

## Signal lamp - CSD-SL 200S GN - 2404768

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Signal light, 24 V DC, green, communication interface, safe diagnostics in accordance with safety standards

### Product Description


The signal light is designed for use in light signal systems (e.g., lock systems, movable bridges on inland waterways, etc.). The use of safety-related autonomous monitoring functions ensures high availability. Only components that conform to the industry standard are used for the monitoring functions. The signal light is available in various light colors. You can manage the signal light from the application program using a controller from Phoenix Contact. The communication interface provides you with a large amount of diagnostic and status information.

### Your advantages

- ✓ Developed in accordance with EN 12966-1, IALA recommendation E200-1
- ✓ 400 m connection to the control unit via fieldbus
- ✓ Diagnostic capability
- ✓ Safe diagnostics (up to SIL 2/PL d) in conjunction with safe modules (safety technology)
- ✓ High light and color intensity
- ✓ Application-specific programming supported
- ✓ Particularly economical thanks to energy-efficient LED technology and an LED service life of at least 50 000 h
- ✓ Durable and energy-saving LED technology
- ✓ Fieldbus communication
- ✓ Can be dimmed in 256 steps



### Key Commercial Data

Packing unit	1
GTIN	 4 055626 447247
GTIN	4055626447247
Custom tariff number	85308000

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## Technical data

### Dimensions

Width	174 mm
Height	189 mm
Depth	66 mm
Length	174 mm

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Air pressure (operation)	70 hPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 hPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP65/IP67, when installed

### General

Net weight	1680 g
Diagnostics messages	LEDs; temperature, current, voltage, etc. Yes
	Mains failure, communication failure Yes
	Safe diagnostics (up to SIL 2/PL d) in conjunction with safe modules (safety technology) Yes
Mounting position	vertical
Design	Operating hours counter
Inrush current	max. 12 A (µ-sec-pulse)

### Power supply for module electronics

Connection method	M12 connector
Number of positions	8
Supply voltage	24 V DC (DC)
Supply voltage range	19.2 V DC ... 30 V DC (DC)
Current consumption	max. 740 mA (green LEDs)
Power consumption	typ. 14 W (green LEDs)

### Light properties

Source of light type	LED
Number of LEDs	8 (according to IALA recommendation E200-1 and CIE 1931)
Service life, lighting appliance	50000 h
Light color	IALA green, optimum
Color temperature / wavelength	490...510 nm
Color class	C2 (EN 12966)
Luminance	R3 (EN 12966)
Luminance ratio	R3 (EN 12966)

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### Light properties

Phantom light class	5 (EN 12368)
Luminous intensity	4200 Cd
Can be dimmed	Yes, in 256 steps
Emission angle	7,5° x 7,5°

### Standards and Regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	27144051
eCl@ss 5.0	27144000
eCl@ss 5.1	27144000
eCl@ss 6.0	27144000
eCl@ss 7.0	27144051
eCl@ss 8.0	27144051
eCl@ss 9.0	27144051

### ETIM

ETIM 5.0	EC001959
ETIM 6.0	EC001340
ETIM 7.0	EC001340

## Accessories

### Accessories

#### Circular connector (cable-side)

Connector - SACC-M12MS-4PL SH - 1424666



Connector, Universal, 4-position, shielded, Plug straight M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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### Accessories

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#### Connector - SACC-M12FS-4PL SH - 1424668



Connector, Universal, 4-position, shielded, Socket straight M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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#### Circular connectors (device side)

#### Panel feed-through - SACC-EC-M12FS-4CON-PG9/0,5 - 1693791



Sensor/Actuator flush-type socket, 4-pos., M12, A-coded, front/screw mounting with Pg9 thread, can be positioned, with 0.5 m TPE litz wire, 4x 0.34 mm<sup>2</sup>

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#### Data cable preassembled

#### Hybrid cable - NBC-MSY/ 1,0-94H SCO - 1407487



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on free cable end, cable length: 1 m, Power with Ethernet (PWE)

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#### Hybrid cable - NBC-MSY/ 2,0-94H SCO - 1407488



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on free cable end, cable length: 2 m, Power with Ethernet (PWE)

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### Accessories

Hybrid cable - NBC-MSY/ 5,0-94H SCO - 1407489



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on free cable end, cable length: 5 m, Power with Ethernet (PWE)

Hybrid cable - NBC-MSY/10,0-94H SCO - 1407490



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on free cable end, cable length: 10 m, Power with Ethernet (PWE)

Hybrid cable - NBC-MSY SCO-EH/.../... - 1408642



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, Variable cable type, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on free cable end, cable length: Free input (0.2 ... 40.0 m), Power with Ethernet (PWE)

Hybrid cable - NBC-MSY/ 1,0-94H/MSY SCO - 1407491



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on Plug straight M12 SPEEDCON / IP67, coding: Y, cable length: 1 m, Power with Ethernet (PWE)

Hybrid cable - NBC-MSY/ 2,0-94H/MSY SCO - 1407492



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on Plug straight M12 SPEEDCON / IP67, coding: Y, cable length: 2 m, Power with Ethernet (PWE)

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### Accessories

Hybrid cable - NBC-MSY/ 5,0-94H/MSY SCO - 1407493



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on Plug straight M12 SPEEDCON / IP67, coding: Y, cable length: 5 m, Power with Ethernet (PWE)

Hybrid cable - NBC-MSY/10,0-94H/MSY SCO - 1407494



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on Plug straight M12 SPEEDCON / IP67, coding: Y, cable length: 10 m, Power with Ethernet (PWE)

Hybrid cable - NBC-MSY-MSY SCO-EH/.../... - 1408641



Hybrid cable, Ethernet hybrid CAT5 (100 Mbps), 8-position, Variable cable type, shielded, Plug straight M12 SPEEDCON / IP67, coding: Y, on Plug straight M12 SPEEDCON / IP67, coding: Y, cable length: Free input (0.2 ... 40.0 m), Power with Ethernet (PWE)

### Plug for cable screw gland

Screw plug - PROT-M12 FB - 1555538



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

Screw plug - PROT-M12 - 1680539



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

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### Accessories

#### Protective cap

Sealing cap - PROT-M12 FS-M - 1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

#### Screwdriver tools

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

#### Sensor/actuator cable

Sensor/actuator cable - SAC-4P-M12MS/ 1,5-PUR/M12FS SH - 1500868



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 1.5 m

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### Accessories

Sensor/actuator cable - SAC-4P-M12MS/ 3,0-PUR/M12FS SH - 1500871



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 3 m

Sensor/actuator cable - SAC-4P-M12MS-M12FS SH/.../... - 1536081



Sensor/actuator cable, 4-position, Variable cable type, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: Free input (0.2 ... 40.0 m)

Sensor/actuator cable - SAC-4P-MS-FS SH SCO/.../... - 1523803



Sensor/actuator cable, 4-position, Variable cable type, shielded, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: Free input (0.2 ... 40.0 m)

Sensor/actuator cable - SAC-4P-M12MS/.../... - 1696947



Sensor/actuator cable, 4-position, Variable cable type, Plug straight M12, coding: A, on free cable end, cable length: Free input (0.2 ... 40.0 m)

### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors



