CSD-SL 200S RD - Signal light

2404767

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Signal light, 24 V DC, IALA red, optimum, emission angle (vertical/Horizontal): 10.5 °/4.5 °, diameter: 174 mm, degree of protection: IP65/IP67, Communication interface, safe diagnostics

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 standardized light colors. The communication interface provides you with a large amount of diagnostic and status information. Due to safe 2-channel diagnostics, light signal systems up to performance level e and SIL 3 can be implemented.

Your advantages

- Developed in accordance with EN 12966-1, IALA recommendation E200-1
- Safe 2-channel diagnostics in conjunction with safety modules up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN 62061 and IEC 61508
- Fieldbus communication (possible distance from controller: 400 m)
- Fixed state in the event of interrupted communication
- High light and color intensity
- Can be dimmed in 256 steps
- Particularly economical thanks to energy-efficient LED technology and an LED service life of at least 50000 h

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2404767
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRL121

Product key	DRL121
GTIN	4055626447230
Weight per piece (including packing)	2,020 g
Weight per piece (excluding packing)	1,680 g
Customs tariff number	85308000
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Signaling light
Application	Inland navigation
	Transportation infrastructure
	Safe diagnostics in accordance with IEC 61508
Mounting position	vertical
Design	Operating hours counter
Special properties	Communication interface
	safe diagnostics
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
Light color	IALA red, optimum

Times

Typical response time	max. 400 ms
Typ. starting time with U_s	typ. 100 ms
Recovery time	max. 800 ms

Electrical properties

General

Inrush current	max. 12 A (µ-sec-pulse)

Supply: Module electronics

Connection method	M12 connector
Number of positions	8
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Current consumption	max. 590 mA (red LEDs)
Power consumption	typ. 12 W (red LEDs)

Output data

Digital:

Number of outputs	2
Output current	max. 100 mA (per channel)
Maximum output current per channel	100 mA

Output voltage range	17 V DC ... 31 V DC (DC)

Connection data

Connection method	M12 connector
Note on the connection method	Hybrid 8-pos. Y-coded for power and data, and 4-pos. A-coded for safe diagnostics

Signaling

Light properties

Source of light type	LED
Number of LEDs	8 (in accordance with IALA recommendation E200-1 and CIE 1931)
Color spectrum	620 nm ... 645 nm
Color class	C2 (EN 12966)
Luminance	L3 (EN 12966)
Luminance ratio	R3 (EN 12966)
Phantom light class	5 (EN 12368)
Luminous intensity	max. 3200 Cd
Can be dimmed	Yes, in 256 steps
Emission angle	10.5 °
	4.5 °

Diagnostic messages

Diagnostics	LEDs; temperature, current, voltage, etc.
Message	yes

Diagnostic messages

Diagnostics	Mains failure, communication failure
Message	yes

Diagnostic messages

Diagnostics	Safe diagnostics (up to SIL 2/PL d) in conjunction with safe modules (safety technology)
Message	yes

Dimensions

Depth	66 mm
Diameter	174 mm

Material specifications

Color	black (RAL 9005)
Material Housing	Aluminum die-cast in accordance with DIN EN 1706
Material Cover pane	Glass
Material Housing	corrosion-resistant (Light housing)
Material Cover pane	(Window)

Characteristics

Safety data: EN ISO 13849

Performance level (PL)	e (two-channel)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP65/IP67 (When installed)
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)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	5 % ... 95 % (according to DIN EN 61131-2, non-condensing, no ice formation)

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	15g

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	Screw mounting
	Snap-on assembly
Mounting position	vertical

Approvals

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Functional Safety
Approval ID: 968/FSP 1690.01/19

Classifications

ECLASS

ECLASS-13.0	27110201
ECLASS-15.0	27110201

ETIM

ETIM 10.0	EC002750

UNSPSC

UNSPSC 21.0	39111800

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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