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DATA SHEET

UE10-3OS2D0

UE10-3OS
Safety relays

SICK
Sensor Intelligence



Illustration may differ

SAFETY RELAYS

UE10-3OS2D0

ORDERING INFORMATION

Type	part no.
UE10-3OS2D0	6024917

Further device versions and accessories at www.sick.com/UE10-3OS

DETAILED TECHNICAL DATA

SAFETY-RELATED PARAMETERS

Safety integrity level	SIL 3 (IEC 61508) [1] [1]
Category	Category 4 (EN ISO 13849) [1]
Performance level	PL e (EN ISO 13849) [1]
B_{10d} parameter	1.26 x 10^6 switching cycles (AC-15, 230 V, I = 1.5 A) 5.9 x 10^6 switching cycles (AC-15, 230 V, I = 0.75 A) 4.35 x 10^5 switching cycles (DC-13, 24 V, I = 2.5 A) 1 x 10^7 switching cycles (DC-13, 24 V, I = 0.63 A)
PFH_D (mean probability of a dangerous failure per hour)	3.0 x 10^{-8} (EN ISO 13849)
T_M (mission time)	20 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	B1-B2/B3-B4
Output circuit > 25 V AC / 60 V DC	PELV
Output circuit ≤ 25 V AC / 60 V DC	PELV or SELV
Power consumption	2.4 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)

ELECTRONICS - INPUT CIRCUITS: B1-B2/B3-B4

Input voltage	24 V DC (15 V DC ... 30 V DC)

Input current	≤ 500 mA

ELECTRONICS - OUTPUT CURRENT PATHS: 13/14, 23/24, 33/34, 41/42, Y1/Y2

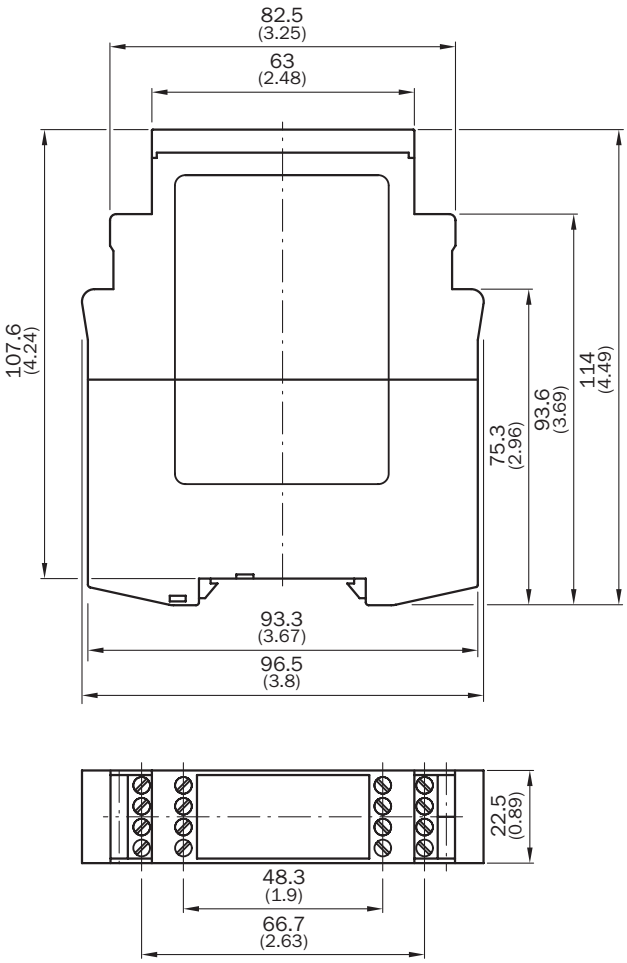
Response time	(≤ 20 ms) [1]
Number of enabling current paths (N/O)	3, relevant for safety
Number of signaling current paths (normally closed)	1, not safety-relevant
Number of feedback current paths (normally closed)	1, external device monitoring (EDM)
Contact type	Positively driven
Contact material	Silver 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 AC, 10 V DC ... 230 V AC, 300 V DC
Feedback current path	10 V DC ... 24 V DC
Current loading	
Enabling current path	5 mA ... 6 A
Signaling current path	5 mA ... 6 A
Feedback current path	5 mA ... 100 mA
Total current	≤ 12 A
Usage category	AC-15/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	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
Mechanical life (relay contacts)	1×10^7 switching cycles
Electrical life (relay contacts)	2×10^6 switching cycles

[1] K1/K2.

MECHANICS

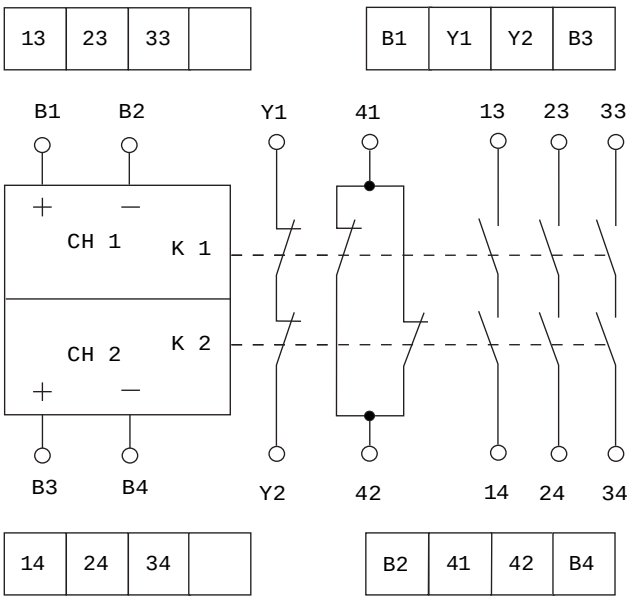
Dimensions (W x H x D)	22.5 mm x 114 mm x 96.5 mm
Contamination rating	3 (EN 50178)
Weight	0.2 kg

DIMENSIONAL DRAWING 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/6024917



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SICK AT A GLANCE

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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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