

2900380

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PLC-INTERFACE for railway applications, consisting of basic terminal block with push-in connection and integrated miniature solid-state relay, range: 0.7 x  $\rm U_N$  to 1.25 x  $\rm U_N$ , temperature range: -25°C to +70°C, 1 N/O contact, input: 110 V DC, output: 3 - 33 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	2900380
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK6233
Catalog page	Page 417 (C-5-2019)
GTIN	4046356508940
Weight per piece (including packing)	28.94 g
Weight per piece (excluding packing)	28.94 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	Railway applications
Operating mode	100% operating factor
Insulation characteristics	
Insulation	Basic insulation
Insulation characteristics: Air clearances and creepage distances between the power circuits	

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

#### Electrical properties

Maximum power dissipation for nominal condition	0.33 W
Air clearances and creepage distances between the power circuits	
Rated insulation voltage	250 V
Rated surge voltage	4 kV

#### Input data

Nominal input voltage U <sub>N</sub>	110 V DC
Input voltage range in reference to $\mathbf{U}_{\mathbf{N}}$	0.7 1.25 (t < 1 s = 0.6 1.4 x U <sub>N</sub> )
Input voltage range	77 V DC 137.5 V DC
Switching threshold "0" signal in reference to $U_N$	≤ 0.3
Switching threshold "1" signal in reference to $U_N$	≥ 0.6
Typical input current at U <sub>N</sub>	3 mA
Typical response time	80 µs
Typical turn-off time	600 µs
Operating voltage display	Yellow LED
Protective circuit	Reverse polarity protection; Polarity protection diode
Transmission frequency	100 Hz

#### Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output nominal voltage	24 V DC
Output voltage range	3 V DC 33 V DC (t < 1 s = 1.40 x U <sub>N</sub> )
Limiting continuous current	3 A (see derating curve)
Surge voltage protection	> 33 V DC
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; Suppressor diode
Connection data	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
	0.2 mm² 2.5 mm² (Single ferrule)
	2x 0.5 mm <sup>2</sup> 1 mm <sup>2</sup> (TWIN ferrule)
Conductor cross section AWG	26 14
Dimensions	
Width	6.2 mm
Height	80 mm
Depth	95 mm
Material specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
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
Approvals	
Corrosive gas test	
Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60
Standards and regulations	
Air clearances and creepage distances between the power circuits	
Standards/regulations	IEC 60947-5-1
Mounting	
Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Manustine and ities	
Mounting position	any



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### Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27371604
ECLASS-12.0	27371604
ECLASS-13.0	27371604
ETIM	
ETIM 9.0	EC001504
UNSPSC	

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#### Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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