

2963721

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Safety relay for two-hand control devices in accordance with ISO 13851 type IIIC to SIL 3 or Cat. 4, PL e in accordance with EN ISO 13849, synchronous activation monitoring < 0.5 s, 2 N/O contacts, 1 N/C contact, safe isolation, width: 22.5 mm, pluggable screw terminal block

Your advantages

- · For two-hand controls in accordance with ISO 13851 type IIIC
- Up to Cat. 4/PL e in accordance with ISO 13849-1, SIL 3 in accordance with EN IEC 62061, SIL 3 in accordance with IEC 61508
- · 2 channel control
- Synchronous activation monitoring < 0.5 s
- · Automatic activation
- Two enabling and one signaling current path

Commercial data

Item number	2963721
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNA141
Product key	DNA141
Catalog page	Page 231 (C-6-2019)
GTIN	4017918818692
Weight per piece (including packing)	220.25 g
Weight per piece (excluding packing)	163.12 g
Customs tariff number	85371098
Country of origin	DE



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Technical data

Notes

ı	Note on application		
	Note on application	Only for industrial use	
Product properties			
	Product type	Safety relays	
	Product family	PSRclassic	
	Application	Two-hand control	
		Safety door	
	Mechanical service life	approx. 10 ⁷ cycles	

Insulation characteristics

Relay type

insulation characteristics	
Overvoltage category	III
Degree of pollution	2

Electromechanical relay with force-guided contacts in

accordance with IEC/EN 61810-3

Electrical properties

Maximum power dissipation for nominal condition	1.44 W
Nominal operating mode	100% operating factor
Rated insulation voltage	250 V
Rated surge voltage/insulation	6 kV / Safe isolation, increased insulation

Input data

General

Manada al Januaria della san III	041/40/D0
Nominal input voltage U _N	24 V AC/DC
Input voltage range	20.4 V AC/DC 26.4 V AC/DC
Input voltage range in reference to \mathbf{U}_{N}	0.85 1.1
Typical input current at U _N	125 mA AC
	60 mA DC
Voltage at input/start and feedback circuit	approx. 24 V DC
Typical response time	50 ms
Typical release time	20 ms
Concurrence	< 0.5 s
Recovery time	1 s
Protective circuit	Fuse; PTC resistor
	Surge protection; Suppressor diode
Operating voltage display	Green LED
Status display	LED (green)

Output data



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Contact switching type	2 enabling current paths
	1 signaling current path
Contact material	AgSnO ₂ , + 0.2 µm Au
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	15 V AC/DC
Limiting continuous current	6 A (N/O contact)
	5 A (N/C contact)
Maximum inrush current	6 A
Inrush current, minimum	25 mA
Interrupting rating (ohmic load) max.	144 W (24 V DC, τ = 0 ms)
	288 W (48 V DC, τ = 0 ms)
	110 W (110 V DC, τ = 0 ms)
	88 W (220 V DC, τ = 0 ms)
	1500 VA (250 V AC, T = 0 ms)
Maximum interrupting rating (inductive load)	42 W (24 V DC, τ = 40 ms)
	42 W (48 V DC, τ = 40 ms)
	42 W (110 V DC, τ = 40 ms)
	42 W (220 V DC, τ = 40 ms)
Switching capacity min.	0.4 W
Switching capacity (360/h cycles)	4 A (24 V DC)
	4 A (230 V AC)
Switching capacity (3600/h cycles)	2.5 A (24 V (DC13))
	3 A (230 V (AC15))
Output fuse	10 A gL/gG NEOZED (N/O contact)
	6 A gL/gG NEOZED (N/C contact)
lay	
Output description	safety-related N/O contacts
Number of outputs	2

Connection data

Connection technology

pluggable	yes	
Conductor connection		
Connection method	Screw connection	
Conductor cross section rigid	0.2 mm² 2.5 mm²	
Conductor cross section flexible	0.2 mm² 2.5 mm²	
Conductor cross-section AWG	24 12	
Stripping length	7 mm	
Screw thread	M3	

Dimensions

Width	22.5 mm
Height	99 mm



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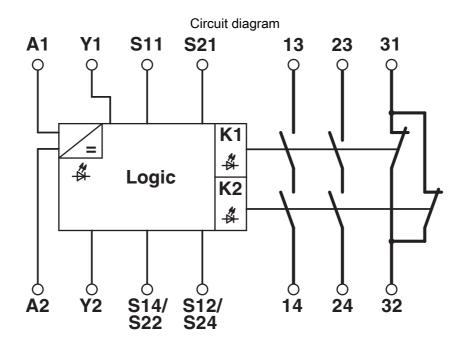
erial specifications	
Color (Housing)	yellow (RAL 1018)
Housing material	PA
racteristics	
ıfety data	
Stop category	0
Type class	IIIC
ıfety data: EN ISO 13849	
Category	4
Performance level (PL)	е
ıfety data: IEC 61508 - High demand	
Safety Integrity Level (SIL)	3
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fety data: IEC 61508 - Low demand	
Safety Integrity Level (SIL)	3
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afety data: EN IEC 62061 Safety Integrity Level (SIL) Fronmental and real-life conditions Inbient conditions Degree of protection Min. degree of protection of inst. location Ambient temperature (operation) Ambient temperature (storage/transport)	3 IP20 IP54 -20 °C 55 °C -40 °C 70 °C
afety data: EN IEC 62061 Safety Integrity Level (SIL) fronmental and real-life conditions abient conditions Degree of protection Min. degree of protection of inst. location Ambient temperature (operation) Ambient temperature (storage/transport) Maximum altitude	IP20 IP54 -20 °C 55 °C -40 °C 70 °C max. 2000 m (Above sea level) 75 % (on average, 85% infrequently, non-condensing)
afety data: EN IEC 62061 Safety Integrity Level (SIL) Fronmental and real-life conditions Inbient conditions Degree of protection Min. degree of protection of inst. location Ambient temperature (operation) Ambient temperature (storage/transport) Maximum altitude Max. permissible humidity (storage/transport)	IP20 IP5420 °C 55 °C40 °C 70 °C max. 2000 m (Above sea level)



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Drawings



Block diagram



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Approvals

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Functional Safety

Approval ID: 01/205/0542.04/23



cULus ListedApproval ID: E140324



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Classifications

	ECLASS-13.0	27371821
ΕΊ	ГІМ	
	ETIM 9.0	EC001452
U	NSPSC	
	UNSPSC 21.0	39121100



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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	ad09c00b-7a7f-44ce-99b7-1943080c4694

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PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au