TFBASE-SOUNDER

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 35mm.

Approved EN 54-3:2001 + A1:2002 + A2:2006. Certification: 1293-CPR-0558.

МО	DEL	R	33	EN 54-3	SOUND LEVEL 81dB(A)	OPERATOR FORMULA	PC V0 BOX
Name	Item no.				@1m		вох
TFBASE-SOUNDER	TF6TFSOUNDERN						

OBLIGATIONS AND NOTICES

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

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

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

GENERAL

The TFBASE-SOUNDER 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-SOUNDER 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-SOUNDER; the repeater must be a Tecnofire TFRIP. Attention, repeaters of other brands can modify the correct functioning of the TFBASE-SOUNDER.

RELATION BETWEEN TFBASE-SOUNDER AND DETECTOR

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

RELATION BETWEEN TFBASE-SOUNDER AND DETECTOR TFBASE-SOUNDER **DETECTOR** The TFBASE-SOUNDER shares the detector PROGRAMMING programming menu The TFBASE-SOUNDER shares the host detector **IDENTIFIER** identifier: Loop x - Detector xxx The operation of the TFBASE-SOUNDER and the OPERATION detector have no interdependent relationship



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-SOUNDER 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-SOUNDER 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-SOUNDER.

With the "Acknowledgeable or Siren" option, the control panel "ACK" command silences the TFBASE-SOUNDER alarm. With the "Not acknowledgeable" option, the control panel "RESET" command silences the alarm of the TFBASE-SOUNDER.

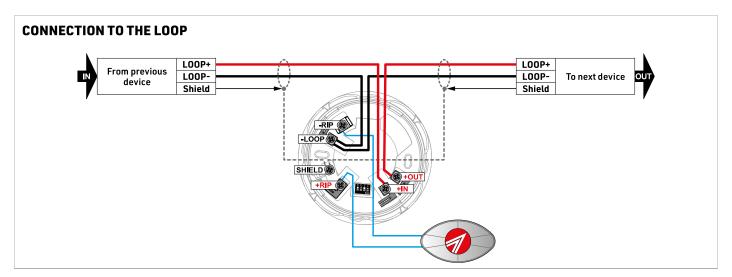
Management formula

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

EXAMPLES OF MANAGEMENT FORMULAS							
Loop (Lx) Detector (Sx)	Management formula associated with the TFBASE-SOUNDER	TFBASE-SOUNDER 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-SOUNDER TEST

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



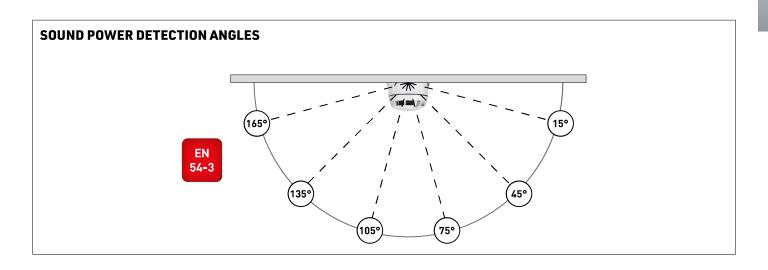


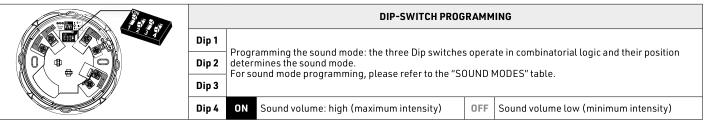
SOUND MODES

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.

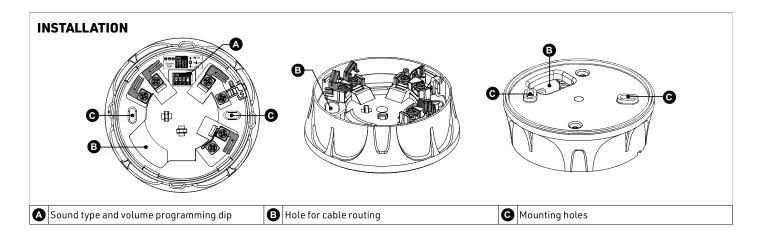
The last column of the table shows the programming of dip-switches 1, 2 and 3 for each sound mode. Dip-switch 4 can be used to adjust the acoustic intensity of the signal by programming the volume to high or low.

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	78	78	79	80	79	77	80	OFF	OFF	OFF
2	TECNOFIRE Technical alarm	Sweep (445Hz590Hz) in 1000ms + OFF x 50ms	1		78	76	78	77	76	74	79	ON	OFF	OFF
3	DIN & PFEER Evacuation tone	1200Hz500Hz in 1000ms + 10ms off		DIN PFEER	79	76	76	76	76	77	83	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		76	82	81	78	79	77	82	ON	ON	OFF
5	French alarm tone AFNOR	ON 440Hz x 400ms + On 554Hz x 100ms		NF S 32-001	77	75	76	75	75	73	78	OFF	OFF	ON
6	British standard	ON 800Hz x 500ms + ON 970Hz x 500ms		BS 5839 Pt1	75	78	78	79	78	73	80	ON	OFF	ON
7	Prealarm signalling UNI 11744	Sweep (800Hz970Hz) in 1000ms + 0ms 0FF		UNI 11744 BS5839 Pt1	79	74	73	72	72	75	83	OFF	ON	ON
8	Evacuation alarm signalling UNI 11744	Continuous tone 970Hz		UNI 11744 BS5839 Pt1	72	65	65	71	68	73	78	ON	ON	ON
Soui	Notes - Sound modes 7 and 8 comply with UNI 11744 (April 2019) and are available from Firmware version 1.7. 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-SOUNDER - DATA SHEET - REL. 2.0



Accessories



TFRIP-R

Optical repeater, red LED. 360° visibility. Surface mounting. ABS casing. IP22. White colour. Dimensions (Lx 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

General	Base with acoustic signaling device	TFBASE-SOUNDER			
information	Area of use	Type A (for indoors)			
Acoustic	Sound level	Max. 81dB(A) @ 1m			
characteristics	Main sound frequency (compliant with EN 54-3)	Number 8			
	Functioning criterions	3 modes			
Programmable	Acoustic signalling modes	8			
functions	Acoustic volume adjustment	2 settings			
	Device activation	It can be controlled by the formula			
	Power supply	Over Loop			
	Nominal voltage	24V DC			
	Operating voltage	21V30V DC			
Electrical specifications	Consumption in stand-by	120µA @ 24V DC			
	Maximum absorption in	Low volume 2,5mA @ 24V DC			
	signalling '	High volume 3,5mA @ 24V DC			

1	Operating temperature	-15°C+70°C
	Relative humidity (non-condensing)	10%93%
,	Protection class	IP22 (EN 60529)
specifications	Casing	PC VO
	Dimension (D x H)	108 x 35mm
,	Weight	87g
	Standards	EN 54-3:2001 +A1:2002 +A2:2006
	System compatibility	UNI EN 54-13:2020
	Certification number	1293-CPR-0558
Conformity	Year of CE marking	17
	Number of declaration of performance	022_TFBASE-SOUNDER
!	Notified body	EVPU

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

 $N.B.\ Declarations\ of\ conformity\ and\ performance\ are\ available\ on\ www.tecnofired etection.com$











The product features can be subject to change without notice.