 14	500Hz~1200Hz(3750ms on,250ms off)	NZ,Aus	AS2220
TONE 15	500Hz~1200Hz(3500ms on,500ms off)	Netherlands	NEN 2575
TONE 16	1200Hz~500Hz	Germay	DIN, PFEER
TONE 17	0Hz~950Hz	Australia	ISO8201 Temporal 3
TONE 18	0Hz~970Hz	Australia	ISO8201 US Temporal
TONE 19	0Hz~2850Hz	Australia	ISO8201 US Temporal
TONE 20	1200Hz~400Hz	Australia	ISO8201 Temporal 4
TONE 21	1200Hz~500Hz	Australia	AS1670 Evacuation
TONE 22	970Hz		BS5839 Pt1
TONE 23	800Hz		BS5839 Pt1
TONE 24	800Hz	Sweden	
TONE 25 to TONE 42	1650Hz~2754Hz	Default	

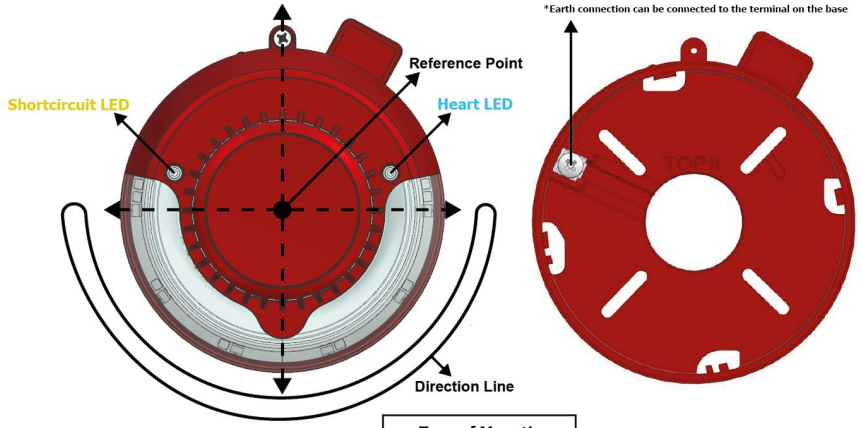
Mounting and Connection



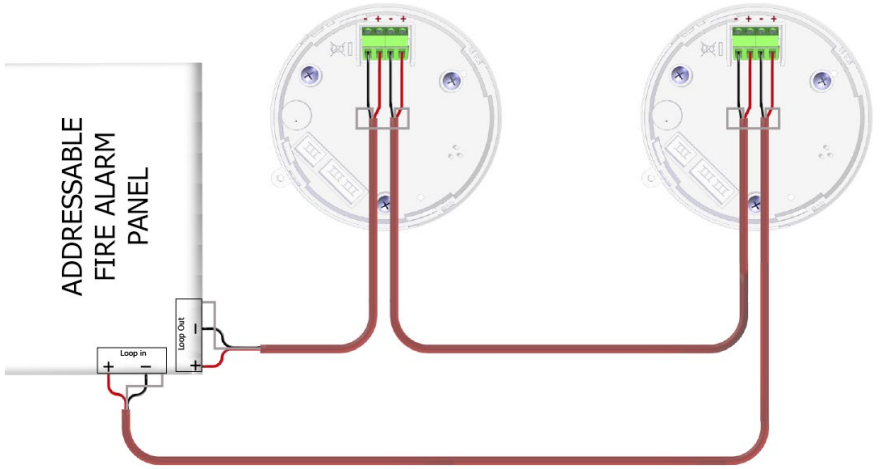
1. Remove the head of the beacon from the base.
2. Mount the base part on the wall, using at list 2 of the 4 markings marked on the base.
3. Connect the cable according to the following diagram.
4. Replace the beacon. Make sure that the hole in the head part aligns with the hole in the base.
5. Turn the beacon clockwise to the base, making sure that the terminals are tight.

Warning: The part indicated with A above should be mounted with its direction facing upwards when being attached to the wall.

Warning: All external connections must be made using fire-resistant shielded cables.



Warning: The product only works with Teknim Intelligent Addressable Fire Alarm panels.



**earth connection can be connected to the terminal on the base*

Test

1. TFS-2282 sounder and beacon tests can be done in the menu of Teknim Intelligent Addressable Fire Alarm panels.
2. Check if sounder error occurs when panel is operated.
3. If sounder and beacon error, make sure the connections are made correctly.
4. If no sounder and beacon error, move the panel to the test position from the menus.
5. Run the sounder and beacon test. Observe the sounder and beacon during the test period.
6. If the devices continuous sound and warning lights beacon during the test, the test is completed.

Manufacturer and Service

CE

1922

Teknim Elektronik San. ve Tic. A.Ş.
Dudullu Organize Sanayi Bölgesi 1.Cadde İsmet Tarman İş Merkezi
No:1 Daire:32 Ümraniye-İSTANBUL
25
1922-CPR-2460

EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006
and
EN 54-17:2005; EN 54-17:2005/AC:2007

and

EN 54-23:2010

Fire detection and fire alarm systems. Fire alarm devices. Sounders.
Short-circuit isolators. Visual Alarm Devices.

TFS-2282

Technical data: see BİLGİ-TEC-241220 held by the manufacturer.

TSE
09254-TSE-13/01

TS EN 54-3 / 22.04.2004 - TS EN 54-3/A2 / 20.02.2007
TS EN 54-23 / 09.11.2010
TS EN 54-17 / 20.07.2006 - TS EN 54-17/AC / 22.05.2008

Manufacturer and Service

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* 2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



* Under Turkish regulation, the list annexed to the Regulation on After-Sales Services, published in the Official Gazette of Turkey No. 29029 on June 13, 2014, specifies that the economic lifespan determined by the Ministry is 5 years.