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Safety relay for emergency stop and safety door monitoring up to SIL 3 or Cat. 4, PL e in accordance with EN ISO 13849, 2-channel operation, 3 enabling current paths, nominal input voltage: 24 V DC, plug-in screw terminal block

Your advantages

- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508
- · 2 channel control
- 3 enabling current paths, 1 signaling current path
- · Manually monitored and automatic activation in a single device

Commercial data

Item number	2963763
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNA113
Product key	DNA113
Catalog page	Page 21 (IF-2009)
GTIN	4017918878085
Weight per piece (including packing)	186.9 g
Weight per piece (excluding packing)	161.12 g
Customs tariff number	85371098
Country of origin	DE



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Technical data

Product properties

Product type	Safety relays
Product family	PSRclassic
Application	Emergency stop
	Safety door
Control	2-channel
Mechanical service life	approx. 10 ⁷ cycles
Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3
sulation characteristics	
Overvoltage category	Ш
Degree of pollution	2
mes	
Typical response time	typ. 150 ms (For U _s autostart)
Typ. starting time with U _s	typ. 250 ms (with Us / when controlled via A1)
Typical release time	typ. 20 ms (At Us on demand via sensor circuit)
	typ. 45 ms (At Us/on demand via A1)
Restart time	< 1 s (Boot time)
Recovery time	< 1 s (following demand of the safety function)
strical properties	
Maximum power dissipation for nominal condition	16.44 W (U _S = 26.4 V, I_L^2 = 72 A ² , $P_{Total max}$ = 2.04 W + 14.4 W)
Nominal operating mode	100% operating factor
	250 V
Rated insulation voltage	

Rated control circuit supply voltage Us24 V DC -15 % / +10 %Rated control supply current Istyp. 70 mA (at Us)Power consumption at Ustyp. 1.68 WInrush current< 3.5 A (typ. with Us, Δt = 3 ms)</th>Filter time5 ms (in the event of voltage dips at Us)Protective circuitSerial protection against polarity reversal; Suppressor diode

Input data

Digital: Logic (S12, S22)	
Description of the input	safety-related
Number of inputs	2
Input voltage range "0" signal	0 V DC 5 V DC (S12)
Input voltage range "1" signal	20.4 V 26.4 V (S12)
Input current range "0" signal	0 mA 2 mA



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Inrush current	< 100 mA (typ. with U _S at S12)
	> -100 mA (typ. with U _S at S22)
Filter time	No test pulses permitted
Concurrence	00
Max. permissible overall conductor resistance	50 Ω
Protective circuit	Suppressor diode
Current consumption	38 mA (typ. with U _S at S12)
	-38 mA (typ. with U _S at S22)
Digital: Start circuit (S34)	
Description of the input	non-safety-related
Number of inputs	1
Input voltage range "1" signal	20.4 V 26.4 V
Input voltage range "1" signal Inrush current	20.4 V 26.4 V < 6 mA (typ. with U _S)
Inrush current	< 6 mA (typ. with U _S)
Inrush current Filter time	< 6 mA (typ. with U _S) No test pulses permitted

Output data

Relay: Enabling current paths (13/14, 23/24, 33/34)

Output description	2 N/O contacts in series, safety-related, floating
Number of outputs	3
Contact switching type	3 enabling current paths
Contact material	AgSnO ₂
Switching voltage	min. 10 V AC/DC
	max. 250 V AC/DC
Switching capacity	min. 100 mW
Inrush current	min. 10 mA
	max. 6 A
Limiting continuous current	6 A
Sq. Total current	72 A ² (observe derating)
Switching frequency	max. 0.5 Hz
Mechanical service life	10 ⁷ cycles
Output fuse	10 A gL/gG (High demand)
	4 A gL/gG (Low demand)

Relay: Signaling current path (41/42)

Output description	2 N/C contacts parallel, non-safety-related, floating
Number of outputs	1
Contact switching type	1 signaling current path
Contact material	AgSnO ₂
Switching voltage	min. 10 V AC/DC
	max. 250 V AC/DC



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Switching capacity	min. 100 mW
Inrush current	min. 10 mA
	max. 6 A
Limiting continuous current	6 A (Signaling current path)
Sq. Total current	36 A ²
Switching frequency	max. 0.5 Hz
Mechanical service life	10 ⁷ cycles
Interrupting rating (ohmic load) max.	Observe derating and load limit curve
Output fuse	6 A gL/gG

Connection data

pluggable	yes	
Conductor connection		
Connection method	Screw connection	
Conductor cross section rigid	0.2 mm ² 2.5 mm ²	
Conductor cross section flexible	0.2 mm ² 2.5 mm ²	
Conductor cross-section AWG	24 12	
Stripping length	7 mm	
Screw thread	M3	
Tightening torque	0.5 Nm 0.6 Nm	

Signaling

Status display	3 x LED (green)
Operating voltage display	1 x LED (green)

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color (Housing)	yellow (RAL 1018)
Housing material	PA

Characteristics

Stop category	0
afety data: EN ISO 13849	
Category	4



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Safety Integrity Level (SIL)	3	
Safety data: IEC 61508 - Low demand		
Safety Integrity Level (SIL)	3	
Safety data: EN IEC 62061		
Safety Integrity Level (SIL)	3	

Environmental and real-life conditions

Ambient conditions		
Degree of protection	IP20	
Min. degree of protection of inst. location	IP54	
Ambient temperature (operation)	-20 °C 55 °C (observe derating)	
Ambient temperature (storage/transport)	-40 °C 70 °C	
Maximum altitude	≤ 2000 m (Above sea level)	
Max. permissible humidity (storage/transport)	75 % (on average, 85% infrequently, non-condensing)	
Max. permissible relative humidity (operation)	75 % (on average, 85% infrequently, non-condensing)	
Shock	15g	
Vibration (operation)	10 Hz 150 Hz, 2g	

Approvals

CE	E		
Identification	CE-compliant		
Mounting			
Mounting type	DIN rail mounting		

Mounting type	DIN rail mounting
Assembly note	See derating curve
Mounting position	vertical or horizontal



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Drawings



Single-channel safety door monitoring



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Two-channel safety door monitoring



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Approvals

V: To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2963763







Functional Safety Approval ID: 968/EZ 404.07/22



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Classifications

ECLASS

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	ECLASS-13.0	27371819			
ETIM					
	ETIM 9.0	EC001449			
UNSPSC					
	UNSPSC 21.0	39122205			



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	77d74c49-23b7-4bdb-92d0-34cfd3aa6b30
EF3.0 Climate Change	
CO2e kg	6.792 kg CO2e

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