



DATA SHEET

UE11-4DX2D30.5

UE11-4DX
Safety relays



Illustration may differ

SAFETY RELAYS

UE11-4DX2D30.5

ORDERING INFORMATION

Type	part no.
UE11-4DX2D30.5	6024921
Further device versions and accessories at www.sick.com/UE11-4DX	

DETAILED TECHNICAL DATA

SAFETY-RELATED PARAMETERS

Safety integrity level	SIL 2 (IEC 61508) ¹⁾
Category	Category 3 (EN ISO 13849) ¹⁾
Performance level	PL d (EN ISO 13849) ¹⁾
B _{10d} parameter	1 x 10 ⁶ switching cycles (AC-15, 230 V, I = 0.5 A) 3.5 x 10 ⁵ switching cycles (DC-13, 24 V, I = 2 A) 1.2 x 10 ⁶ switching cycles (DC-13, 24 V, I = 0.5 A)
PFH ₀ (mean probability of a dangerous failure per hour)	2.0 x 10 ⁻⁷ (EN ISO 13849)
T _M (mission time)	4 years (EN ISO 13849)

¹⁾ If the feedback current path Y1 - Y2 (external device monitoring) is monitored using an appropriate main unit.

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 W (DC))
Overvoltage category	III (see operating instructions)
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.

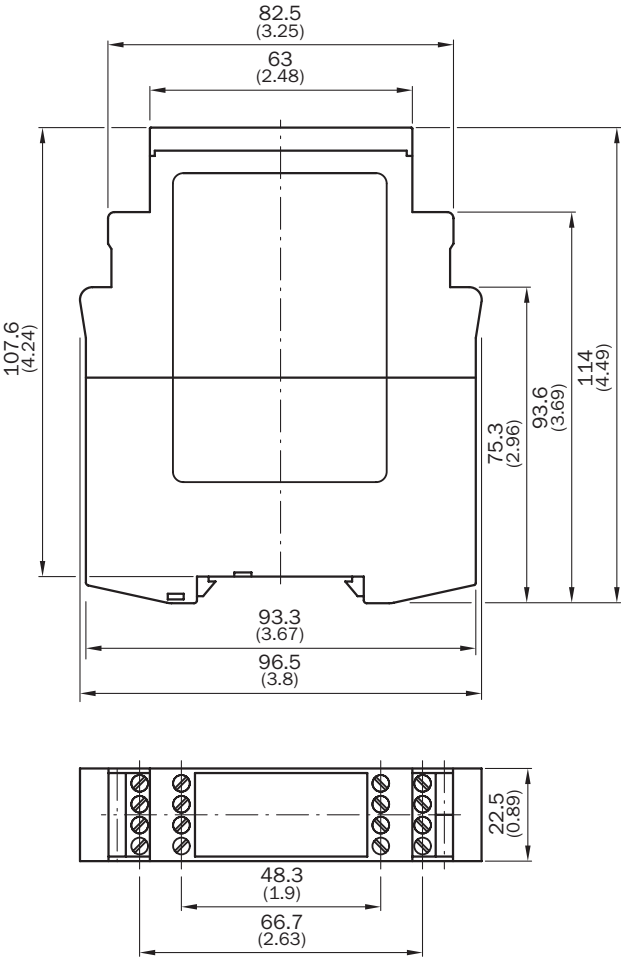
ELECTRONICS - OUTPUT CURRENT PATHS: 17/18, 27/28, 37/38, 47/48, 55/56, 65/66, Y1/Y2

Off-delay time	0.5 s
Number of enabling current paths (N/O)	4, relevant for safety
Number of signaling current paths (normally closed)	2, not safety-relevant
Number of feedback current paths (normally closed)	1, external device monitoring (EDM)
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
Signaling current path	10 V DC, 10 V DC ... 230 V AC, 300 V DC
Current loading	
Enabling current path	10 mA ... 6 A
Signaling current path	10 mA ... 2 A
Feedback current path	10 mA ... 100 mA
Total current	12 A
Usage category	AC-15/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	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)	1 x 10 ⁷ switching cycles
Electrical life (relay contacts)	2 x 10 ⁶ switching cycles

MECHANICS

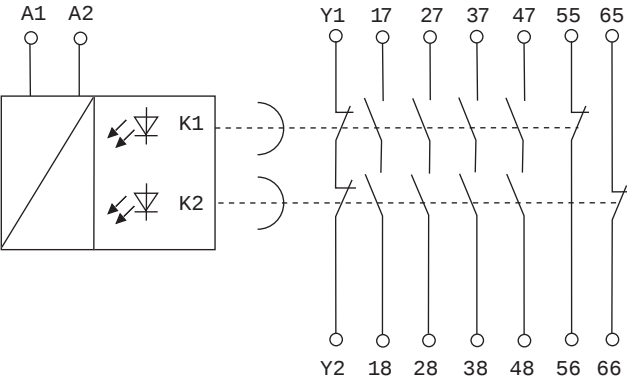
Dimensions (W x H x D)	22.5 mm x 114 mm x 96.5 mm
Contamination rating	3 (EN 50178)
Weight	0.2 kg

DIMENSIONAL DRAWING 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/6024921



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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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