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# PSD-S AE SP1-3 100DB/2

Siren element, pulse tone, 24 V DC,  
self-regulating volume, max. 100 dB(A)

## AUTOMATION

Data sheet  
7945\_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.

An audible signal element can be used as top element only.

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

Connection elements with spring-cage or screw connection can be used for electrical connection of the signal tower.

Mounting elements for base or tube mounting can be used to mount the signal tower.

#### Features

- Siren element for 24 V DC
- Pulse tone with self-regulating volume  
During signal pauses, the element measures the field volume and adjusts its volume accordingly.
- Maximum volume of 100 dB(A)
- Degree of protection: IP65, when mounted



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This data sheet is valid for all products listed on the following page:

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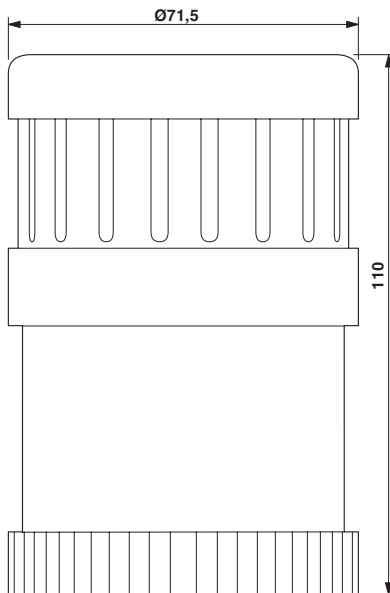
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### 3 Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Siren element, pulse tone, 24 V DC, self-regulating volume, max. 100 dB(A), black	PSD-S AE SP1-3 100DB/2	2700137	1

### 4 Technical Data

#### Dimensions (in mm)



Diameter	71.5 mm
Height	110 mm

#### General data

Material	Polycarbonate PC
Color	black
Weight	122 g
Ambient temperature (operation)	-20 °C ... 50 °C
Degree of protection	IP65, when mounted
Mounting position	Any

#### Electrical data

Input voltage	24 V DC
Inrush current	max. 500 mA
Current consumption	150 mA
Audible signal type	Pulse tone, self-regulating volume
Signal frequency	Approx. 1 Hz
Tone frequency	Approx. 2.5 kHz
Volume	80 dB(A) ... max. 100 dB(A)
Service life, electrical	min. 5,000 h
Operating time	100 %

**Approvals / conformities**

Conformance with EMC directive 2004/108/EC

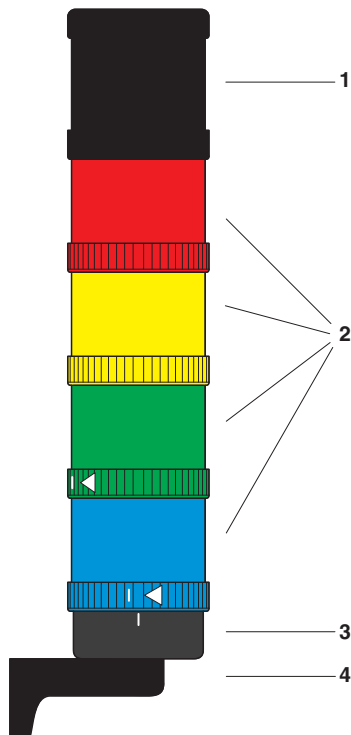
For the latest approvals, please visit [www.phoenixcontact.net/catalog](http://www.phoenixcontact.net/catalog).**5 Example of a signal tower**

Figure 1 Example of a signal tower

Key:

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

**6 Assembly notes for a signal tower**

- You may use up to five signal elements in 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").

## 7 Assembling the individual elements

The assembly of an audible and an optical signal element is identical. The figure illustrates the assembly of two optical elements.

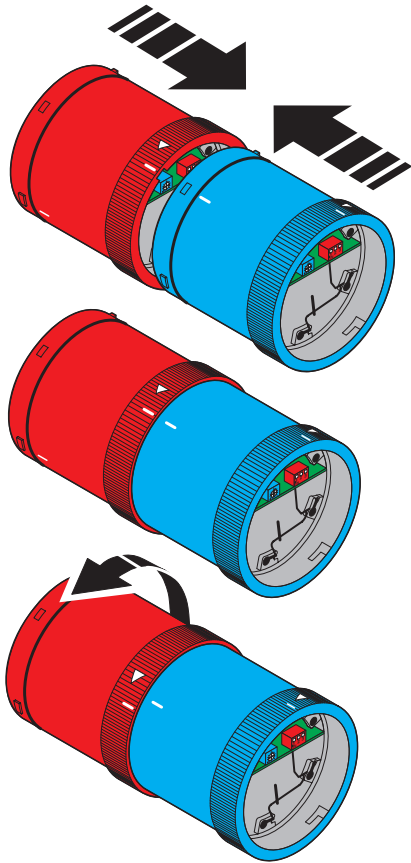


Figure 2 Assembling the individual elements

- 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.

## 8 Example for signal tower dimensions

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

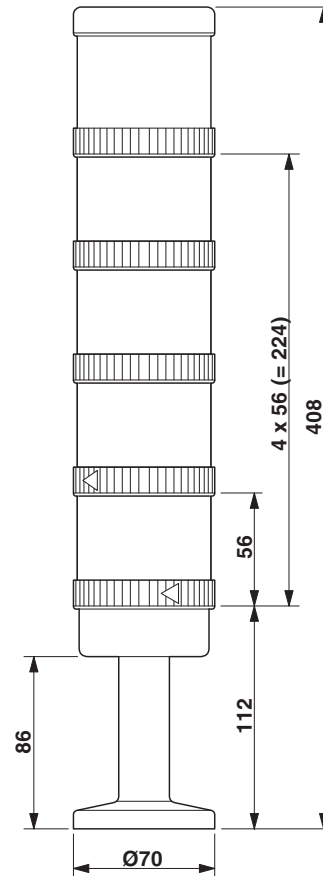


Figure 3 Dimensions of a signal tower (example)