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Safety relay for emergency stop, safety doors, light grids up to SIL 3, Cat. 4, PL e, 1- or 2channel operation, cross-circuit detection, can be retriggered, off-/on delay of 0.2 s to 300 s, 5 enabling current paths, $U_S = 24$ V DC, plug-in Push-in 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
- Low housing width of only 22.5mm
- 1- and 2-channel control
- 5 enabling current paths, 1 digital signal output
- · Manually monitored and automatic activation in a single device

Commercial data

Item number	1015526
Packing unit	1 рс
Minimum order quantity	1 pc
Sales key	DNA181
Product key	DNA181
Catalog page	Page 227 (C-6-2019)
GTIN	4055626496566
Weight per piece (including packing)	246 g
Weight per piece (excluding packing)	214.73 g
Customs tariff number	85371098
Country of origin	DE

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Rated control circuit supply voltage U_{S}



Technical data

Notes

Note on application	Only for industrial use
duct properties	
	Sofaty roloup
Product type	Safety relays
Product family	PSRmini
Application	Emergency stop
	Safety door
Control	Light grid 1 and 2 channel
Relay type	Electromechanical relay with force-guided contacts in accordance with IEC/EN 61810-3
nsulation characteristics	
Overvoltage category	III
Degree of pollution	2
imes	
Typical response time	< 50 ms (automatic start)
	< 50 ms (manual, monitored start)
Typ. starting time with U _s	500 ms (with U _s when controlled via A1)
Typical release time	< 25 ms (when controlled via S12 and S22 (only for undelayed contacts))
	< 10 ms (when controlled via A1; applicative deactivation via A1/A2 is not permitted)
Delay time range	0.2 s 300 s ±5 % (can be set for 47/48/58)
Restart time	< 1 s (Boot time)
Recovery time	500 ms (following demand of the safety function)
ctrical properties	
Maximum power dissipation for nominal condition	8.1 W (At U _S = 30 V, I _L ² = 108 A ²)
Nominal operating mode	100% operating factor
Rated insulation voltage	250 V AC
Rated surge voltage/insulation	See data sheet, section "Insulation coordination".
	Safe isolation, reinforced insulation 6 kV between (A1, A2, S11 S12, S21, S22, S34, M1) and enabling current path (13/14) and enabling current path (23/24/34) and enabling current path (47/48/58)
upply	
Designation	A1/A2

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24 V DC -20 % / +25 %



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Rated control supply current I _S	typ. 80 mA
Power consumption at U _S	typ. 1.92 W
Inrush current	typ. 28 A (Δt = 30 µs at U _s)
Filter time	1 ms (For the logic. At A1 in the event of voltage dips at ${\rm U}_{\rm s}^{})$
Protective circuit	Serial protection against polarity reversal; Suppressor diode

Input data

mit frequency	min. 0 Hz
	max. 1 Hz
al: Sensor circuit (S12, S22)	
escription of the input	safety-related sensor inputs
lumber of inputs	2
nput voltage range "0" signal	0 V DC 5 V DC
nput voltage range "1" signal	11 V DC 30 V DC
nput current range "0" signal	0 mA 2 mA
nrush current	< 11 mA (typ. with U _S)
ilter time	max. 3 ms (Test pulse width of low test pulses)
	min. 21 ms (Test pulse rate for low test pulse)
oncurrence	ω
imit frequency	min. 0 Hz
	max. 1 Hz
lax. permissible overall conductor resistance	150 Ω
rotective circuit	Varistor
urrent consumption	< 4.5 mA (typ. with U _S)
tal: Start circuit (S34)	
escription of the input	non-safety-related
lumber of inputs	1
nput voltage range "0" signal	0 V DC 5 V DC
nput voltage range "1" signal	11 V DC 30 V DC
nput current range "0" signal	0 mA 2 mA
nrush current	< 8.6 mA (typ. with U _S)
ilter time	max. 1 ms (Test pulse width of low test pulses)
	min. 21 ms (Test pulse rate for low test pulse)
imit frequency	min. 0 Hz
	max. 1 Hz
lax. permissible overall conductor resistance	150 Ω
rotective circuit	Varistor
urrent consumption	< 3.2 mA (typ. with U _S)

Output data

Relay: Enabling current paths (13/14, 23/24/34, 47/48/58)

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Output description	2 N/O contacts each in series, safety-related, floating
Number of outputs	3 (undelayed: 13/14, 23/24/34)
	2 (delayed: 47/48/58)
Contact switching type	5 enabling current paths
Contact material	AgCuNi +0.2 μm 0.4 μm Au / AgSnO ₂ +0.2 μm Au
Switching voltage	min. 12 V AC/DC
	max. 250 V AC/DC (Observe the load curve)
Switching capacity	min. 60 mW
Inrush current	min. 5 mA
	max. 6 A
Limiting continuous current	6 A
Sq. Total current	108 A ² (observe derating)
Switching frequency	0.5 Hz (depending on the set delay time)
Mechanical service life	10x 10 ⁶ cycles
Output fuse	6 A gL/gG
	4 A gL/gG (for low-demand applications)

Signal: M1

Output description	PNP
	non-safety-related
Number of outputs	1
Voltage	approx. 23 V DC (U _S - 1 V)
Current	max. 100 mA
Maximum inrush current	500 mA (Δt = 10 ms at U _s)
Protective circuit	Suppressor diode
Short-circuit protection	Yes

Clock: S11, S21

Output description	PNP
	non-safety-related
Number of outputs	2
Voltage	corresponds to U _S
Current	max. 100 mA
Maximum inrush current	500 mA (Δt = 10 ms at U _s)
Protective circuit	Suppressor diode
Short-circuit protection	Yes

Connection data

Connection 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		



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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
naling	
Status display	5 x bi-color LED
ensions	
Width	22.5 mm
Height	117.5 mm
Depth	114.5 mm
erial specifications	
Color (Housing)	yellow (RAL 1018)
Housing material	PA
racteristics	
Stop category	0 1
afety data: EN ISO 13849	
Category	4
Performance level (PL)	e (4 A DC13; 3 A AC15; 8760 switching cycles/year)
afety data: IEC 61508 - High demand	
Safety Integrity Level (SIL)	3
afety data: IEC 61508 - Low demand	
Safety Integrity Level (SIL)	3
afety data: EN IEC 62061	
Safety Integrity Level (SIL)	3
ironmental and real-life conditions	
nbient conditions	
Degree of protection	IP20
Min. degree of protection of inst. location	IP54
Ambient temperature (operation)	-35 °C 60 °C (observe derating)
Ambient temperature (storage/transport)	-40 °C 85 °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)
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	Vibration (operation)	10 Hz 150 Hz, 2g		
Ap	Approvals			
(CE			
	Identification	CE-compliant		
Mounting				
	Mounting type	DIN rail mounting		
	Assembly note	See derating curve		
	Mounting position	vertical or horizontal		



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Drawings



Block diagram



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1015526



Functional Safety Approval ID: 01/205/5486.02/24

CULus Listed Approval ID: E140324





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Classifications

ECLASS

	ECLASS-13.0	27371819	
ETIM			
	ETIM 9.0	EC001449	
UNSPSC			
	UNSPSC 21.0	39122200	



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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	3efdd2ea-dc63-46a1-9231-1f96d79904e0

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