TFBASE-SIREN

Base with acoustic signalling device





Detector mounting base with integrated acoustic signalling device. The base can be used to host Tecnofire addressable detectors. Base and detector share the same programming menu, but have no operational interdependence.

The activation of the acoustic signal is subject to the result of the management formula associated with the detector. The silencing of the acoustic signal depends on the operating criterion used. Programmable functions: 8 sound modes, volume adjustment 2 levels, 3 operating criteria. RSC® management: programming, remote management and control. Protection rating IP22. Polycarbonate V0 casing. White colour. Dimensions (D x H) 108 x 52mm. Approved EN 54-3:2001 + A1:2002 + A2:2006. Certification: 1293-CPR-0906.

MODEL		RSO	EN 54-3	SOUND LEVEL 96dB(A)	OPERATOR FORMULA	PC VO BOX
Name	Item no.			@1m		вох
TFBASE-SIREN	TF6TFBASESIREN					

OBLIGATIONS AND NOTICES

The TFBASE-SIREN mounting base can only be used when connected to a detection loop of compatible Tecnofire control panels.

The TFBASE-SIREN meets the requirements of EN 54-3 and EN 60529 only when installed with compatible Tecnofire detectors.

The applicable standards must be observed and applied during the design and installation.

GENERAL

The TFBASE-SIREN incorporates an acoustic signalling device that is particularly suitable for the diffusion of acoustic alarms in small spaces with a high level of acoustic insulation, such as hotel rooms, small offices, toilets, etc.

The TFBASE-SIREN emits an alarm at a sound level suitable for the application context.

GENERAL INSTRUCTIONS FOR USE

In the event of an alarm, the perceived sound level in the room must be 5 dB(A) higher than the ambient noise.

The perceived sound level of the room occupants must be between a minimum of $65 \, dB(A)$ and a maximum of $120 \, dB(A)$. In hotel rooms in particular, the perceived noise level at the head of the bed must be $75 \, dB(A)$.

ALARM REPEATER

An optical alarm repeater can be connected to the TFBASE-SIREN; the repeater must be a Tecnofire TFRIP. Attention, repeaters of other brands can modify the correct functioning of the TFBASE-SIREN.

RELATION BETWEEN TFBASE-SIREN AND DETECTOR

From a functional point of view, there is no logical interdependence between the TFBASE-SIREN and the detector. The detector and the TFBASE-SIREN share the identifier (line number + detector number) and the programming parameters that define the operation of the TFBASE-SIREN.

The parameters are included in the programming menu of the detector.

PROGRAMMING The TFBASE-SIREN shares the detector programming menu The TFBASE-SIREN shares the host detector identifier: Loop x - Detector xxx The operation of the TFBASE-SIREN and the detector have no interdependent relationship

TFBASE-SIREN



FACTORS INFLUENCING ACOUSTIC PERFORMANCE

Preliminary note: The fire alarm signal must reach everyone in the building at an adequate sound level.

When designing, it is important to assess the sound propagation in the building, taking into account differences in height and compartmentalisation.

It is preferable to distribute the acoustic warning devices in a capillary manner rather than using a few high-powered sounders.

However, for each installation environment it is necessary to assess all environmental factors that may reduce or increase the acoustic performance of the warning device.

Among these, it is important to assess the level of background noise generated by the environment and its occupants.

The level of ambient background noise will vary from building to building, depending on the intended use and architectural design.

For design purposes, it is necessary to carry out phonometric measurements that provide objective values of the background noise levels in rooms.

However, it is not always possible to carry out this activity before the project is drawn up.

To overcome this drawback, it is possible to use tables that indicate the typical background noise level, expressed in dB(A), for different types of building.

These tables give a range of values between minimum and maximum.

To carry out a proper evaluation and draw up a good project, always refer to the technical report UNI/TR 11607.

CONNECTION TO THE LOOP

It is mandatory to connect the TFBASE-SIREN according to the connection scheme.

For reasons of electrical safety and to avoid induced interference, the cable shield of each loop must be connected in continuity from one device to the next, so that it is never interrupted.

In turn, the cable shields of each loop must be connected in continuity from one loop to the next.

Finally, the end of the shielding series must be connected inside the control panel cabinet at the point indicated for connecting

the shields to earth.

PROGRAMMING PARAMETERS

The operating mode of the acoustic device integrated in the TFBASE-SIREN is defined by the programming of two parameters associated with the detector: the operating criterion and the management formula.

Operating criterion

The operating criterion defines who or what triggers the silencing of the TFBASE-SIREN.

With the "Acknowledgeable or Siren" option, the control panel "ACK" command silences the TFBASE-SIREN alarm.

With the "Not acknowledgeable" option, the control panel "RESET" command silences the alarm of the TFBASE-SIREN.

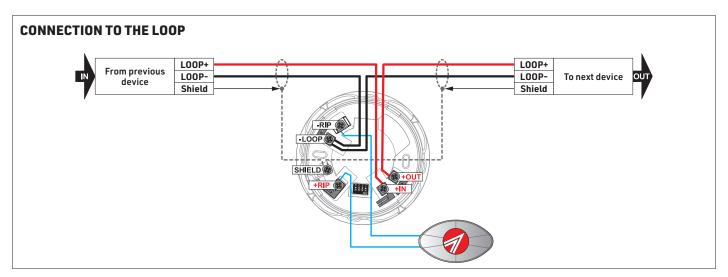
Management formula

The formula defines who or what causes the TFBASE-SIREN to be activated.

EXAMPLES OF MANAGEMENT FORMULAS						
Loop (Lx) Detector (Sx)	Management formula associated with the TFBASE-SIREN	TFBASE-SIREN in alarm if				
L1S1	L1S1 - Formula xx aL1S1 aL1S2 aL1S3	Alarm of L1S1 or Alarm of L1S2 or Alarm of L1S3				
L1S2	L1S2 - Formula xy aL1S1	Alarm of L1S1				
L1S3	L1S3 - Formula xy aL1S3	Alarm of L1S3				

TFBASE-SIREN TEST

The 'Sensor Function Test' menu contains the 'Activate' function which allows the TFBASE-SIREN function test to be started. When the function is activated, the TFBASE-SIREN activates an audible signal which remains active until the function is deactivated.





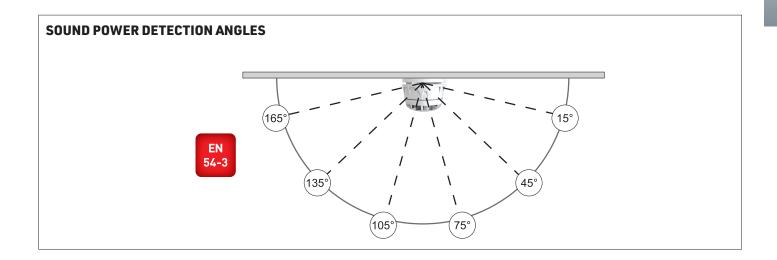
SOUND MODES

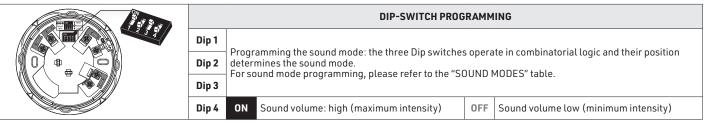
The table shows the characteristics of each of the 8 available sound modes: description, frequency and development of the sound, conformity to standards, sound levels measured at the angles indicated in the emission plan and maximum sound level with 30V DC power supply.

The last column of the table shows the programming of dip-switches 1, 2 and 3 for each sound mode.

Dip-switch 4 can be used to adjust the acoustic intensity of the signal by programming the volume to high or low.

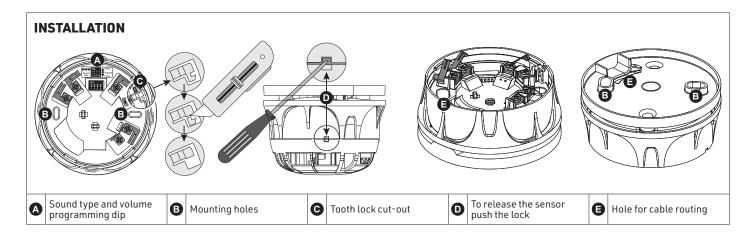
Mode	Description	Development		Standard		Sound level dB @21V DC High volume					Maximum sound level	DIP-SWITCH		
Mode	Description	Development	Standard		15°	45°	75°	105°	135°	165°	@30V DC	1	2	3
1	TECNOFIRE Alarm	Sweeep (353Hz1950Hz) in 1000ms + 0FF x 50ms	7	Tono di default	83	81	86	87	85	88	91	OFF	OFF	OFF
2	TECNOFIRE Technical alarm	Sweep (445Hz590Hz) in 1000ms + OFF x 50ms	1		83	78	83	84	85	87	91	ON	OFF	OFF
3	DIN & PFEER Evacuation tone	1200Hz500Hz in 1000ms + 10ms off		DIN PFEER	84	80	84	86	86	89	93	OFF	ON	OFF
4	Prealarm TECNOFIRE (4 pulse tones)	ON 1050Hz x 100ms + 0FF x 50ms + ON 1300Hz x 200ms + 0FF x 50ms + ON 1600Hz x 100ms + 0FF x 50ms + ON 1900Hz x 200ms + 0FF x 50ms	7		89	87	87	89	91	95	97	ON	ON	OFF
5	French alarm tone AFNOR	ON 440Hz x 400ms + On 554Hz x 100ms		NF S 32-001	80	75	81	83	82	85	89	OFF	OFF	ON
6	British standard	ON 800Hz x 500ms + ON 970Hz x 500ms		BS 5839 Pt1	85	82	88	91	91	92	96	ON	OFF	ON
7	Prealarm signalling UNI 11744	Sweep (800Hz970Hz) in 1000ms + 0ms 0FF		UNI 11744 BS5839 Pt1	84	82	86	86	86	90	94	OFF	ON	ON
8	Evacuation alarm signalling UNI 11744	Continuous tone 970Hz		UNI 11744 BS5839 Pt1	82	79	88	90	90	93	96	ON	ON	ON
Sour	Sound level dB@21V DC Notes - Sound modes 7 and 8 comply with UNI 11744 (April 2019). The sound levels were measured at the angles indicated, at a distance of 1 metre, with the High Dip4 volume control set to 0n and the unit powered at 21V. With the volume control set to Low sound volume, a maximum attenuation of 3dB is obtained. The attenuation varies according to the sound mode and emission angle.													





TFBASE-SIREN - DATA SHEET - REL. 1.0

TFBASE-SIREN



Accessories



TFRIP-R

Optical repeater, red LED. 360° visibility. Surface mounting. ABS casing. IP22. White colour. Dimensions (L x H x D) 78 x 45 x 25mm.

Item no. TF3TFRIPR



TFRIP-SMART

Smart optical repeater, red LED. 360° visibility. Formula-managed signaling. 3 wire connection to detector. ABS casing. IP22. Colour white. Dimensions (W x H x D) 78 x 45 x 25mm.

Item no. TF3TFRIPSMART



TFRIP-RINC

Optical repeater, red LED. 360° visibility. Flush mounting. Protection rating IP67.

Item no. TF3TFRIPRINC

Technical and functional specifications

TFBASE-SIREN	Base with acoustic signaling device	General information	
Type A (for indoors)	Area of use		
Max. 96dB(A) @ 1m	Sound level	Acoustic	
Number 8	Main sound frequency (compliant with EN 54-3)	characteristics	
3 modes	Functioning criterions		
8	Acoustic signalling modes	Programmable	
2 settings	Acoustic volume adjustment	functions	
It can be controlled by the formula	Device activation		
Over Loop	Power supply		
24V DC	Nominal voltage		
21V30V DC	Operating voltage	Electrical specifications	
120μA @ 24V DC	Consumption in stand-by		
Low volume 2,5mA @ 24V DC	Maximum absorption in		
High volume 3,5mA @ 24V DC	signalling		

	Operating temperature	-15°C+70°C
	Relative humidity (non-condensing)	10%93%
Physical	Protection class	IP22 (EN 60529)
specifications	Casing	PC V0
	Dimension (D x H)	108 x 52mm
	Weight	142g
	Standards	EN 54-3:2001 +A1:2002 +A2:2006
	System compatibility	EN 54-13:2020
0	Certification number	1293-CPR-0906
Conformity	Year of CE marking	24
	Number of declaration of performance	054_TFBASE-SIREN
	Notified body	EVPU

The TFBASE-SIREN meets EN 54-3 and EN 60529 requirements only when used in conjunction with a mounted detector

N.B. Declarations of conformity and performance are available on www.tecnofiredetection.com









