

PSD-S 50 AE SM8-1 95DB/1

Siren element, 8 tones, 24 V DC, max. 95 dB

Data sheet
109287_en_01

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1 Description

This audible signal element is designed as a component of a modular signal tower.

According to your requirements, a signal tower may comprise any combination of up to five signal elements. You may use up to five optical signal elements or up to four optical and one audible signal element.

Only use an audible signal element as the top element.

A bayonet locking system establishes the mechanical and electrical connection between the elements.

Connection elements are available for the installation of the signal tower.

Features

- Siren element for 24 V DC
- Volume can be adjusted using potentiometer
- Tone function can be adjusted using DIP switch
- Degree of protection: IP65, when mounted

Features

- Multi-tone siren signaling depending on the situation
- Eight tone functions can be set via DIP switches
- Adjustable volume
- Min. volume of 92 dB(A)
- Continuous tone with periodically increasing tone frequency (sweep: 1 kHz to 3.5 kHz)



Make sure you always use the latest documentation.
It can be downloaded from the product at phoenixcontact.net/products.

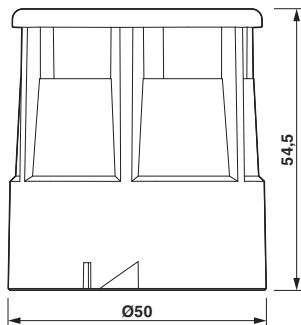
2	Table of contents	
1	Description	1
2	Table of contents	2
3	Ordering data	3
4	Technical data	3
5	Set the volume and the tone type	5
6	Example of a signal tower	6
7	Assembly notes for a signal tower	6
8	Mounting the individual elements	6
9	Example for signal tower dimensions	7

3 Ordering data

Description	Type	Order No.	Pcs./Pkt.
Siren element, 8 tones, 24 V AC/DC, max. 95 dB, 8 tones selectable by DIP switch, black	PSD-S 50 AE SM8-1 95DB/1	1018874	1
Accessories	Type	Order No.	Pcs./Pkt.
Base for horizontal and third-party tube assembly	PSD-S 50 CE	1018740	1
Base with integrated M12 male (5 pins)	PSD-S 50 CE-M12-5P	1018853	1
Base for NPT 1/2 conduit assembly	PSD-S 50 CE A-NPT 1/2	1018850	1
Base for vertical assembly	PSD-S 50 CE BR-SM/HCR	1018742	1
Tube base on 100 mm plastic tube with integrated foot	PSD-S 50 CE BT 100	1018760	1
Tube base on 250 mm aluminum tube with plastic foot	PSD-S 50 CE BT 250-M	1018801	1
Tube base on 400 mm aluminum tube with plastic foot	PSD-S 50 CE BT 400-M	1018845	1

4 Technical data

Dimensions (in mm)



Diameter	50 mm
General data	
Material	Polycarbonate PC
Color	black
Weight	40 g
Ambient temperature (operation)	-30 °C ... 60 °C
Mounting position	any
Electrical data	
Input voltage	24 V DC
Input voltage	16 V DC ... 26 V DC
Inrush current	max. 250 mA
Current consumption	max. 35 mA
Type of acoustic signal	8 tones, adjustable volume

Electrical data

Volume	95 Db
Service life, electrical	min. 5,000 h
Operating time	100 %

Approvals/conformities

Conformance with EMC Directive 2014/30/EU

For the latest approvals, please visit phoenixcontact.net/products.

5 Set the volume and the tone type

Disconnect the power to the signal tower before changing the tone!

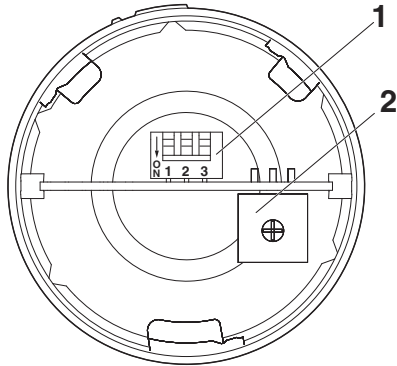


Figure 1 DIP switch (1) and potentiometer (2)

Setting the volume via potentiometer

Set the volume via the potentiometer.

The maximum volume is 95 dB(A) at 3.9 kHz.

The minimum volume is 75 dB(A) at 3.9 kHz.

Set tone type using the DIP switch

Set the tone type using the DIP switch.

Possible tones

DIP switch			Tone type	Tone frequency
1	2	3		
OFF	OFF	OFF	Continuous tone	1.35 kHz
ON	OFF	OFF	Continuous tone	1.35 kHz
OFF	ON	OFF	Pulse tone (4 Hz)	1.35 kHz
ON	ON	OFF	Pulse tone (4 Hz)	1.35 kHz
OFF	OFF	ON	Sweep* (1 Hz)	0.8 kHz ... 1 kHz
ON	OFF	OFF	Sweep* (1 Hz)	0.8 kHz ... 1 kHz
OFF	ON	ON	alternating (2 Hz)	0.8 kHz ... 1 kHz
ON	ON	ON	Sweep* (1 Hz)	0.5 kHz ... 1.5 kHz

* Continuous tone with increasing tone frequency

6 Example of a signal tower

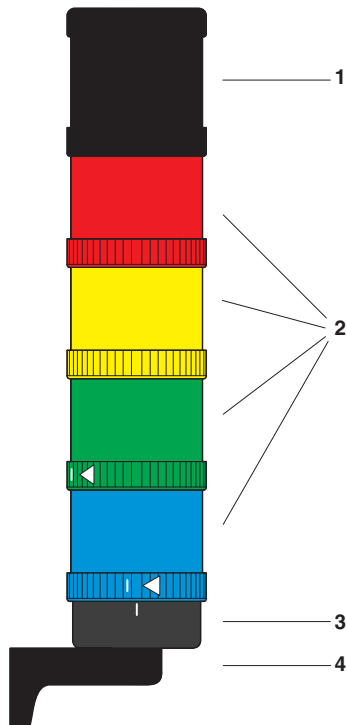


Figure 2 Example of a signal tower

Key:

- 1 Audible signal element
- 2 Optical signal element
- 3 Connection element
- 4 Assembly element

7 Assembly notes for a signal tower

- Only use a maximum of five elements within a signal tower.
- Use only one audible element in a signal tower and position this element on top.
- When closing the bayonet locking system, observe the markings (see "Assembling the individual elements").

8 Mounting the individual elements

Audible and optical signal elements are assembled in the same way. The illustration shows the assembly of two optical elements.

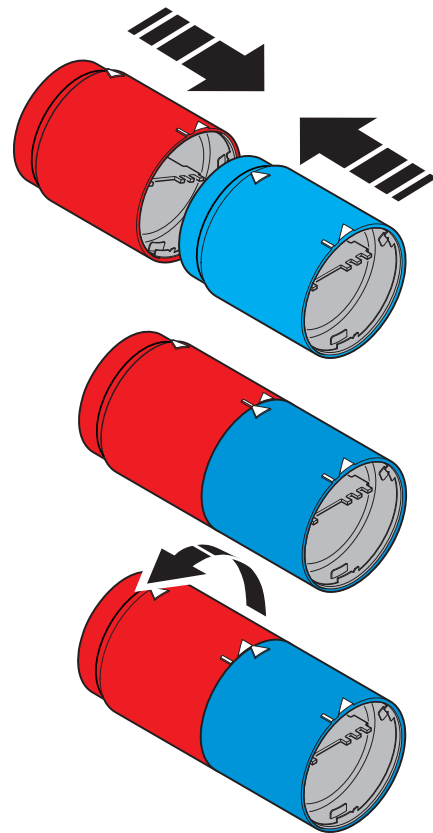


Figure 3 Mounting the individual elements

- Select the elements for your application.
- Connect the elements to be assembled so that the markings are aligned.
- Turn the upper element in the direction of the arrow.

9 Example for signal tower dimensions

The following figure shows the dimensions of a typical signal tower.

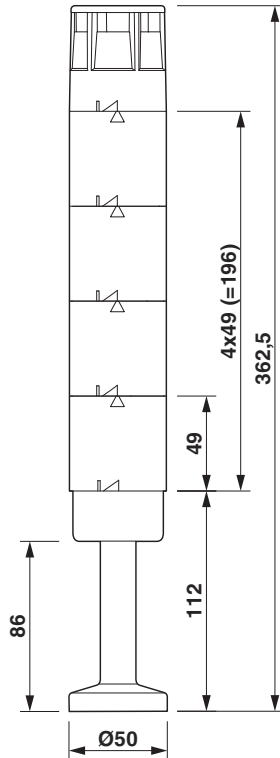


Figure 4 Dimensions of a signal tower (example)