SICK.COM



DATA SHEET

UE44-3SL3D330

UE44-3SL
Safety relays

SICK Sensor Intelligence



Illustration may differ

SAFETY RELAYS

UE44-3SL3D330

ORDERING INFORMATION

Type	part no.
UE44-3SL3D330	6024910

Further device versions and accessories at www.sick.com/UE44-3SL

DETAILED TECHNICAL DATA

SAFETY-RELATED PARAMETERS

Safety integrity level	[1]
Category	Category 4 (EN ISO 13849) [2] Category 3 (EN ISO 13849) [1]
Performance level	PL e (EN ISO 13849) [2] PL d (EN ISO 13849) [1]
B_{10d} parameter	4×10^5 switching cycles (with maximum load)
PFH_D (mean probability of a dangerous failure per hour)	3.0×10^{-8} (EN ISO 13849) [2] 2.0×10^{-8} (EN ISO 13849) [1]
T_M (mission time)	20 years (EN ISO 13849)
Stop category	0 (EN 60204-1)

[1] For time contacts 37/38.

[2] For contacts 13/14, 23/24.

ELECTRONICS - OPERATING DATA

Voltage supply	A1, A2
Output circuit > 25 V AC / 60 V DC	PELV
Output circuit ≤ 25 V AC / 60 V DC	PELV or SELV
Supply voltage V_S	A1, A2 24 V DC (20.4 V DC ... 26.4 V DC)
Residual ripple	(≤ 2.4 V_{pp}) [1]
Power consumption	1.8 W
Overvoltage category	II
Rated insulation voltage U_i	300 V AC

[1] In DC operation, within the limits of V_S.

Rated impulse withstand voltage U_{imp}	4 kV
Test voltage	2 kV (50 Hz) (EN 60439-1)

[1] In DC operation, within the limits of V_s.

ELECTRONICS - CONTROL VOLTAGE: S11/S33, S21

Control voltage	22 V DC
Short-circuit current	≤ 2.2 A, between S33/S11 and S21
Short-circuit protection	PTC resistor

ELECTRONICS - INPUT CIRCUITS: S12, S31/S22

Input current	25 mA ≤ 100 mA
Reset time	
Manual	(≤ 30 ms)
Automatic	(≤ 750 ms)
Activation time of reset button	≥ 250 ms
Synchronous time monitoring	≤ 500 ms
Cable resistance	≤ 85 Ω

ELECTRONICS - OUTPUT CURRENT PATHS: 13/14, 23/24, 37/38

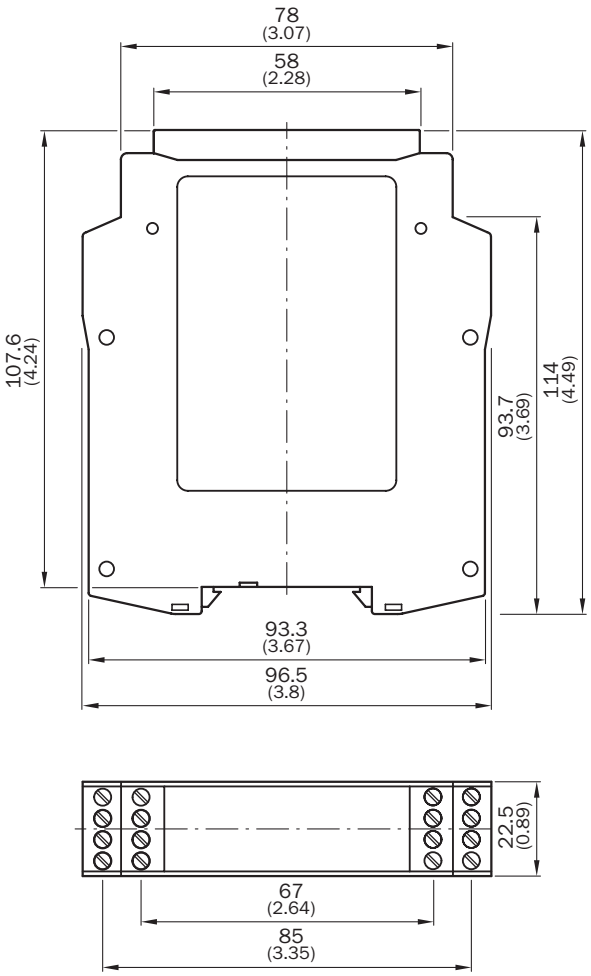
Response time	(≤ 25 ms) [1]
On-delay time	1.5 s ... 30 s
Number of enabling current paths (N/O)	2, category 4
Number of on-delayed N/O contacts	1, category 3
Contact type	Positively driven
Contact material	Silver alloy, gold flashed
Switching voltage	
Enabling current path	10 V AC ... 230 V AC 10 V DC ... 300 V DC
Current loading	
Enabling current path	10 mA ... 6 A
Total current	≤ 12 A
Usage category	AC-15/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	4 A (230 V AC) 3600 switching cycles/h 5 A (24 V DC) 360 switching cycles/h 3 A (24 V DC) 3600 switching cycles/h 4 A (230 V AC) 360 switching cycles/h 3 A (230 V AC) 3600 switching cycles/h 4 A (24 V DC) 360 switching cycles/h 2.5 A (24 V DC) 3600 switching cycles/h
Switching frequency	≤ 3600/h
Mechanical life (relay contacts)	5×10^6 switching cycles
Electrical life (relay contacts)	2×10^6 switching cycles

[1] K1/K2.

MECHANICS

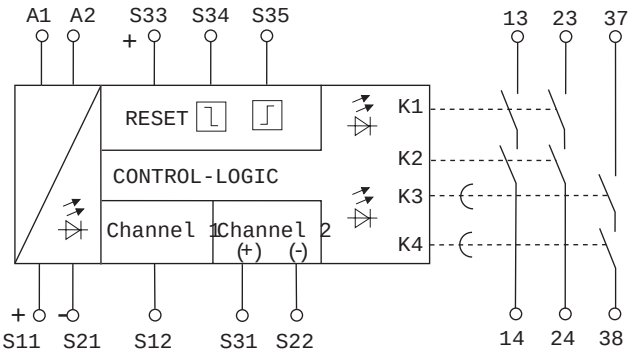
Dimensions (W x H x D)	22.5 mm x 114 mm x 96.5 mm
Contamination rating	3 (EN 50178)
Weight	+ 0.2 kg

DIMENSIONAL DRAWING



Dimensions in mm (inch)

CONNECTION DIAGRAM



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6024910

SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

SICK

Sensor Intelligence