





SAFETY RELAYS

UE10-2FG3D0 | UE10-2FG

SAFETY RELAYS



Ordering information

Туре	Part no.
UE10-2FG3D0	1043916

Other models and accessories -> www.sick.com/UE10-2FG

Illustration may differ



Detailed technical data

Safety-related parameters

Safety integrity level	SIL3 (IEC 61508) ¹⁾ SILCL3 (EN 62061) ¹⁾
Category	Category 4 (EN ISO 13849) 1)
Performance level	PL e (EN ISO 13849) ¹⁾
B _{10d} parameter	1×10^{5} switching cycles (AC-15, 230 V, I = 2 A) 2.5 x 10^{5} switching cycles (AC-15, 230 V, I = 1 A) 5.4 x 10^{5} switching cycles (DC-13, 24 V, I = 0.5 A) 1×10^{7} switching cycles (DC-13, 24 V, I ≤ 2 A)
$\ensuremath{PFH}\xspace_D$ (mean probability of a dangerous failure per hour)	7.0 x 10 ⁻¹⁰ (EN ISO 13849)
T _M (mission time)	20 years (EN ISO 13849)

¹⁾ If the feedback current path Y1 - Y2 (external device monitoring) is monitored using an appropriate main unit.

Electrical data

Operating data

Voltage supply	B1/A2, B2/A2
Output circuit > 25 V AC / 60 V DC	PELV
Output circuit ≤ 25 V AC / 60 V DC	PELV or SELV
Residual ripple	$(\le 2.4 V_{pp})^{-1}$
Power consumption	(≤ 2 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	1.2 kV (50 Hz) (EN 60439-1)

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

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Input circuits: B1, B2	
Input voltage	24 V DC (16.8 V DC 27.6 V DC)
Input current	≤ 50 mA
Reset time	≤ 30 ms
Test pulse width	≤ 1 ms
Output current paths: 13/14, 23/24, Y1/Y2	
Response time	(≤ 10 ms)
Number of enabling current paths (N/O)	2, relevant for safety
Number of feedback current paths (normally closed)	1, external device monitoring (EDM)
Contact type	Positively driven
Contact material	Silver alloy, gold flashed
Switching voltage	
	10 V AC/DC 250 V AC/DC
	0.1 V AC/DC 60 V AC/DC
Current-carrying capacity per OSSD	
Enabling current path	
Feedback current path	
Switching capacity	≤ 200 W (DC)
Usage category	AC-15/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	3 A (230 V AC) 4 A (24 V DC)
Mechanical life (relay contacts)	1 x 10 ⁷ switching cycles
Electrical life (relay contacts)	1 x 10 ⁵ switching cycles
Mechanical data	
Dimensions (W x H x D)	17.8 mm x 105.5 mm x 70.8 mm
Contamination rating	3 (EN 50178)
Weight	+ 91 g
Classifications	
eCl@ss 5.0	27371990
eCl@ss 5.1.4	27371990
eCl@ss 6.0	27371819
eCl@ss 6.2	27371819
eCl@ss 7.0	27371819
eCl@ss 8.0	27371819
eCl@ss 8.1	27371819
eCl@ss 9.0	27371819
eCl@ss 10.0	27371819
eCl@ss 11.0	27371819
eCl@ss 12.0	27371819
ETIM 5.0	EC001449

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ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	41113704

Dimensional drawing (Dimensions in mm (inch))

UE10-2FG3, UE12-2FG3



① Only valid for UE12-2FG3

Connection diagram



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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.

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."

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Online data sheet

