PSD signal towers

Optimum detection of machine states

PSD signal towers
Clear signaling –
at all times and in all places

Reducing downtimes and thus costs is the only way to ensure a competitive advantage. Unmistakable signaling of the machine or system state is a crucial requirement for this. The modular signal towers of the PSD (Phoenix Signaling Devices) product range are characterized by their wide range of signals in optical as well as acoustic elements.

If you require central monitoring of the machine states, even in areas without network infrastructure, you can choose between two cost-effective alternatives. The signal tower assumes the role of a wireless interface and also enables direct or subsequent evaluation on the PC.

Be flexible when it comes to system expansions and conversions and try it for yourself.

Advantages of the PSD signal towers from Phoenix Contact:

• Clear status indication
• Considerable signal diversity
• Fast installation
• Modular design
• Modular expansion
• Various mounting options
• High degree of protection
• Central monitoring and control

The signal towers are used to indicate the status on machines or systems, including operating state (startup, normal operation, etc.), warnings, error messages, pending critical states, acknowledgement requests, etc.. There are also numerous other applications, such as the status display of access controls and cabinet systems.

Advantages of our WIN system:

- Simultaneous monitoring of a large number of machines
- Central monitoring is possible, even in areas without network infrastructure (e.g., Ethernet)
- Can be operated parallel to other wireless applications
- High wireless range possible
- No programming or parameterization required
- Graphical evaluation of machine states
- Retrospective analysis of machine states
- Error messages via e-mail

WIN wireless system

Using the WIN (Wireless Information Network) system, it is possible to simultaneously monitor the states of up to 50 machines at a central point by transmitting the states via wireless elements integrated into the signal towers (slaves) to a receiving element (master) that is connected to the USB port of a PC.

A slave has a wireless range of up to 300 m. The distance of a slave from the master can be increased by up to 900 m with the help of the integrated repeater and routing function.

Wireless multiplexer

In addition to creating a complete wireless system, it is also possible to mirror the state of a signal tower outside of the line of sight wirelessly to another signal tower with the wireless multiplexer set (PSD-S MUX SET). Both elements of the set can be used directly without prior configuration.

Technical data

General data

Input voltage	24 V DC
Ambient temperature	-20°C ... 50°C
Degree of protection	IP65, when installed
Diameter	70 mm
Mounting position	Any
Approvals	c(UL)us

Optical elements

Type of optical signal	Permanent light (bulb), flashing light (Xenon flash tube), LED permanent light, LED blinking light, LED flashing light (double flash), LED random flashing light, LED rotating light
Calotte color	Red, green, yellow, clear, blue

Acoustic elements

Type of acoustic signal	Siren, buzzer, voice output
Volume	Max. 105 dB(A)

Wireless elements

Frequency	868 MHz or 915 MHz (c(UL)us)

PSD signal towers
Mounting options tailored to your requirements

Construction of a PSD signal tower – modular and flexible

To assemble your signal tower, proceed as follows:

① Select the appropriate mounting method for your signal tower application: surface or tube mounting

② If applicable, select the angled connector or outlet box

③ If applicable, select the base and the required tube length: 110 mm … 1000 mm

④ Select the appropriate connection element for the mounting type: screw or spring-cage connection

⑤ Select
    (a) the optional wireless elements,
    (b) the required optical elements,
    (c) if applicable, the acoustic element

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⑤a

Order No. 2700679
WIN wireless system

Order No. 2700683
Wireless multiplexer

④

Order No. 2700093
Connection element with screw connection

Order No. 2700091
Connection element with spring-cage connection

Order No. 2700160
Bracket for single-sided surface mounting

Order No. 2700161
Bracket for two-sided surface mounting

②

Order No. 2700153
Outlet box with lateral cable entry

Order No. 2700144
Bracket for surface mounting

① **Surface mounting**

Optical signal elements
(LED) permanent light,
(LED) flashing light,
LED blinking light,
etc.
(for ordering information
see page 6)

(5b)

Acoustic signal elements
Siren, buzzer,
voice output
(for ordering information
see page 7)

(5c)

Order No. 2700095
Connection element with screw connection

Order No. 2700092
Connection element with spring-cage connection

④

250 mm   Order No. 2700157
400 mm   Order No. 2700158
1000 mm Order No. 2700154
Tube, Ø 25 mm

Order No. 2700152
Tube for direct mounting on the foldaway base

③

Order No. 2700156
Base with integrated tube, 110 mm long

Order No. 2700163
Base for tube, Ø 25 mm, plastic

Order No. 2700164
Base for tube, Ø 25 mm, metal

Order No. 2700151
Foldaway base, pitch 7.5°

Order No. 2700150
Adapter for single-hole mounting

②

Order No. 2700153
Outlet box with lateral cable entry

Order No. 2700155
Outlet box with magnetic base and lateral cable entry

Order No. 2700149
Bracket for base mounting with hidden cable routing

Order No. 2700143
Bracket for base mounting

Tube mounting

①

Product overview – PSD signal towers

Optical signal elements (see page 5)

Permanent light	**PSD-S-OE RD** Order No. 2700096 • Without bulb • 12 to 240 V AC/DC	**PSD-S OE YE** Order No. 2700098 • Without bulb • 12 to 240 V AC/DC	**PSD-S OE GN** Order No. 2700097 • Without bulb • 12 to 240 V AC/DC	**PSD-S OE CL** Order No. 2700099 • Without bulb • 12 to 240 V AC/DC	**PSD-S OE BU** Order No. 2700100 • Without bulb • 12 to 240 V AC/DC
Flashing light	**PSD-S OE FL RD** Order No. 2700101 • Xenon flash tube • 24 V DC	**PSD-S OE FL YE** Order No. 2700103 • Xenon flash tube • 24 V DC	**PSD-S OE FL GN** Order No. 2700102 • Xenon flash tube • 24 V DC	**PSD-S OE FL CL** Order No. 2700105 • Xenon flash tube • 24 V DC	**PSD-S OE FL BU** Order No. 2700106 • Xenon flash tube • 24 V DC
LED permanent light	**PSD-S OE LED RD** Order No. 2700107 • 24 V AC/DC	**PSD-S OE LED YE** Order No. 2700122 • 24 V AC/DC	**PSD-S OE LED GN** Order No. 2700119 • 24 V AC/DC	**PSD-S OE LED CL** Order No. 2700127 • 24 V AC/DC	**PSD-S OE LED BU** Order No. 2700131 • 24 V AC/DC
LED blinking light	**PSD-S OE LED BL RD** Order No. 2700114 • 24 V AC/DC	**PSD-S OE LED BL YE** Order No. 2700123 • 24 V AC/DC	**PSD-S OE LED BL GN** Order No. 2700121 • 24 V AC/DC	**PSD-S OE LED BL CL** Order No. 2700128 • 24 V AC/DC	**PSD-S OE LED BL BU** Order No. 2700132 • 24 V AC/DC
LED flashing light	**PSD-S OE LED FL RD** Order No. 2700115 • Double flash • 24 V DC	**PSD-S OE LED FL YE** Order No. 2700124 • Double flash • 24 V DC		**PSD-S OE LED FL CL** Order No. 2700129 • Double flash • 24 V DC	**PSD-S OE LED FL BU** Order No. 2700134 • Double flash • 24 V DC
LED random flashing light	**PSD-S OE LED RFL RD** Order No. 2700118 • 24 V DC	**PSD-S OE LED RFL YE** Order No. 2700126 • 24 V DC		**PSD-S OE LED RFL CL** Order No. 2700130 • 24 V DC	**PSD-S OE LED RFL BU** Order No. 2700135 • 24 V DC
LED rotating light	**PSD-S OE LED RL RD** Order No. 2700116 • 24 V AC/DC	**PSD-S OE LED RL YE** Order No. 2700125 • 24 V AC/DC			

Accessories

PSD-S AS BULB 5W Order No. 2700142 **Bulb** • 5 W • 24 V • BA 15d base	**PSD-S AS CABLE GLAND M16X1,5** Order No. 2700145 **Cable gland** • M16 x 1.5 mm	**PSD-S AS LABEL BOARD** Order No. 2700147 **Labeling panel for tube mounting** • Complete with mounting material	**PSD-S AS END COVER** Order No. 2700148 **End cover (replacement part)**

Wireless elements (see page 4)

PSD-S-WIN MA	PSD-S-WIN SL	PSD-WIN STARTERKIT	PSD-WIN SET-1MA-3SL	PSD-S MUX SET
WIN master	**WIN slave**	**WIN starter kit**	**WIN set**	**Wireless multiplexer set**
Order No. 2700682	Order No. 2700681	Order No. 2700680	Order No. 2700679	Order No. 2700683
868 MHz ... 868.6 MHz	868 MHz ... 868.6 MHz	868 MHz ... 868.6 MHz	868 MHz ... 868.6 MHz	868 MHz ... 868.6 MHz
Order No. 2701664	Order No. 2701565	Order No. 2701564	Order No. 2701563	Order No. 2701566
915 MHz	915 MHz	915 MHz	915 MHz	915 MHz

Acoustic signal elements (see page 5)

PSD-S AE SC1-2 105DB	PSD-S AE BM2-1 85DB	PSD-S AE SP1-3 100DB/2	PSD-S AE SM8-5 100DB/1	PSD-S AE SM7-4 100DB/3	PSD-S AE V15/1
Order No. 2700139	Order No. 2700136	Order No. 2700137	Order No. 2700138	Order No. 2700141	Order No. 2700140
Siren	**Buzzer**	**Siren**	**Siren**	**Siren**	**Voice output**
• Alternating continuous tone	• Continuous/pulse tone	• Pulse tone	• 8 tones	• 7 tones	• Up to 15 sound sequences
• Max. 105 dB(A)	• Max. 85 dB(A)	• Automatic volume control	• Max. 100 dB(A)	• Max. 100 dB(A)	• Max. play time of 60 minutes
• IP40 protection	• 24 V AC/DC	• Max. 100 dB(A)	• Tones can be selected via DIP switch	• Tone selection via 3 signal cables	• 24 V DC
• 24 V DC		• 24 V DC	• 24 V AC/DC	• 24 V DC	

Connection and mounting elements for surface mounting (see page 4)

PSD-S ME OB	PSD-S ME BR-SM	PSD-S ME BR-SM/1S	PSD-S ME BR-SM/2S	PSD-S CE-SM SPRING	PSD-S CE-SM SCREW
Order No. 2700153	Order No. 2700144	Order No. 2700160	Order No. 2700161	Order No. 2700091	Order No. 2700093
Outlet box with lateral cable entry	**Bracket for surface mounting**	**Bracket for single-sided surface mounting**	**Bracket for two-sided surface mounting**	**Connection element** • Spring-cage connection	**Connection element** • Screw connection

Connection and mounting elements for tube mounting (see page 5)

PSD-S ME OB	PSD-S ME OB/MB	PSD-S ME BR-BM/HCR	PSD-S ME BR-BM	PSD-S ME A-SH M18
Order No. 2700153	Order No. 2700155	Order No. 2700149	Order No. 2700143	Order No. 2700150
Outlet box with lateral cable entry	**Outlet box with magnetic base and lateral cable entry**	**Bracket for base mounting with hidden cable routing**	**Bracket for base mounting**	**Adapter for single-hole mounting**
PSD-S ME FB	PSD-S ME T-P 45	PSD-S ME BT 110	PSD-S ME B-P	PSD-S ME B-M
Order No. 2700151	Order No. 2700152	Order No. 2700156	Order No. 2700163	Order No. 2700164
Foldaway base	**Tube for direct mounting on foldaway base**	**Base with integrated tube** • 110 mm long	**Base for tube** • Plastic	**Base for tube** • Metal
PSD-S ME T-M 250	PSD-S ME T-M 400	PSD-S ME T-M 1000	PSD-S CE-TM SPRING	PSD-S CE-TM SCREW
Order No. 2700157	Order No. 2700158	Order No. 2700154	Order No. 2700092	Order No. 2700095
Tube • 250 mm long	**Tube** • 400 mm long	**Tube** • 1000 mm long	**Connection element** • Spring-cage connection	**Connection element** • Screw connection

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