

## Fire alarm sounders



### TFS10 TFSL20



Signalling device for Fire Alarm, two versions: Acoustic only (TFS10) or Optical / Acoustic (TFSL20)  
Two command inputs for two alarm modes.  
Surface mount wall installations. Sound pressure 105dB (A) @ 1m.  
Programming: 32 alarm tones. 4 sound intensity levels.  
Maximum absorption in signalling 4mA or 14.5 with active flash. Operating temperature -10 ° C + 55 ° C.  
Degree of protection IP21 for indoors or IP65 for outdoors.  
ABS container V0. Overall dimensions (H x W x L) 45 x 109 x 121 mm. EN 54-3 / 23.  
Approval certificate 1328 CPR - 0756/0763.

Code: TF7TFS10/SL20

### Key Benefits

- Power supply 9V d.c. to 60V d.c.
- Sound pressure (max) 105 dB (A) @ 1m
- 32 selectable tones
- 2 externally controllable tones
- 2 high brightness white LEDs
- Innovative design, reduced thickness
- Wall mounting
- IP21 and IP65 versions
- Acoustic component EN54-3 with tones certified according to UNI11744
- Optical component EN54-23 settable for W-3 or W-4-9 applications.



### Applications

The **TFS10** and **TFSL20** wall sirens are fire alarm devices with a unique, slim and aesthetically elegant design with the lowest height dimension, this thanks to the completely redesigned and patented acoustic profile.

### Description

The **TFS10** is an EN54-3 approved siren with high sound pressure (up to 105dB) suitable for both private and industrial environments, in the **TFS10-WP** version with IP65 protection degree. The device manages up to 2 tones, which can be controlled externally and can be selected from the 32 available on board, among which the Pre-alarm and Alarm tones are already present as required by the UNI11744 standard.

Despite the remarkable power and watertightness, this siren absorbs only 4mA, making it one of the best performing on the market.

The **TFSL20** version adds the optical component to the device, via two EN54-23 certified white LEDs with a wide coverage while maintaining low consumption (less than 15mA), with an intrinsic self-synchronization system of the device. The optical cover, type W-3-7 or W-4-9 (on the wall) has two settings and provides for applications up to 4 m in height. The optical-acoustic version also has the IP65 version in the **TFSL20-WP** model.

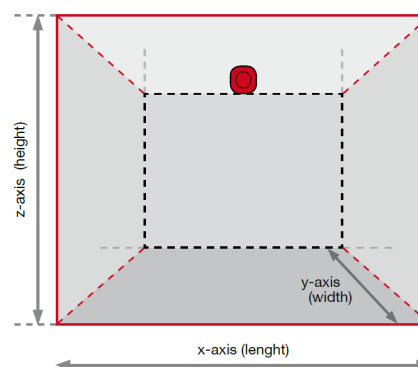
## Fire alarm sounders

### Optical Volume EN54-23

An EN54-23 class W-X-Z device can cover a cube with Z height and width and X depth around the device placement (as shown in the figure). According to the standard, the device must be able to illuminate all solid surfaces with at least 0.4 effective lux, which can be calculated with the following equation:

$$I_{eff} = \frac{\int_{T_1}^{T_2} I(t) dt}{0.2 + (T_2 - T_1)}$$

	z (height)	x and y (length and width)
W3-7	3 m	7 m
W4-9	4 m	9 m



### Technical Specifications

Items	TFS10	TFSL20
Description	Wall sounder VID, for indoor (TFS10) or out door (TFS10-WP)	Wall sounder VAD, for indoor (TFSL20) or out door (TFSL20-WP)
Standard	EN54 3 with UNI 11744 tones	EN54 3 / 23 with UNI 11744 tones and UNI11607 synchronism
Order codes	TFS10: TF7TFS10 TFS10-WP: TF7TFS10WP	TFSL20: TF7TFSL20 TFSL20-WP: TF7TFSL20WP
<b>Electrical specifications</b>		
Power Supply	9Vdc to 60Vdc	9Vdc to 60Vdc
Current consumption	4,00 mA (high volume) 2,30 mA (middle-high volume) 1,30 mA (middle-low volume) 1,00 mA (low volume)	14,50 mA (high Led power 0,5Hz and high volume) 12,50 mA (low Led power 0,5Hz and low volume)
Tones	32 selectables Tone 1 continuos - Alarme/Evac Tone 3 alternate - Prealarme	32 selectables Tone 1 continuos - Alarme/Evac Tone 3 alternate - Prealarme
Acoustic pressure	4 Levels 92 to 105db@1m	4 Levels 92 to 105db@1m
Optical cover	N/A	W 4-9 High cover W 3-7 Low cover
Blinking frequency	N/A	0,5 Hz Low frequency 1 Hz High frequency
<b>Enviroment specifications</b>		
Operative temperature	-10°C to +55°C	-10°C to +55°C
Relative humidity	95% RH	95% RH
<b>Physical Specifications</b>		
Plastic	ABS V0	ABS V0, V2 PC lens
Colour	Red	Red
Led EN54 23	N/A	2 White
Dimensions (HxPxL) mm	TFS10 45x109x121 TFS10-WP 63x118x121	TFSL20 45x109x121 TFSL20-WP 63x118x121
Weight	103g	232g
Protection	TFS10 IP21 TFS10-WP IP65	TFSL20 IP21 TFSL20-WP IP65
Cable entry	TFS10 back only TFS10-WP back and side	TFSL20 back only TFSL20-WP back and side
Cable dimensions	0,5 to 2,5 mmq	0,5 to 2,5 mmq