

# PSD-S CE-TM SCREW

**Connection element with screw connection terminal blocks for tube mounting**

Data sheet  
7960\_en\_02

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## 1 Description

This connection element is provided as a component of a modular signal tower and facilitates the electrical connection of the 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.

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

### Features

- Connection element for the mounting on a tube (see accessories)
- Screw terminal block connection
- Degree of protection: IP65, when mounted



Make sure you always use the latest documentation.  
It can be downloaded from the product at [phoenixcontact.net/products](http://phoenixcontact.net/products).

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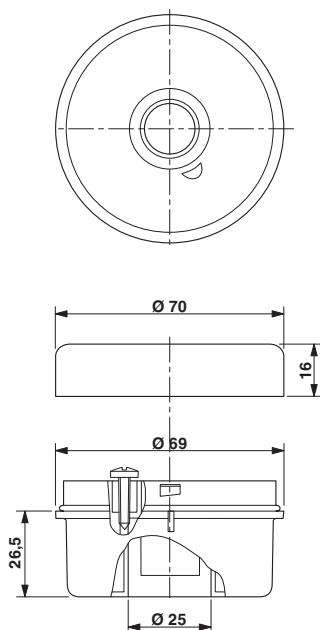
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### 3 Ordering data

| Description  | Type               | Order No. | Pcs./Pkt. |
|--|--------------------|-----------|-----------|
| Connection element with screw connection terminal blocks for tube mounting | PSD-S CE-TM SCREW  | 2700095   | 1         |
| Accessories  | Type               | Order No. | Pcs./Pkt. |
| Adapter for single-hole mounting   | PSD-S ME A-SH M18  | 2700150   | 1         |
| Foot with integrated tube, 110 mm long, black                              | PSD-S ME BT 110    | 2700156   | 1         |
| Tube, 250 mm long, Ø 25 mm   | PSD-S ME T-M 250   | 2700157   | 1         |
| Tube, 400 mm long, Ø 25 mm   | PSD-S ME T-M 400   | 2700158   | 1         |
| Tube, 1000 mm long, Ø 25 mm  | PSD-S ME T-M 1000  | 2700154   | 1         |
| Foot for tube Ø 25 mm, aluminium, black                                    | PSD-S ME B-M       | 2700164   | 1         |
| Foot for tube Ø 25 mm, plastic, black                                      | PSD-S ME B-P       | 2700163   | 1         |
| Tube, 45 mm long, Ø 25 mm, for direct tube mounting on the foldaway base   | PSD-S ME T-P 45    | 2700152   | 1         |
| Foldaway base, pitch 7.5°, black   | PSD-S ME FB        | 2700151   | 1         |
| Outlet box with lateral cable entry for floor and base mounting            | PSD-S ME OB        | 2700153   | 1         |
| Outlet box with magnetic base for base mounting, black                     | PSD-S ME OB/MB     | 2700155   | 1         |
| Angle for base mounting, concealed cable routing, black                    | PSD-S ME BR-BM/HCR | 2700149   | 1         |
| Angle for base mounting, black   | PSD-S ME BR-BM     | 2700143   | 1         |

### 4 Technical data

#### Dimensions (in mm)



|          |       |
|----------|-------|
| Diameter | 69 mm |
| Height   | 27 mm |

**General data**

|                                     |  |
|-------------------------------------|--|
| Material                            | PA-GF                                      |
| Color                               | black                                      |
| Weight                              | 84 g                                       |
| Ambient temperature (operation)     | -30 °C ... 50 °C                           |
| Degree of protection                | IP65, when installed                       |
| Mounting position                   | any  |
| Mounting type                       | Tube mounting                              |
| Connection                          | Rubber seal pre-installed for each element |
| Number of mountable signal elements | max. 5                                     |
| Scope of delivery                   | End cover and seal                         |

**Connection data (without ferrule)**

|   |   |
|---|---|
| Connection method                       | Screw connection                            |
| Conductor cross section, stranded       | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section, stranded [AWG] | 20 - 15                                     |
| Stripping length                        | 7 mm  |

**Connection data (With ferrule)**

|   |  |
|---|--|
| Connection method                       | Screw connection                             |
| Conductor cross section, stranded       | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section, stranded [AWG] | 23 - 15                                      |
| Stripping length                        | 7 mm   |

**Connection data (solid)**

|                                      |   |
|--------------------------------------|---|
| Connection method                    | Screw connection                            |
| Conductor cross section, solid       | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section, solid [AWG] | 20 - 15                                     |
| Stripping length                     | 7 mm  |

**Approvals / conformities**

Conformance with EMC directive 2004/108/EC and for low-voltage directive 2006/95/EC

For the latest approvals, please visit [phoenixcontact.net/products](http://phoenixcontact.net/products).

## 5 Mounting the connection element

Mount the connection element on a tube. The possible options are indicated in the ordering data under accessories.

For the mounting the connection element, proceed as described in the package slip.

For the connection of cables, proceed as described in the package slip.



Please refer to the package list for connection options. It is enclosed with the connection element and can be downloaded from the internet at [phoenixcontact.net/products](http://phoenixcontact.net/products).

## 6 Connecting the cables



### NOTE:

When working on the connection element, disconnect the power to the signal tower!

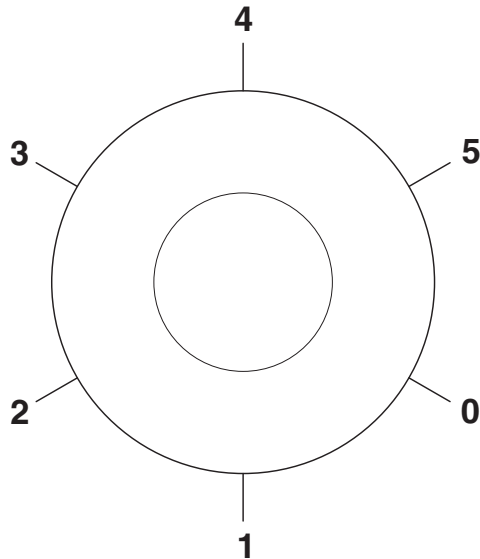


Figure 1 Connections in the connection element

| Connection | Meaning                         |
|------------|---------------------------------|
| 0          | Reference potential (GND, N)    |
| 1          | Control of the signal element 1 |
| 2          | Control of the signal element 2 |
| 3          | Control of the signal element 3 |
| 4          | Control of the signal element 4 |
| 5          | Control of the signal element 5 |



When using the audible elements "siren element, 7 tones..." or "voice output element", several control lines are needed for the audible element, as the case may be. In this case, please note the entries in the corresponding data sheet or in the package slip.

## 7 Example of a signal tower

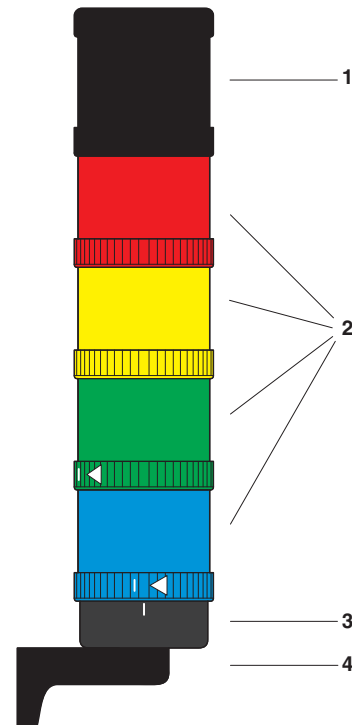


Figure 2 Example of a signal tower

### Key:

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

## 8 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 connecting the bayonet locking, please note the markings (see "Assembly of the individual elements" in the data sheets of the signal elements).

单击下面可查看定价，库存，交付和生命周期等信息

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