

2982537

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PLC-INTERFACE for railway applications, consisting of basic terminal block with spring-cage connection and integrated miniature solid-state relay, range: 0.7 x  $U_N$  to 1.25 x  $U_N$ , temperature range: -25°C to +70°C, 1 N/O contact, input: 48 V DC, output: 12 - 140 V DC/3 A

# Your advantages

- Shock resistance in accordance with DIN 50155 (requirements in accordance with EN 61373)
- Temperature range: -25 °C ... +70 °C
- Input voltage range of 0.7 1.25 x UN

#### Commercial data

Item number	2982537
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	DK6223
GTIN	4046356082594
Weight per piece (including packing)	35.78 g
Weight per piece (excluding packing)	34.16 g
Country of origin	DE



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# Technical data

### Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	Railway applications
Operating mode	100% operating factor

#### Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

#### Data management status

Data affect data accessed	00 07 0005
Date of last data management	03.07.2025

## Electrical properties

Maximum power dissipation for nominal condition	0.26 W
Test voltage (Input/output)	2.5 kV <sub>rms</sub> (Input/output)
Air clearances and creepage distances between the power circuits	

Rated insulation voltage	160 V DC
Rated surge voltage	4 kV

## Input data

Nominal input voltage U <sub>N</sub>	48 V DC
Input voltage range in reference to $\mathbf{U}_{\mathrm{N}}$	0.7 1.25 (t < 1 s = 0.6 1.4 x U <sub>N</sub> )
Input voltage range	33.6 V DC 60 V DC
Switching threshold "0" signal in reference to $\boldsymbol{U}_{N}$	< 0.3
Switching threshold "1" signal in reference to $U_N$	> 0.6
Typical input current at U <sub>N</sub>	5.5 mA
Typical response time	40 μs
Typical turn-off time	200 μs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Series polarity protection diode
	Surge protection
Surge voltage protection	> 150 V
Transmission frequency	300 Hz

## Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	110 V DC
Output voltage range	12 V DC 140 V DC (t < 1 s = 1.40 x U <sub>N</sub> )
Limiting continuous current	3 A (see derating curve)



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Surge voltage protection	> 150 V
Voltage drop at max. limiting continuous current	< 150 mV
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Parallel polarity protection diode
	Surge protection

#### Connection data

#### Input side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm² 2.5 mm²
Conductor cross-section flexible	0.14 mm² 2.5 mm²
Conductor cross-section AWG	26 14

#### Output side

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross-section rigid	0.14 mm² 2.5 mm²
Conductor cross-section flexible	0.14 mm² 2.5 mm²
Conductor cross-section AWG	26 14

### **Dimensions**

Width	6.2 mm
Height	80 mm
Depth	86 mm

#### Material specifications

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Color	green (RAL 6021)

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

#### Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	IEC 60664
	EN 50178

## Mounting

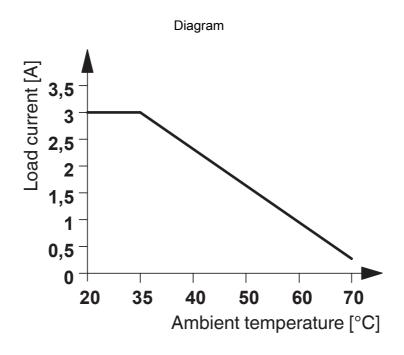
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any



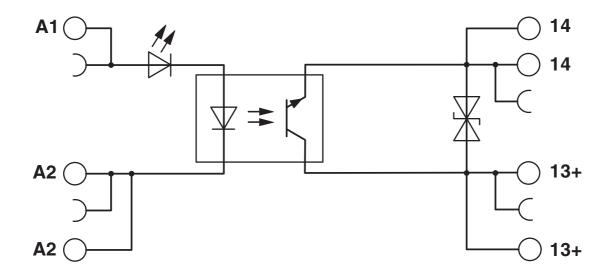
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# Drawings



Circuit diagram





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# Environmental product compliance

#### 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.)	No substance above 0.1 wt%

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