

2963983

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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 Push-in 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	2963983
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DNA
Product key	DNA141
Catalog page	Page 231 (C-6-2019)
GTIN	4017918904807
Weight per piece (including packing)	221.1 g
Weight per piece (excluding packing)	192.9 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	Two-hand control
	Safety door
Mechanical service life	approx. 10 ⁷ cycles
Relay type	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
Air clearances and creepage distances between the power circuits	
Air clearances and creepage distances between the power circuits Rated insulation voltage	250 V

Input data

General

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 ${\rm U}_{\rm N}$	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	Green LED

Output data

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)

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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, т = 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)

Output description	safety-related N/O contacts
Number of outputs	2

Connection data

onnection technology	
pluggable	yes
conductor connection	
Connection method	Push-in connection
Conductor cross section rigid	0.2 mm ² 1.5 mm ²
Conductor cross section flexible	0.2 mm ² 1.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ² (only together with CRIMPFOX 6)
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ² (only together with CRIMPFOX 6)
Conductor cross-section AWG	24 16
Stripping length	8 mm

Dimensions

Width	22.5 mm
Height	112 mm
Depth	114.5 mm

Material specifications

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



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Characteristics

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IIIC
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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
Ambient temperature (storage/transport)	-40 °C 70 °C
Maximum altitude	max. 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

Conformity/Approvals	
Conformance	CE-compliant

Standards and regulations

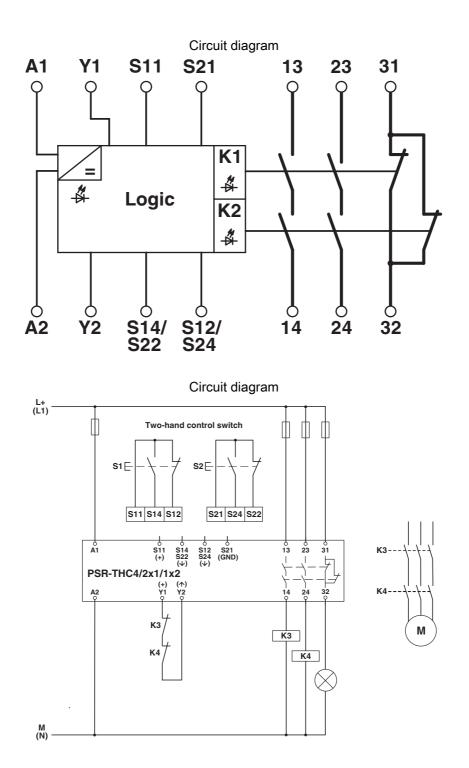
	Air clearances and creepage distances between the power circuits				
	Standards/regulations	IEC 60664-1			
Mounting					
	Mounting type	DIN rail mounting			
	Mounting position	any			



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Drawings





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Approvals

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EAC Approval ID: TR_TS_D_00573_c
UL Listed Approval ID: FILE E 140324
Approval ID: FILE E 140324
Approval ID: BB 60006385 0001
Approval ID: 968/EZ 346.04/23
cULus Listed



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Classifications

ECLASS

ECLASS-11.0	27371821
ECLASS-13.0	27371821
ECLASS-12.0	27371821

ETIM

	ETIM 9.0	EC001452			
UNSPSC					
	UNSPSC 21.0	39121100			

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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