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DATA SHEET

UE43-4AR2D2

UE43-4AR
Safety relays

SICK Sensor Intelligence



Illustration may differ

SAFETY RELAYS

UE43-4AR2D2

ORDERING INFORMATION

Type	part no.
UE43-4AR2D2	6034772

Further device versions and accessories at www.sick.com/UE43-4AR

DETAILED TECHNICAL DATA

SAFETY-RELATED PARAMETERS

Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
B_{10d} parameter	3×10^5 switching cycles (AC-15, 230 V, I = 5 A) 2×10^6 switching cycles (DC-15, 230 V, I = 2 A) 7×10^6 switching cycles (DC-13, 24 V, I = 1 A)
PFH_D (mean probability of a dangerous failure per hour)	1.30×10^{-8} (EN ISO 13849)
T_M (mission time)	20 years (EN ISO 13849)
Stop category	0 (EN 60204-1)

ELECTRONICS - OPERATING DATA

Voltage supply Output circuit > 25 V AC / 60 V DC, Output circuit ≤ 25 V AC / 60 V DC	A1, A2 PELV, PELV or SELV
Supply voltage V_S	A1, A2 24 V AC/DC (20.4 V AC/DC ... 26.4 V AC/DC)
Residual ripple	(≤ 2.4 V_{pp}) [1]
Power consumption	(≤ 2.8 VA (AC)) (≤ 1.3 W (DC))
Overvoltage category	II
Rated insulation voltage U_i	300 V AC
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

Control voltage	22 V DC (19.2 V DC ... 40 V DC)
Control current	≤ 250 mA

ELECTRONICS - INPUT CIRCUITS: S12, S52, S22

Input voltage	22 V DC (19.2 V DC ... 26.6 V DC)
Input current	25 mA ≤ 100 mA
Cable resistance	≤ 70 Ω

ELECTRONICS - INPUT CIRCUITS: S34

Input voltage	22 V DC (19.2 V DC ... 26.6 V DC)
Input current	5 mA
Cable resistance	≤ 25 Ω
Reset time	
Automatic	≤ 350 ms

ELECTRONICS - OUTPUT CURRENT PATHS: 13/14, 23/24, 33/34, 41/42

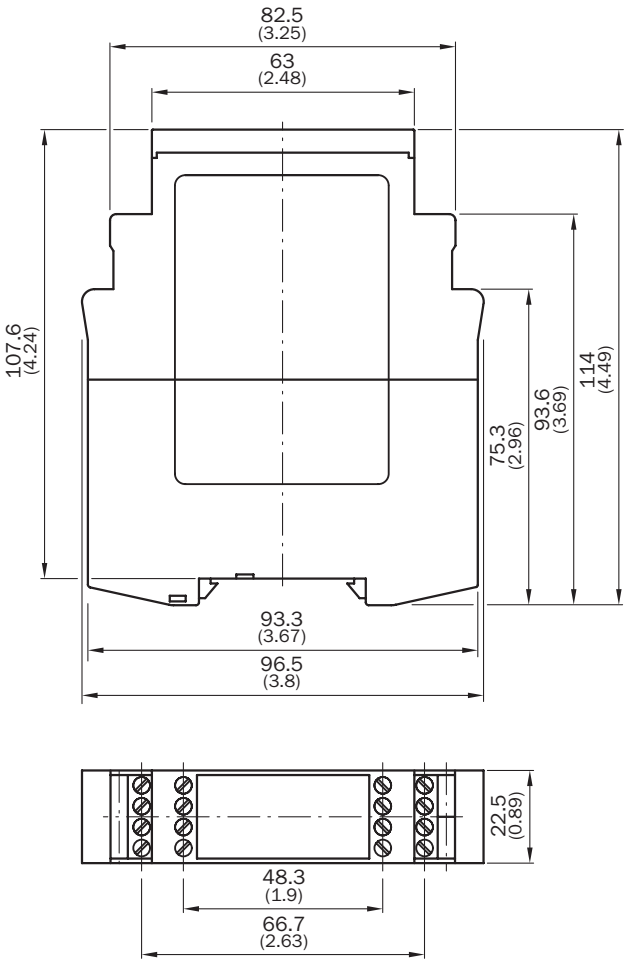
Response time	(≤ 10 ms) [1]
Number of enabling current paths (N/O)	4, relevant for safety
Contact type	Positively driven
Contact material	Silver alloy, gold flashed
Switching voltage	
Enabling current path	5 V AC/DC ... 300 V AC/DC
Current loading	
Enabling current path	10 mA ... 8 A
Usage category	AC-15/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	4 A (230 V AC) 360 switching cycles/h 4 A (24 V DC) 3600 switching cycles/h
Switching frequency	≤ 3600/h
Mechanical life (relay contacts)	1×10^7 switching cycles
Electrical life (relay contacts)	1×10^6 switching cycles

[1] K1/K2.

MECHANICS

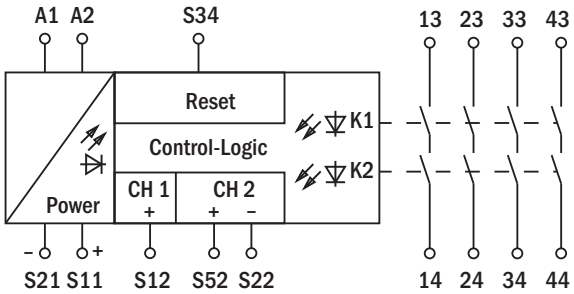
Dimensions (W x H x D)	22.5 mm x 114 mm x 96.5 mm
Contamination rating	3 (EN 50178)
Weight	0.27 kg

DIMENSIONAL DRAWING SAFETY RELAY



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/6034772

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SICK AT A GLANCE

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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

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