TFS-4192

Conventional Fire Alarm Sounder and Beacon Installation & User Manual

teknim®

Release Date: 25/07/2024
Rev. Date: - Rev. No:00
Doc. Ref.: HM.Z.KLV.8424

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.

Sub Models

TFS-4192R	Conventional Fire Alarm Sounder With Beacon (Red)
TFS-4192W	Conventional Fire Alarm Sounder With Beacon (White)

Technical Specifications

Power Input	24VDC – 27VDC
Leds	Wide Angle 13 Bright LED (Red & White)
Beacon Rate	0,5/1 Hz
IP Class	IP21C
Operating Temperature Range	-10°C ~ +55°C
Humidity	@ +40°C between %0 to %95 Max
Sound Level	100 dB±5 dB (@1meter,24Vdc)
Sound Tone	24 Different Tone
Play Mode	Sounder and Beacon / Only Beacon / Only Sounder
Dimensions (Base Included)	Ø:106,6mm, h:69.5mm
Housing Material	UL94 V-0 flame-retardant material (Red, Transparent)
Used Cable Cut	Shield fire cable (0.8mm ² ~ 2.5mm ²)
Weight (Base Included)	210 gram
Piezo	Piezo with leakproof seal
Coverage Area	W-2,4-5
Usage Area	Internal use in building / Type A device

** Hing Sounder Volume 102 dB±5 dB (@1meter,27Vdc)*

Alarm Current Consumption

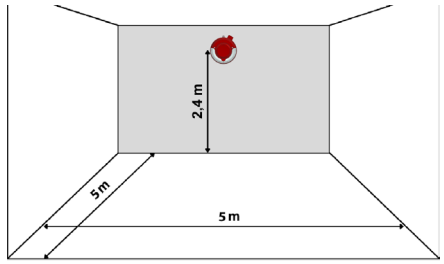
Beacon Rate	TFS-4192W	TFS-4192R	Coverage Area
0,5 Hz	19 mA	28 mA	W-2,4-5
1 Hz	24 mA	40 mA	W-2,4-5

**The current consumptions are as above when the default sound mode is active.*

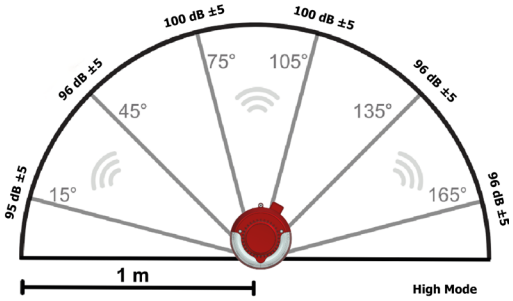
Terminals

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

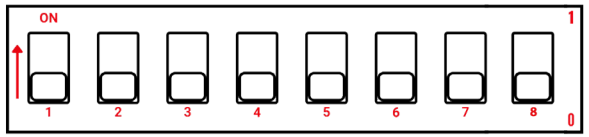
Wall Mounted Device Demonstration



Weighted Sound Level Shape



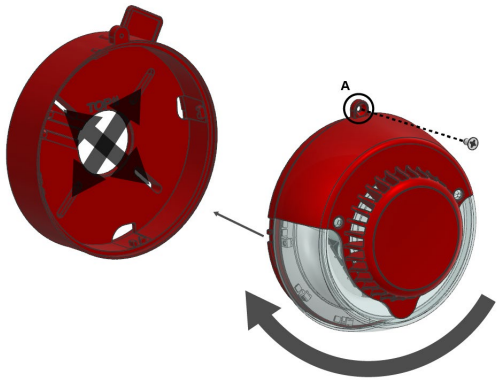
Supported Tone Modes



POSITION	SW6	SW7	SW8
ON(1)	High Mode sounder	Beacon Rate 1Hz	Beacon OFF
OFF(0)	Default Mode sounder	Beacon Rate 0.5Hz	Beacon ON

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

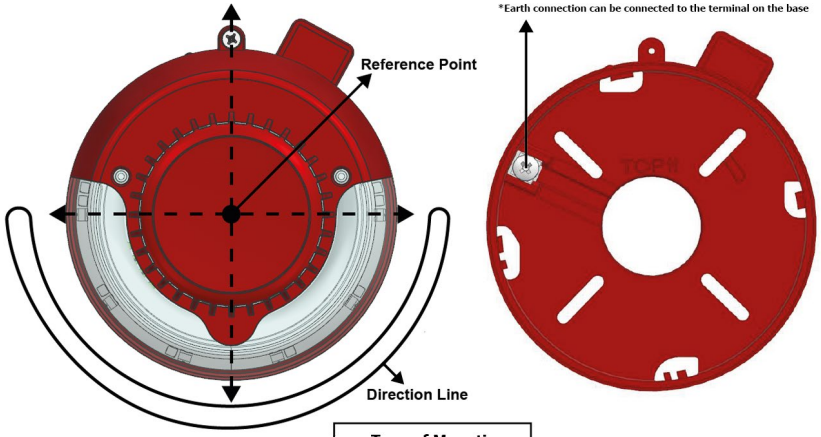
Mounting and Connection



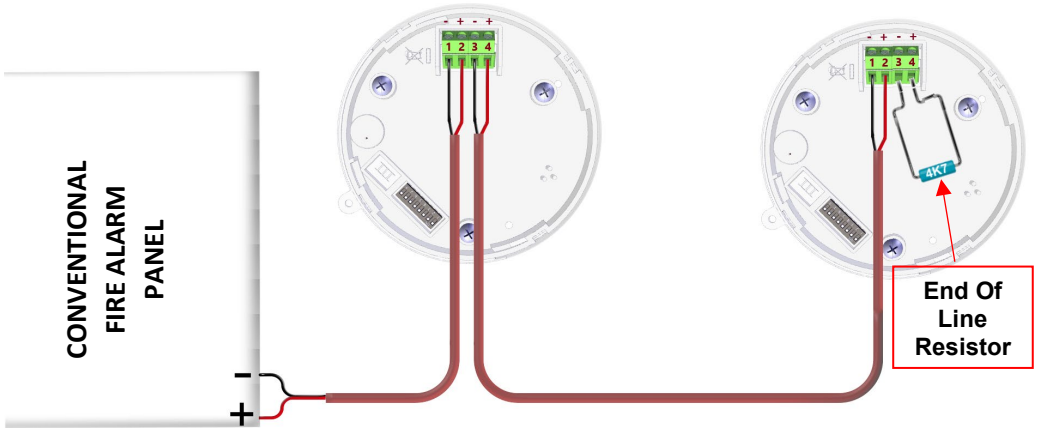
1. Remove the head of the Beacon from the base.
2. Mount the base part on the wall, using at list 2 of the 4 markings marked on the base.
3. Connect the cable according to the following diagram.
4. Replace the Beacon. Make sure that the hole in the head part aligns with the hole in the base.
5. Turn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



Type of Mounting



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

Test

1. Check if the sounder fault occurs when the panel is started.
2. Make sure that the connections are made correctly if the sounder is faulty.
3. If the sounder does not give a fault and the panel supports it, bring it to the panel test position.
4. Run the sounder test. During the test period, listen to the sounder sound or see that the Beacon is working.
5. During the test, if the device sounds uninterrupted and the warning lights are blinking, the test is complete.

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-2446

EN 54-23:2010
EN 54-3:2001, EN 54-3:2001/A1:2002, EN 54-3:2001/A2:2006;

Fire detection and fire alarm systems. Fire alarm devices. Sounders and Visual alarm devices.

intended for use in and around buildings
Duration of operation: Pass
Provision for external conductors: Pass
Flammability of materials: Pass
Enclosure protection: Pass
Access: Pass
Manufacturer's adjustments: Pass
On-site adjustment of behaviour: Pass
Requirements for software controlled devices: Pass
Coverage volume: Pass

Variation of light output: Pass
Minimum and maximum light intensity: Pass
Light colour: Red / White
Light temporal pattern / frequency of flashing: Pass / 1Hz %10 Duty
Marking and data: Pass
Synchronization: Pass
Durability:
Temperature resistance: Pass
Humidity resistance: Pass
Shock and vibration resistance: Pass
Corrosion resistance: Pass
Electrical stability: Pass

TFS-4192R, TFS-4192W

Technical data: see BİLGİ-TEC-240724-2 held by the manufacturer.

TSE
09254-TSE-12/01

TS EN 54-3 / 22.04.2004 - TS EN 54-3/A2 / 20.02.2007
TS EN 54-23 / 09.11.2010

Manufacturer and Service

Teknim Elektronik San. ve Tic. A.Ş.
Dudullu Organize Sanayi Bölgesi 1.Cadde İsmet Tarman İş Merkezi
No:1 Daire:32 Ümraniye-İSTANBUL
Telephone: +90 216 455 88 46 **Fax:** +90 216 455 99 06

www.teknim.com sales@teknim.com support@teknim.com

* 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.