



SICK Sensor Intelligence.

SAFETY RELAYS

UE23-2MF2D3 | UE23-2MF

SAFETY RELAYS



Ordering information

Туре	part no.
UE23-2MF2D3	6026146

Other models and accessories -> www.sick.com/UE23-2MF

Illustration may differ



Detailed technical data

Safety-related parameters

Category Performance level	Category 3 (EN ISO 13849) 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)
$\ensuremath{PFH}_{\ensuremath{D}}$ (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
	24 V DC (19.2 V DC 30 V DC)
Residual ripple	$(\leq 2.4 V_{pp})^{-1}$
Power consumption	(≤ 1 W)
Overvoltage category	III
Rated insulation voltage U _i	300 V AC
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	6 kV
Test voltage	3.5 kV (50 Hz) (EN 60439-1)

 $^{1)}$ In DC operation, within the limits of ${\rm V}_{S}.$

Electronics - Control voltage: Y1-Y2-Y3

Control voltage	U _V - 2 V DC U _V
Control current	≤ 20 mA

UE23-2MF2D3 | UE23-2MF

SAFETY RELAYS

Short-circuit current	≤ 250 mA
Short-circuit protection	PTC resistor
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)	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

Classifications

ECLASS 5.0	27371990
ECLASS 5.1.4	27371990
ECLASS 6.0	27371819
ECLASS 6.2	27371819
ECLASS 7.0	27371819
ECLASS 8.0	27371819
ECLASS 8.1	27371819
ECLASS 9.0	27371819

UE23-2MF2D3 | UE23-2MF

SAFETY RELAYS

ECLASS 10.0	27371819
ECLASS 11.0	27371819
ECLASS 12.0	27371819
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	41113704

Dimensional drawing





Dimensions in mm (inch)

Connection diagram



SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

