

RLY3-OSSD100

Flexi Soft

SAFETY CONTROLLERS





Ordering information

Туре	Part no.
RLY3-OSSD100	1085343

Other models and accessories → www.sick.com/Flexi_Soft

Illustration may differ



Detailed technical data

Features

Applications	Output expansion module for OSSDs
Compact sensor types	Safety sensors with OSSDs

Safety-related parameters

Safety integrity level	SIL3 (IEC 61508) SILCL3 (IEC 62061)
Category	Category 4 (ISO 13849-1)
Performance level	PL e (ISO 13849-1)
$\mbox{PFH}_{\mbox{\scriptsize D}}$ (mean probability of a dangerous failure per hour)	1.0 x 10 ⁻⁹
T _M (mission time)	20 years (ISO 13849-1)
Safe state in the event of a fault	The safety relay has no internal fault detection and is unable to assume a safe status in the event of a fault. Fault detection is performed by the connected safety-related logic unit.
Stop category	0 (IEC 60204-1)

Functions

Path for external device monitoring (EDM)	✓
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Interfaces

Connection type	Front connector with spring terminals
Inputs	2 safety inputs
Outputs	2 enabling current paths (safe) 1 feedback current path (for use as external device monitoring, not safe)
Display elements	LEDs

Electrical data

Operating data

Voltage supply	Passive (no active voltage supply)
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Power consumption (input circuits)	≤ 1.5 W (DC)
Safety inputs	
Number	2
Input voltage	
HIGH	24 V DC (15 V 30 V)
LOW	0 V DC (-3 V 5 V)
Input current	≤ 50 mA
Test pulse width	≤1 ms
Test pulse rate	≤ 10 Hz
Enabling current paths	
Response time	12 ms
Number	2
Type of output	N/O contacts, positively guided
Contact material	Silver alloy, gold flashed
Switching voltage	10 V AC 230 V AC 10 V DC 230 V DC
Switching current	10 mA 6 A

Check-back current paths

Rated impulse with stand voltage \mathbf{U}_{imp}

Overvoltage category

Total current

Mechanical life

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Number	1
Type of output	N/C contact, positively guided
Contact material	Silver alloy, gold flashed
Switching voltage	15 V AC 30 V AC 15 V DC 30 V DC
Switching current	3 mA 100 mA
Mechanical life	1 x 10 ⁷ switching cycles

12 A

1 x 10⁷ switching cycles

III (EN 60664-1)

6 kV (EN 60664-1)

Mechanical data

Dimensions (W x H x D)	18 mm x 124.6 mm x 85.5 mm
Weight	130 g

Ambient data

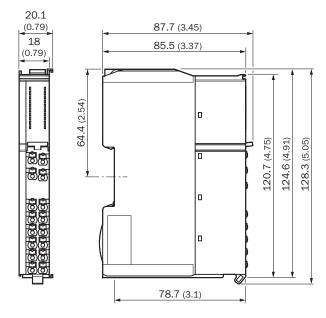
Enclosure rating	IP20 (IEC 60529)
Ambient operating temperature	-25 °C +55 °C
Storage temperature	-25 °C +70 °C
Air humidity	10 % 95 %, Non-condensing
Interference emission	According to IEC 61000-6-4
Interference resistance	According to IEC 61326-3-1 According to IEC 61000-6-2 According to IEC 60947-5-1

Classifications

ECI@ss 5.0	27371990
ECI@ss 5.1.4	27371990
ECI@ss 6.0	27371819
ECI@ss 6.2	27371819
ECI@ss 7.0	27371819
ECI@ss 8.0	27371819
ECI@ss 8.1	27371819
ECI@ss 9.0	27371819
ECI@ss 10.0	27371819
ECI@ss 11.0	27371819
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
UNSPSC 16.0901	41113704

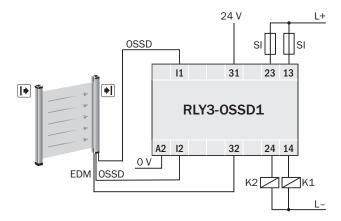
Dimensional drawing (Dimensions in mm (inch))

EMSS1, HAND1, OSSD1, OSSD2, TIME1



Connection diagram

RLY3-OSSD1: at safety light curtain with external device monitoring



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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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