

2966650

https://www.phoenixcontact.com/us/products/2966650

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PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 120 V AC/110 V DC, output: 3 - 33 V DC/3 A

#### Your advantages

- · Slim design
- · Efficient connection to system cabling using V8 adapter
- · RT III sealed solid-state relay
- · Functional plug-in bridges
- · Zero voltage switch at AC output
- · High switching power
- · Integrated input circuit

#### Commercial data

Item number	2966650
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK6223
GTIN	4017918130497
Weight per piece (including packing)	38.9 g
Weight per piece (excluding packing)	32.04 g
Customs tariff number	85364900
Country of origin	DE



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#### Technical data

#### Product properties

Product type	Solid-state relay module
Product family	PLC-INTERFACE
Application	Universal
Operating mode	100% operating factor
Insulation characteristics: Standards/regulations	
Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2
Data management status	
Date of last data management	15.09.2025

#### Electrical properties

Maximum power dissipation for nominal condition	0.42 W
Test voltage (Input/output)	2.5 kV (50 Hz, 1 min., input/output)

#### Input data

Nominal input voltage U <sub>N</sub>	120 V AC
	110 V DC
Nominal voltage (plugged-in solid-state relay)	60 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.9 1.1
Input voltage range	108 V AC 132 V AC
	99 V DC 121 V DC
Switching threshold "0" signal in reference to $\mathbf{U}_{\mathrm{N}}$	≤ 0.3
Switching threshold "1" signal in reference to $\mathrm{U}_{\mathrm{N}}$	≥ 0.8
Typical input current at U <sub>N</sub>	3.5 mA
Typical response time	3.5 ms (at U <sub>N</sub> )
Typical turn-off time	7 ms (at U <sub>N</sub> )
Operating voltage display	Yellow LED
Protective circuit	Bridge rectifier; Bridge rectifier
Transmission frequency	10 Hz

### Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC 33 V DC
Limiting continuous current	3 A (see derating curve)
Maximum inrush current	15 A (10 ms)
Voltage drop at max. limiting continuous current	≤ 200 mV
Output circuit	2-conductor, floating



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Protective circuit	Reverse polarity protection; Polarity protection diode
	Surge protection
onnection data	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.14 mm² 2.5 mm²
Conductor cross-section flexible	0.14 mm² 2.5 mm²
	0.2 mm² 2.5 mm² (Single ferrule)
	2x 0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup> (TWIN ferrule)
Conductor cross-section AWG	26 14
Tightening torque	0.6 Nm 0.8 Nm
mensions	
Width	6.2 mm
Height	80 mm
Depth	94 mm
aterial enecifications	
aterial specifications  Color	gray (RAL 7042)
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions	gray (RAL 7042) V0 (Housing)
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions	
Color Flammability rating according to UL 94 (Housing) nvironmental and real-life conditions	V0 (Housing)
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)	V0 (Housing) -25 °C 60 °C
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE	V0 (Housing)  -25 °C 60 °C  -25 °C 70 °C
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE  Certificate	V0 (Housing)  -25 °C 60 °C  -25 °C 70 °C
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE  Certificate  UKCA	V0 (Housing)  -25 °C 60 °C  -25 °C 70 °C  CE-compliant
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE  Certificate  UKCA  Certificate	V0 (Housing)  -25 °C 60 °C  -25 °C 70 °C  CE-compliant
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE  Certificate  UKCA  Certificate  Shipbuilding approval	V0 (Housing)  -25 °C 60 °C  -25 °C 70 °C  CE-compliant  UKCA-compliant
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE  Certificate  UKCA  Certificate  Shipbuilding approval  Certificate	V0 (Housing)  -25 °C 60 °C  -25 °C 70 °C  CE-compliant  UKCA-compliant
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE  Certificate  UKCA  Certificate  Shipbuilding approval  Certificate  Corrosive gas test	V0 (Housing)  -25 °C 60 °C -25 °C 70 °C  CE-compliant  UKCA-compliant  TAE0000196
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE  Certificate  UKCA  Certificate  Shipbuilding approval  Certificate  Corrosive gas test	V0 (Housing)  -25 °C 60 °C  -25 °C 70 °C  CE-compliant  UKCA-compliant  TAE0000196  ISA-S71.04. G3 Harsh Group
Color Flammability rating according to UL 94 (Housing)  nvironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Ambient temperature (storage/transport)  oprovals  CE  Certificate  UKCA  Certificate  Shipbuilding approval  Certificate  Corrosive gas test  Identification	V0 (Housing)  -25 °C 60 °C  -25 °C 70 °C  CE-compliant  UKCA-compliant  TAE0000196  ISA-S71.04. G3 Harsh Group



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Mounting position

Vibration	B/C
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
MC data	
Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Standards and regulations Standards/regulations	
Standards/regulations	IEC 60947-5-1
Nounting	
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing

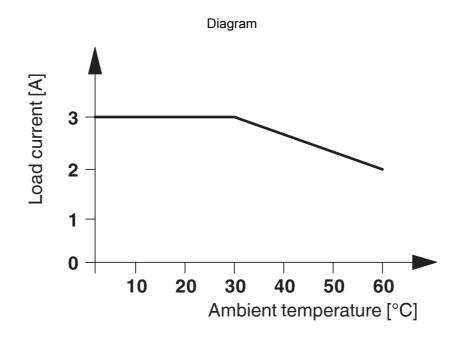
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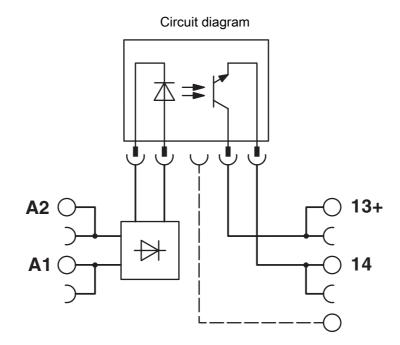


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### **Drawings**







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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2966650



EAC

Approval ID: RU\*C-DE.\*08.B.00010



**DNV GL** 

Approval ID: TAE0000196



**cULus Listed**Approval ID: E140324



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### Classifications

#### **ECLASS**

	ECLASS-13.0	27371604
	ECLASS-15.0	27371604
FI	ГІМ	
	IIVI	
	ETIM 9.0	EC001504
U	NSPSC	
	UNSPSC 21.0	39122300



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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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	9166f160-0bad-4eb7-b79b-d0786d293027

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