

PSD-SC IOL S15 AE - Signal tower



1801970

<https://www.phoenixcontact.com/us/products/1801970>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Signal tower, 15 segments, IO-Link, with siren

Product description

The signal tower is intended for signaling machine and system states. You can individually configure the individual segments of the illuminated surface in terms of color, brightness, and lighting effect. You can integrate the signal tower into various networks via an IO-Link master. By integrating the IODD device description file into software tools, such as the PLCnext Engineer automation software, you can configure the signal tower centrally. Extended parameters and diagnostic data can be read acyclically from the PLC and written via ISDU objects.

Your advantages

- Flexible use
- Four different operating modes: signal tower mode, autoscale mode, filling level mode, and individual mode
- IO-Link specification V1.1
- Connection to an IO-Link master with M12 connector
- IP66/IP69K

Commercial data

Item number	1801970
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR07
Product key	DRL112
GTIN	4067923425200
Weight per piece (including packing)	842 g
Weight per piece (excluding packing)	791 g
Customs tariff number	85318070
Country of origin	DE

PSD-SC IOL S15 AE - Signal tower



1801970

<https://www.phoenixcontact.com/us/products/1801970>

Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
----------	---

Product properties

Product type	Signaling device
Product family	PSD-SC
MTTF	32 Years

Insulation characteristics

Protection class	III
Overvoltage category	I
Pollution degree	3

Electrical properties

Supply

Supply voltage (DC)	24 V DC $\pm 20\%$
Supply voltage range	19.2 V DC ... 28.8 V DC

General

Current consumption	typ. 620 mA
Number of segments	15
Signal element type	optical
	acoustic
Type of acoustic signal	Continuous tone
	Pulse tone
	Alternating tone
	Sweep tone
	Rising
	Falling
Type of optical signal	Blinking light (Frequency configurable)
	Permanent light
	Rotating light
	Flashing light
	Double flash
	Triple flash
Number of tones	10 (preset)
Volume	max. 105 db(A) (Within 1 m distance)
Volume range	80 db(A) ... 105 db(A)

Input data

PSD-SC IOL S15 AE - Signal tower



1801970

<https://www.phoenixcontact.com/us/products/1801970>

IO-Link

Number of ports	1
Connection method	M12 connector
Specification	V1.1
Transmission speed	230.4 kbps (COM3)
Cycle Time	min. 6 ms

Connection data

Connection method	M12 connector, 4-pos.
-------------------	-----------------------

Signaling

Light properties

Source of light type	LED
----------------------	-----

Dimensions

Height	371 mm (Including seal)
Diameter	72.5 mm

Material specifications

Color (Housing)	black (RAL 9005)
Color (Calotte)	Transparent white
Material ()	Polycarbonate

Environmental and real-life conditions

Ambient conditions

Degree of protection (IP)	IP66
	IP69K
Degree of protection (IK)	IK08 (Impact resistance level)
Degree of protection (UL type)	UL Type 4
	UL Type 4X
	UL Type 12
	UL Type 13
Ambient temperature (operation)	-30 °C ... 60 °C (Temperatures >50°C can significantly reduce the brightness and service life of the device)

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	Immunity test in accordance with EN IEC 61000-6-2 Electrostatic discharge (ESD)IEC 61000-4-2 Criterion B, ±4 kV contact discharge, +8 kV air discharge
	Immunity test in accordance with EN IEC 61000-6-2 Electromagnetic fieldsIEC 61000-4-3 Criterion AField strength: 10 V/m (80 MHz ... 1 GHz)Field strength: 3 V/m (1 GHz ... 6 GHz)

PSD-SC IOL S15 AE - Signal tower



1801970

<https://www.phoenixcontact.com/us/products/1801970>

	Immunity test in accordance with EN IEC 61000-6-2 Fast transients (burst)IEC 61000-4-4 Criterion B, +2 kV
	Immunity test in accordance with EN IEC 61000-6-2 Transient overvoltage (surge)IEC 61000-4-5 Criterion B, DC supply lines: 0.5 kV (symmetrical)
	Immunity test in accordance with EN IEC 61000-6-2 Conducted interferenceIEC 61000-4-6 Criterion A, Test voltage 10 V
	Noise emission test in accordance with EN IEC 61000-6-4 Class A

Mounting

Mounting type	Base mounting
	Tube mounting

PSD-SC IOL S15 AE - Signal tower

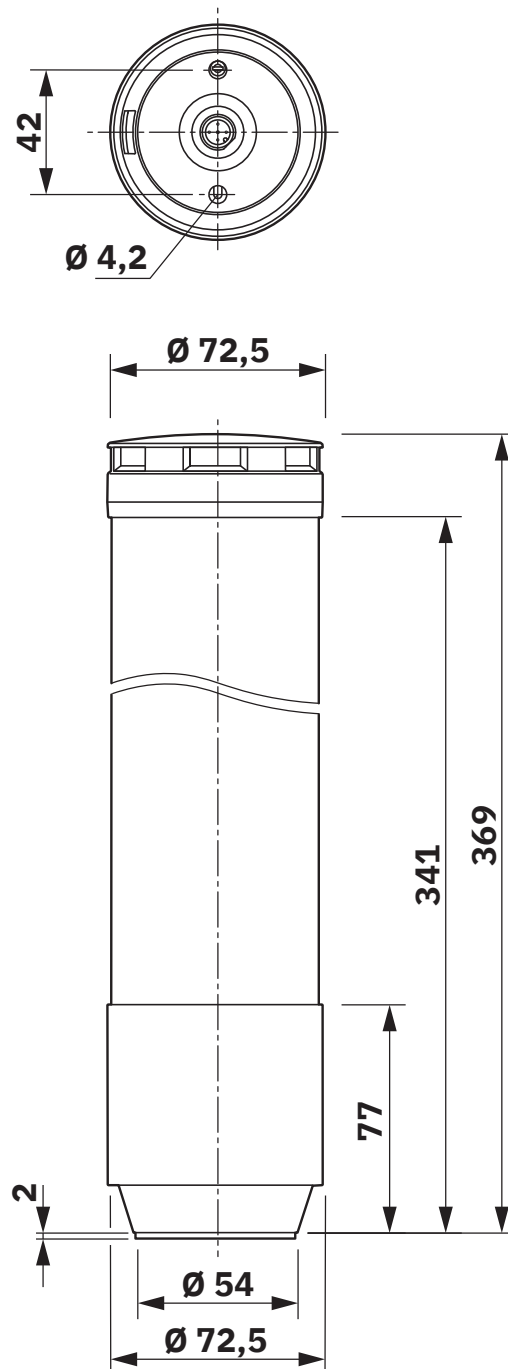
1801970

<https://www.phoenixcontact.com/us/products/1801970>



Drawings

Dimensional drawing



Dimensions (in mm)

PSD-SC IOL S15 AE - Signal tower



1801970

<https://www.phoenixcontact.com/us/products/1801970>

Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1801970>



cULus Listed

Approval ID: E123528

PSD-SC IOL S15 AE - Signal tower



1801970

<https://www.phoenixcontact.com/us/products/1801970>

Classifications

ECLASS

ECLASS-13.0	27371220
ECLASS-15.0	27371220

ETIM

ETIM 9.0	EC000232
----------	----------

UNSPSC

UNSPSC 21.0	46171600
-------------	----------

PSD-SC IOL S15 AE - Signal tower



1801970

<https://www.phoenixcontact.com/us/products/1801970>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead titanium zirconium oxide(CAS: 12626-81-2)
	Lead(CAS: 7439-92-1)

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com