



DATA SHEET

UE23-3MF2D2

UE23-3MF
Safety relays



Illustration may differ

SAFETY RELAYS

UE23-3MF2D2

ORDERING INFORMATION

Type	part no.
UE23-3MF2D2	6034595

Further device versions and accessories at www.sick.com/UE23-3MF

DETAILED TECHNICAL DATA

SAFETY-RELATED PARAMETERS

Category	Category 3 (EN ISO 13849)
Performance level	PL d (EN ISO 13849)
B _{10d} parameter	3 x 10 ⁵ switching cycles (AC-15, 230 V, I = 5 A) 2 x 10 ⁶ switching cycles (DC-15, 230 V, I = 2 A) 7 x 10 ⁶ switching cycles (DC-13, 24 V, I = 1 A)
PFH _d (mean probability of a dangerous failure per hour)	2.0 x 10 ⁻⁷ (EN ISO 13849)
T _M (mission time)	20 years (EN ISO 13849)
Stop category	0 (EN 60204-1)

ELECTRONICS - OPERATING DATA

Supply voltage V _s	A1, A2 24 V DC (19.2 V DC ... 30 V DC)
Residual ripple	(≤ 2.4 V _{pp}) ¹⁾
Power consumption	(≤ 1 W)
Overvoltage category	II
Rated insulation voltage U _i	300 V AC
Rated impulse withstand voltage U _{imp}	4 kV
Test voltage	2.2 kV (50 Hz) (EN 60439-1)

¹⁾ In DC operation, within the limits of V_s.

ELECTRONICS - CONTROL VOLTAGE: Y1 - Y2 - Y3

Control voltage	U _v - 2 V DC ... U _v
Control current	≤ 20 mA

Short-circuit current	≤ 250 mA
Short-circuit protection	8 A gG, with tripping characteristics B or C
Reset time	
Manual	≤ 70 ms
Automatic	≤ 600 ms

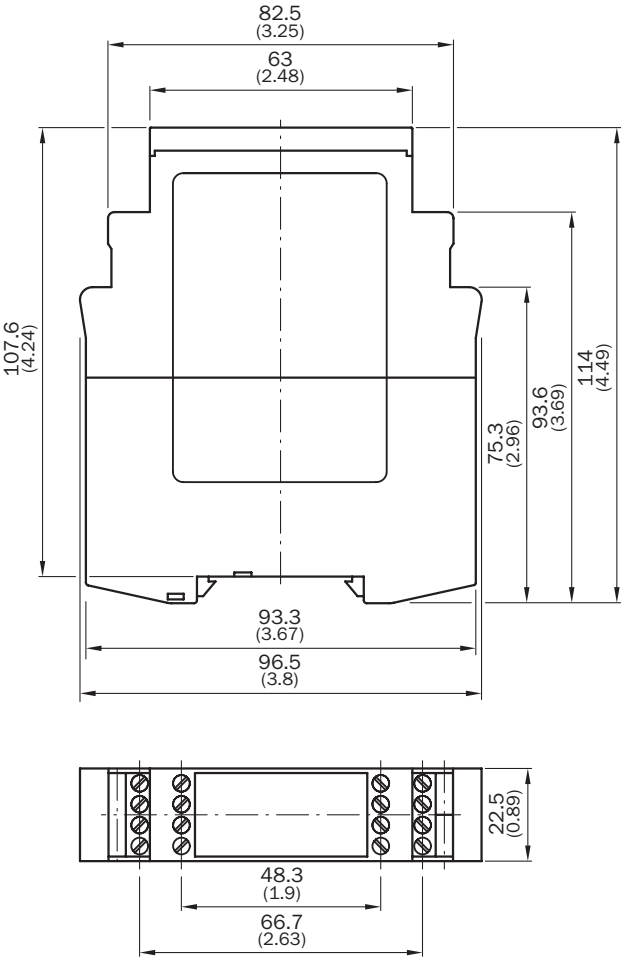
ELECTRONICS - OUTPUT CURRENT PATHS: 13/14, 23/24, 31/32

Response time	(≤ 80 ms) ¹⁾
Number of enabling current paths (N/O)	3, relevant for safety
Number of signaling current paths (normally closed)	1, not safety-relevant
Contact type	Positively driven
Contact material	Silver alloy, gold flashed
Switching voltage	
Enabling current path	5 V AC ... 230 V AC 5 V DC ... 300 V DC
Signaling current path	5 V AC, 5 V DC ... 230 V AC, 300 V DC
Current loading	
Enabling current path	10 mA ... 8 A
Signaling current path	10 mA ... 5 A
Usage category	AC-15/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	5 A (230 V AC) 360 switching cycles/h 5 A (24 V DC) 360 switching cycles/h
Switching frequency	≤ 3600/h
Mechanical life (relay contacts)	1 x 10 ⁷ switching cycles
Electrical life (relay contacts)	1 x 10 ⁶ switching cycles

¹⁾ K1/K2.**MECHANICS**

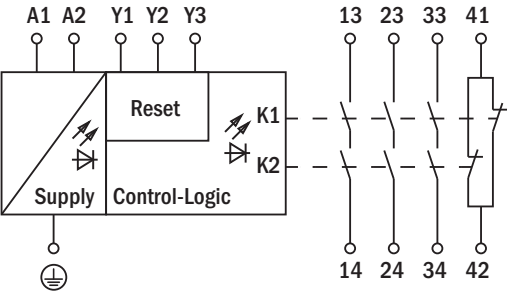
Dimensions (W x H x D)	22.5 mm x 123 mm x 93.5 mm
Contamination rating	3 (EN 50178)
Weight	0.2 kg

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/6034595



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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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