

UE42-2HD2D2 UE42-2HD

SICK Sensor Intelligence.

SAFETY RELAYS

UE42-2HD2D2 | UE42-2HD

SAFETY RELAYS



Ordering information

Туре	Part no.
UE42-2HD2D2	6024878

Other models and accessories -> www.sick.com/UE42-2HD

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)
$\ensuremath{PFH}_{\ensuremath{D}}$ (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)

Electrical data

Operating data

Voltage supply	A1, A2
Output circuit > 25 V AC / 60 V DC	PELV
Output circuit ≤ 25 V AC / 60 V DC	PELV or SELV
Supply voltage V _S	A1, A2
	24 V DC (20.4 V DC 26.4 V DC)
Residual ripple	$(\leq 2.4 V_{pp})^{-1}$
Power consumption	(≤ 2.4 W (DC))
Overvoltage category	П
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)

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

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Control vortes24 VDCControl vortest40 mAShort-incut vortestoVC realistorShort-incut protectionVC realistorCoupta current paths: 13/14.23/24.3123Si realistorRespons timeSi realistorNumber of analing current paths (MO)2. relevant for safety velocutionNumber of analing current paths (MO)2. relevant for safety velocutionContact typePostively drivenContact typePostively drivenContact typeVAC230 VAC 10 VPC300 VPCSignaling current pathsVAC230 VAC 10 VPC300 VPCSignaling current pathVAC230 VAC 10 VPC300 VPCContact typeVAC230 VAC 10 VPC300 VPCContact type10 AM6 A 13 Signaling current pathContact type10 AM6 A 13 Signaling current pathContact type10 AM6 A 13 Signaling current pathState current (Velocution12 AVacion 20 VAC320 VAC) 3000 switching systes/h 3 A (230 VAC) 3000 switching systes/h 3 A (2	Input circuits: Y11, Y12, Y14, Y21, Y22, Y23		
Short-circuit current2A, between YL4, Y22 and A2Boht-circuit protectionPCr cessionOutput current paths: 13/4, 23/24, 23/3None s60 ms (80 ms)Response time0, detexant for safetyNumber of enabling current paths (NOM)1, not safety rolevant.Contact typeDesiteky drivenContact typeDesiteky drivenContact typeDesiteky drivenContact typeDesiteky drivenContact typeDesiteky drivenSignaling current biDi V2 230 VAC 130 V DC 230 VAC 130 VAC 230 VAC 140 VAC	Control voltage	24 V DC	
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Output current paths: 13/14, 23/24, 31/32Response timeSin (s (S 0) ms)Number of enabling current paths (N/O)2, relevant for safelyNumber of signaling current paths (normal)In ot safety relevant.Contact typePositively driveContact typePositively driveContact typePositively driveContact typePositively driveContact typePositively driveEnabling current paths: (N/O)Signaling current pathSignaling current path10 NA 230 VACSignaling current path10 NA 230 VACSignaling current path10 NA 6ASignaling current path21 S/20 VAC (190 Souriching cycles/hCarted operating current (voltage)43 (230 VAC (190 Souriching cycles/hSwitching requerey63 Soury (190 SOU)Switching cycles/h34 (230 VAC (190 Souriching cycles/hSwitching requerey63 Soury (190 SOU Sourching cycles/hSwitching requerey13 Soury (190 SOU S	Short-circuit current	2 A, between Y14, Y22 and A2	
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eCl@ss 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))

Safety relay





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

