

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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UE43-2MF2D2

UE43-2MF

SAFETY RELAYS





Ordering information

Туре	Part no.
UE43-2MF2D2	6024893

Other models and accessories → www.sick.com/UE43-2MF

Illustration may differ



Detailed technical data

Safety-related parameters

Safety integrity level	SIL3 (IEC 61508) SILCL3 (EN 62061)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
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)
$\ensuremath{PFH_D}$ (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)
Stop category	0 (EN 60204-1)

Interfaces

Connection type	Fixed screw terminals
Number of enable current (N/O) contacts	2, relevant for safety

Electrical data

Operating data

Voltage supply	A1, A2
Output circuit > 25 V AC / 60 V DC	PELV
Output circuit $\leq 25 \text{ V AC} / 60 \text{ V DC}$	PELV or SELV
Supply voltage V _s	A1, A2
	24 V AC/DC (20.4 V AC/DC 26.4 V AC/DC)
Residual ripple	$(\leq 2.4 \text{ V}_{pp})^{1)}$

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

Power consumption	(≤ 4.6 VA (AC)) (≤ 2.6 W (DC))
Overvoltage category	II
Rated insulation voltage U _i	300 V AC
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	4 kV
Test voltage	2 kV (50 Hz) (EN 60439-1)

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

Control voltage: S33/S11, S21

Control voltage	22 V DC (≥ 17.4 V DC)
Control current	40 mA 100 mA
Short-circuit current	≤ 2 A, between S33 / S11 and S21
Short-circuit protection	PTC resistor

Input circuits: S12, S31, S22, S34, S35

Input current	
	≤ 100 mA ≤ 50 mA
Reset time	
Manual	(≤ 40 ms)
Automatic	(≤ 500 ms)
Activation time of reset button	≥ 50 ms
Synchronous time monitoring	≤ 500 ms
Cable resistance	≤ 35 Ω

Electrical output circuits: 13/14, 23/24, 31/32

Response time	25 ms (≤ 25 ms) ¹⁾
Number of enable current (N/O) contacts	2, relevant for safety
Number of signalling current (N/C) contacts	1, not safety-relevant
Contact type	Positively driven
Contact material	Silver alloy, gold flashed
Switching voltage	
Enable current contact	10 V AC 230 V AC 10 V DC 300 V DC
Signalling current contact	10 V AC, 10 V DC 230 V AC, 300 V DC
Current-carrying capacity per OSSD	
Enable current contact	10 mA 6 A
Signalling current contact	10 mA 6 A
Total current	≤ 12 A
Usage category	AC-15/DC-13
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

¹⁾ K1/K2.

UE43-2MF2D2 | UE43-2MF

SAFETY RELAYS

Mechanical life (relay contacts)	1 x 10 ⁷ switching cycles
Electrical life (relay contacts)	1 x 10 ⁵ switching cycles

¹⁾ K1/K2.

Mechanical data

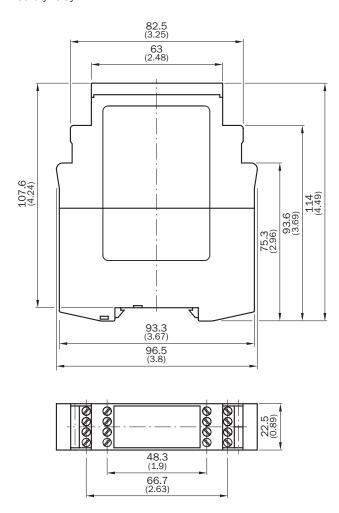
Dimensions (W x H x D)	22.5 mm x 114 mm x 96.5 mm
Weight	0.2 kg

Classifications

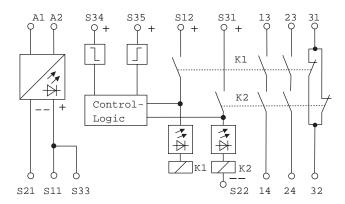
ECI@ss 5.0	27371990
ECI@ss 5.1.4	27371990
ECI@ss 6.0	27371819
ECI@ss 6.2	27371819
ECI@ss 7.0	27371819
ECI@ss 8.0	27371819
ECI@ss 8.1	27371819
ECI@ss 9.0	27371819
ETIM 5.0	EC001449
ETIM 6.0	EC001449
UNSPSC 16.0901	41113704

Dimensional drawing (Dimensions in mm (inch))

Safety relay



Connection diagram



SICK AT A GLANCE

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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.

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