1480226

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Safe coupling relay with force-guided contacts, electrically isolated, 2 changeover contacts, 1channel, fixed screw terminal block, width: 14 mm

Commercial data

Item number	1480226
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	DN01
Product key	DNA162
GTIN	4063151897741
Weight per piece (including packing)	80.38 g
Weight per piece (excluding packing)	76 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Notes

Note on application	
Note on application	Only for industrial use
Product properties	

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Product type	Coupling relay
Product family	PLC-INTERFACE
Application	Forcibly guided contacts
Mechanical service life	approx. 10 ⁷ cycles
Relay type	Electromechanical relay in accordance with IEC/EN 61810
Insulation characteristics	

Overvoltage category	III
Pollution degree	2
Overvoltage category	III
Degree of pollution	2

Times

Typ. starting time with U _s	< 70 ms (when controlled via A1)
Typical release time	< 50 ms (on demand via A1)
Recovery time	500 ms (following demand of the safety function)

Electrical properties

Maximum power dissipation for nominal condition	4.825 W (U _B = 30 V, U _S = 24 V, I _S = 30 mA, I _L ² = 37 A, R _{contact} = 0.1 Ω)
Nominal operating mode	100% operating factor
Rated insulation voltage	250 V AC
Rated surge voltage/insulation	Basic insulation 4 kV between all current paths and housing
	Safe isolation, reinforced insulation 6 kV between 250 V load current paths and 24 V logic paths

Supply

- 11 - 5	
Designation	A1/A2
Rated control circuit supply voltage U _S	21.6 V DC 28.8 V DC
Rated control circuit supply voltage U _S	24 V DC -10 % / +20 %
Rated control supply current I _S	30 mA
Inrush current	typ. 100 mA (Δt = 10 ms at U _s)
Filter time	1 ms (Test pulse width, high test pulse and low test pulse)
	1 s (Test pulse rate, high test pulse and low test pulse)
Power consumption at U _D	650 mW (to U _S)
Protective circuit	Serial protection against polarity reversal; Suppressor diode, 38. 6 V/600 W
Status display	1 x green LED (PWR)

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Output data

Relay: Relay outputs (11/12/14 21/22/24)

elay: Relay outputs (11/12/14, 21/22/24)	
Output description	safety-related
Number of outputs	2
Contact switching type	2 changeover contacts
Contact material	AgNi
Switching capacity	min. 150 mW (N/O contact / N/C contact)
Inrush current	max. 6 A (N/O contact)
	max. 4 A (N/C contact)
Limiting continuous current	6 A (N/O contact, high demand)
	4 A (N/O contact, low demand)
	4 A (N/C contact, high-demand)
	2.4 A (N/C contact, low-demand)
Sq. Total current	37 A ² (N/O contact, high-demand, observe derating)
	16 A ² (N/C contact, high-demand, observe derating)
Switching frequency	max. 1 Hz
Mechanical service life	10 ⁷ cycles
Output fuse	6 A gL/gG
	4 A gL/gG (for low-demand applications)

Connection data

Conductor connection

Connection method	Screw connection
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm ² 2.5 mm ²
Conductor cross-section AWG	26 14
Stripping length	8 mm
Screw thread	M3
Tightening torque	0.5 Nm

Signaling

Operating voltage display	1 x green LED (PWR)

Dimensions

Width	14 mm
Height	80 mm
Depth	104 mm

Material specifications

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

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Characteristics

Safety data: EN ISO 13849		
Category	1	
Performance level (PL)	С	
Safety data, IEC 64509 . Lick demand for 1 shannel wiring (1		
Safety data: IEC 61508 – High-demand for 1-channel wiring (1001 structure)		
Safety Integrity Level (SIL)	1	
Safety data: IEC 61508 – Low-demand for 1-channel wiring (1oo1 structure)		
Safety Integrity Level (SIL)	1	
Safety data: EN IEC 62061		
Safety Integrity Level (SIL)	2	
vironmental and real-life conditions		
Ambient conditions Degree of protection	IP20	
vironmental and real-life conditions		
Ambient conditions Degree of protection	IP20	
Ambient conditions Degree of protection Min. degree of protection of inst. location	IP20 IP54	
Ambient conditions Degree of protection Min. degree of protection of inst. location Ambient temperature (operation)	IP20 IP54 -20 °C 60 °C (observe derating)	
Ambient conditions Degree of protection of inst. location Ambient temperature (operation) Ambient temperature (storage/transport)	IP20 IP54 -20 °C 60 °C (observe derating) -20 °C 85 °C	
Ambient conditions Degree of protection Min. degree of protection of inst. location Ambient temperature (operation) Ambient temperature (storage/transport) Maximum altitude	IP20 IP54 -20 °C 60 °C (observe derating) -20 °C 85 °C ≤ 2000 m (Above sea level)	
Ambient conditions Degree of protection of inst. location Ambient temperature (operation) Ambient temperature (storage/transport) Maximum altitude Max. permissible humidity (storage/transport)	IP20 IP54 -20 °C 60 °C (observe derating) -20 °C 85 °C ≤ 2000 m (Above sea level) 75 % (on average; 95% occasionally, non-condensing)	

Approvals

CE	
Identification	CE-compliant
Electronic devices in rail vehicles	
Electronic devices in rail vehicles Vibration (operation)	10 Hz 150 Hz, amplitude ±0,75 mm, 1g

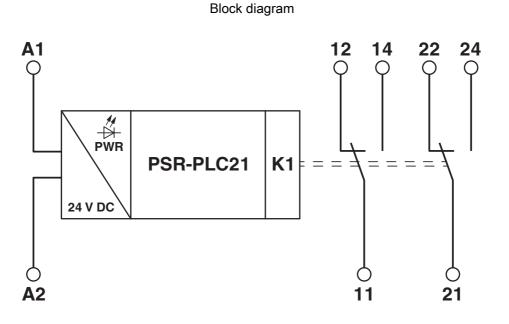
Mounting

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

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Drawings



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Approvals

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Approval ID: 4478015124326

CULus Listed Approval ID: E140324



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Classifications

ECLASS

	ECLASS-13.0	27371601
ET	IM	
	ETIM 9.0	EC001437

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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	51d1e278-3deb-43ec-9dbd-c5c8e6cae076

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