



DATA SHEET

UE23-2MF2A4

UE23-2MF
Safety relays



Illustration may differ

SAFETY RELAYS

UE23-2MF2A4

ORDERING INFORMATION

Type	part no.
UE23-2MF2A4	6026147

Further device versions and accessories at www.sick.com/UE23-2MF

DETAILED TECHNICAL DATA

SAFETY-RELATED PARAMETERS

Category	Category 3 (EN ISO 13849)
Performance level	PL d (EN ISO 13849)
B _{10d} parameter	5.45 x 10 ⁴ switching cycles (AC-15, 230 V, I = 3 A) 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 ⁻⁶ (EN ISO 13849)
T _M (mission time)	20 years (EN ISO 13849)
Stop category	0 (EN 60204-1)

ELECTRONICS - OPERATING DATA

Protection class	II, safe isolation (EN 50178)
Supply voltage V _s	A1, A2 115 V AC (98 V AC ... 132 V AC)
Power consumption	(≤ 3 VA)
Overvoltage category	III
Rated insulation voltage U _i	300 V AC
Rated impulse withstand voltage U _{imp}	6 kV
Test voltage	3.5 kV (50 Hz) (EN 60439-1)

ELECTRONICS - CONTROL VOLTAGE: Y1-Y2-Y3

Control voltage	(≤ 40 V DC)
Control current	≤ 20 mA
Short-circuit current	≤ 250 mA

Short-circuit protection	PTC resistor	
Reset time	Manual	≤ 70 ms
	Automatic	≤ 600 ms
Galvanized decoupling	✓	

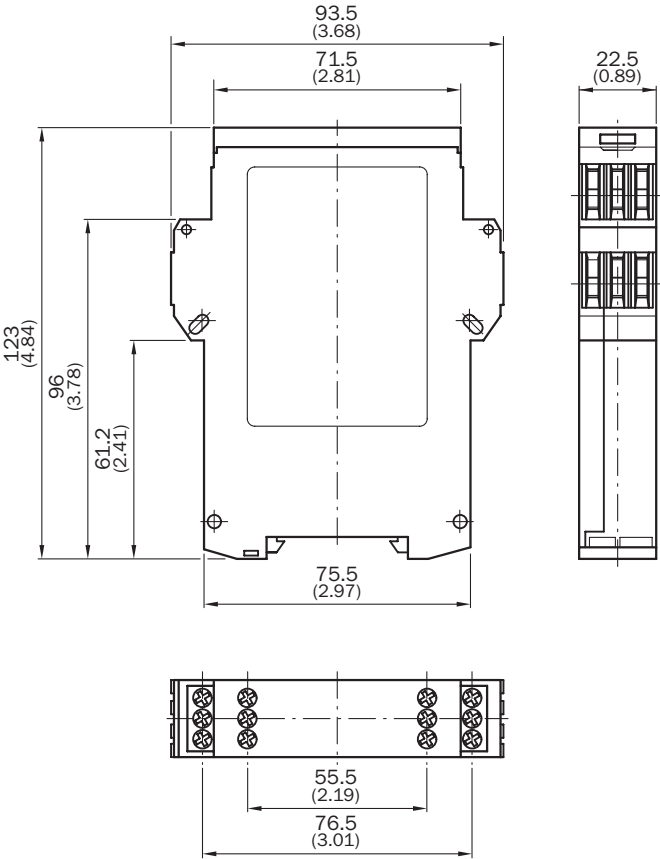
ELECTRONICS - OUTPUT CURRENT PATHS: 13/14, 23/24, 31/32

Response time	(≤ 80 ms) ¹⁾	
Number of enabling current paths (N/O)	2, 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	10 V ... 230 V AC 10 V ... 300 V DC
	Signaling current path	10 V AC, 10 V DC ... 230 V AC, 300 V DC
Current loading	Enabling current path	10 mA ... 6 A
	Signaling 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) 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)	1 x 10 ⁷ switching cycles	
Electrical life (relay contacts)	2 x 10 ⁶ switching cycles	

¹⁾ K1/K2.**MECHANICS**

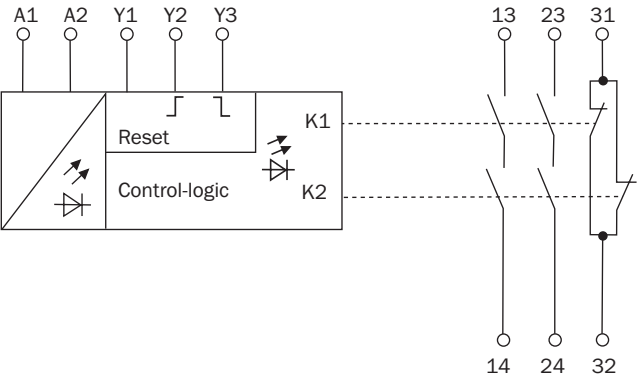
Dimensions (W x H x D)	22.5 mm x 123 mm x 93.5 mm
Contamination rating	3 (EN 50178)
Weight	0.27 kg

DIMENSIONAL DRAWING



Dimensions in mm (inch)

CONNECTION DIAGRAM



Further information as well as suitable accessories, example applications and downloads such as CAD di-
mensional models, operating instructions and software can be found at www.sick.com/6026147



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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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