

2966799

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PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN 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: 3-48 V DC/100 mA

Your advantages

- Time savings of up to 60 %
- · Efficient connection to system cabling using V8 adapter
- · No need for additional modular terminal blocks
- · Relay modules with safe isolation according to DIN EN 50178 between coil and contact
- Space savings of up to 80 %
- Functional plug-in bridges
- · Sensor connected directly to relay module

Commercial data

Item number	2966799
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	DK6223
GTIN	4017918130619
Weight per piece (including packing)	38.12 g
Weight per piece (excluding packing)	38.12 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	Input function
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	09.07.2025

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_N	120 V AC
	110 V DC
Nominal voltage (plugged-in solid-state relay)	60 V DC
Input voltage range in reference to \mathbf{U}_{N}	0.8 1.1
Input voltage range	96 V AC 132 V AC
	88 V DC 121 V DC
Switching threshold "0" signal in reference to U_N	≤ 0.3
Switching threshold "1" signal in reference to U _N	≥ 0.8
Typical input current at U _N	3.5 mA
Typical response time	6 ms (at U _N)
Typical turn-off time	10 ms (at U _N)
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 48 V DC
Limiting continuous current	100 mA
Voltage drop at max. limiting continuous current	≤ 1 V
Output circuit	2-conductor, floating
Protective circuit	Reverse polarity protection; Polarity protection diode



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	Surge protection
Connection 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 mm ² 2.5 mm ² (Single ferrule)
	2x 0.5 mm ² 1.5 mm ² (TWIN ferrule)
Conductor cross-section AWG	26 14
Tightening torque	0.6 Nm 0.8 Nm
Dimensions	
Width	6.2 mm
Height	80 mm
Depth	94 mm
Берит	34 Hilli
Material specifications	
	gray (RAL 7042)
Color	
Flammability rating according to UL 94 (Housing)	V0 (Housing)
Flammability rating according to UL 94 (Housing)	V0 (Housing)
Flammability rating according to UL 94 (Housing) Environmental and real-life conditions Ambient conditions Ambient temperature (operation)	-25 °C 60 °C
Flammability rating according to UL 94 (Housing) Environmental and real-life conditions Ambient conditions	
Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport)	-25 °C 60 °C
Flammability rating according to UL 94 (Housing) Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals	-25 °C 60 °C
Flammability rating according to UL 94 (Housing) Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE	-25 °C 60 °C -25 °C 70 °C
Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate	-25 °C 60 °C
Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA	-25 °C 60 °C -25 °C 70 °C
Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate	-25 °C 60 °C -25 °C 70 °C
Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval	-25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant
Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate	-25 °C 60 °C -25 °C 70 °C
Flammability rating according to UL 94 (Housing) Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval	-25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant
Flammability rating according to UL 94 (Housing) Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate	-25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant
Flammability rating according to UL 94 (Housing) Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test	-25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant TAE0000196
Flammability rating according to UL 94 (Housing) Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test	-25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group
Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification	-25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group
Environmental and real-life conditions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Approvals CE Certificate UKCA Certificate Shipbuilding approval Certificate Corrosive gas test Identification Shipbuilding data	-25 °C 60 °C -25 °C 70 °C CE-compliant UKCA-compliant TAE0000196 ISA-S71.04. G3 Harsh Group EN 60068-2-60



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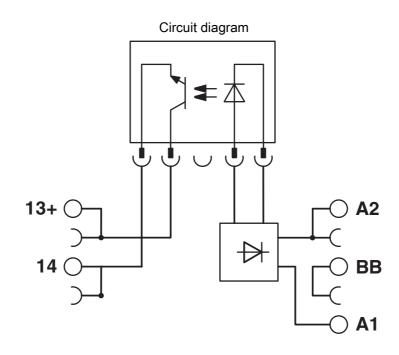
EMC	В
Enclosure	Required protection according to the Rules shall be provided upon installation on board
EMC data	
Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Standards and regulations Standards/regulations	
Standards/regulations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



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Drawings





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2966799



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
ΕΊ	ТІМ	
	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: n/a)
SCIP	7a50ead1-4d0f-4fe6-b349-994eecb25af1

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