

RLY3-OSSD1

ReLy

SAFETY RELAYS





Ordering information

Туре	Part no.
RLY3-OSSD1	1085343

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

Illustration may differ



Detailed technical data

Safety-related parameters

Safety integrity level	SIL3 (IEC 61508) SILCL3 (IEC 62061)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
B _{10d} parameter	3×10^5 switching operations (AC-15, 230 V, I = 1 A), 9×10^4 switching operations (AC-15, 230 V, I = 5 A), 2×10^5 switching operations (DC-13, 24 V, I = 1 A), 6×10^4 switching operations (DC-13, 24 V, I = 5 A)
$\ensuremath{PFH_{D}}$ (mean probability of a dangerous failure per hour)	1,0 x 10 ⁻⁹ (EN ISO 13849)
T _M (mission time)	20 years (EN ISO 13849)

Interfaces

Connection type	Plug-in spring terminals
Number of enable current (N/O) contacts	2, relevant for safety
Number of contactor monitoring (N/C) contacts	1, not safety-relevant

Electrical data

Operating data

- Francis	
Power consumption (input circuits)	≤ 1.5 W
Overvoltage category	III
Rated impulse with stand voltage $\mathbf{U}_{\mathrm{imp}}$	6 kV (EN 60664-1)

Input circuits

Input voltage	
HIGH	24 V DC (15 V DC 30 V DC)
LOW	-3 V DC 5 V DC
Input current	≤ 2 x 50 mA
Test pulse width	≤ 1 ms

Test frequency	≤ 10 Hz
Electrical output circuits	
Typical response time	10 ms
Contact material	Silver alloy, gold flashed
Enable current contacts	
Switching voltage	10 V DC 250 V DC
Current-carrying capacity per OSSD	10 mA 6 A
Contactor monitoring contacts	
Switching voltage	15 V DC 30 V DC
Current-carrying capacity per OSSD	3 mA 100 mA
Total current	≤ 12 A
Mechanical life	10 x 10 ⁶ switching operations

Mechanical data

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

Ambient data

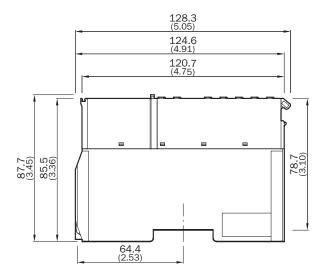
Enclosure rating	IP20 (EN 60529)
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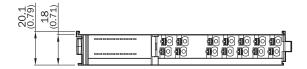
Classifications

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
ETIM 5.0	EC001449
ETIM 6.0	EC001449
UNSPSC 16.0901	41113704

Dimensional drawing (Dimensions in mm (inch))

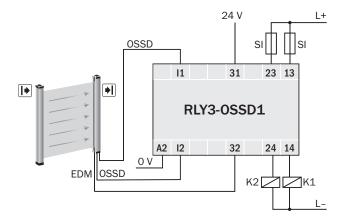
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Connection diagram

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.

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