

2810492

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3-way signal conditioner, for electrical isolation of analog signals, with screw connection, input signal: 0 V  $\dots$  10 V, output signal: 4 mA  $\dots$  20 mA

#### Commercial data

Item number	2810492
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DKA131
GTIN	4046356166713
Weight per piece (including packing)	66.9 g
Weight per piece (excluding packing)	59 g
Country of origin	DE



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#### Technical data

#### Notes

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EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

#### Product properties

Product type	Signal conditioner
Product family	ESSENTIAL edition
No. of channels	1
Insulation characteristics	
Overvoltage category	II
Pollution degree	2

#### Electrical properties

Electrical isolation	3-way isolation
Limit frequency (3 dB)	approx. 100 Hz
Step response (10-90%)	500 ms
Maximum temperature coefficient	< 0.01 %/K
Temperature coefficient, typical	< 0.002 %/K
Maximum transmission error	< 0.1 % (of final value)

#### Electrical isolation Input/output/power supply

Rated insulation voltage	50 V AC/DC
Test voltage	1.5 kV AC (50 Hz, 60 s)
Insulation	Basic insulation in accordance with IEC/EN 61010

#### Supply

Nominal supply voltage	24 V DC ±10 %
Supply voltage range	19.2 V DC 30 V DC
Max. current consumption	< 20 mA
Power consumption	< 450 mW

#### Input data

#### Signal: Voltage

Number of inputs	1
Configurable/programmable	no
Voltage input signal	0 V 10 V
Max. voltage input signal	30 V
Input resistance of voltage input	approx. 100 kΩ

#### Output data



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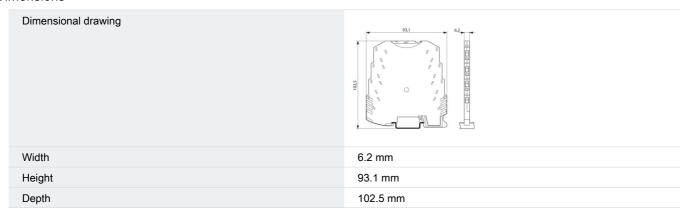
#### Signal

Number of outputs	1
Open-circuit voltage	approx. 12.5 V
Current output signal	4 mA 20 mA
Max. current output signal	28 mA
Load/output load current output	≤ 500 Ω
Ripple	< 20 mV <sub>PP</sub> (at 500 Ω)

#### Connection data

Connection method	Screw connection
Stripping length	12 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² 2.5 mm²
Conductor cross-section flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	26 12

#### **Dimensions**



#### Material specifications

Color	green (RAL 6021)
Housing material	PBT
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C 60 °C
Ambient temperature (storage/transport)	-20 °C 65 °C

#### Approvals

CE



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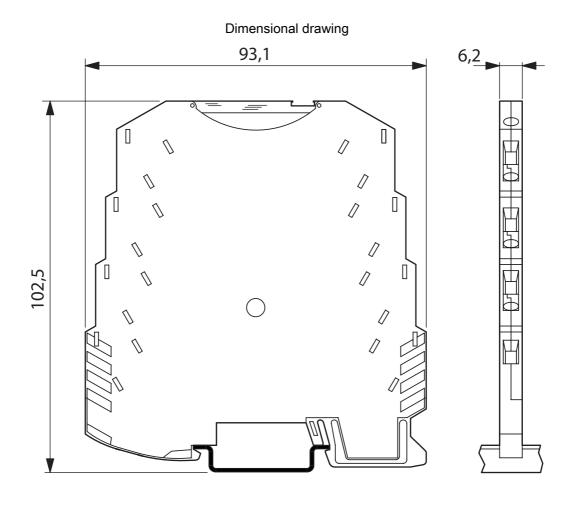
Certificate	CE-compliant			
UKCA				
Certificate	UKCA-compliant			
EMC data				
Electromagnetic compatibility	Conformance with EMC directive			
Noise immunity	EN 61000-6-2:2005			
Noise emission				
Standards/regulations	EN 61000-6-4			
Electrostatic discharge				
Comments	Safety measures must be taken to prevent electrostatic discharge.			
Standards and regulations				
Electrical isolation	3-way isolation			
Mounting				
Mounting type	DIN rail mounting			
Mounting position	any			



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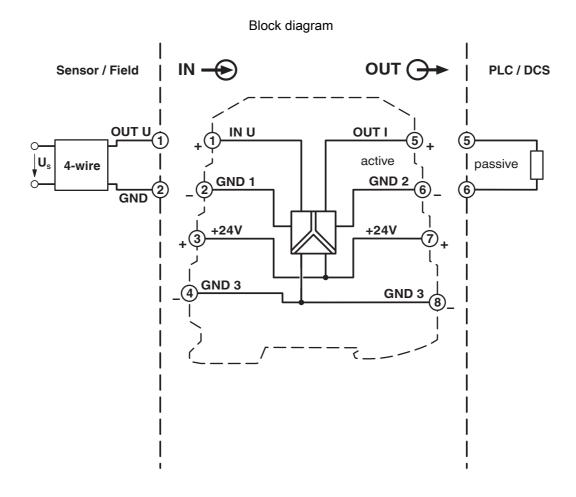
### Drawings





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#### Classifications

#### **ECLASS**

	ECLASS-13.0	27210120	
	ECLASS-15.0	27210120	
ETIM			
	ETIM 9.0	EC002653	
UNSPSC			
	UNSPSC 21.0	39121000	



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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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: n/a)
SCIP	5b3b43c9-678c-4dc3-8820-28467c3a6633



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#### Accessories

#### MINI MCR DKL - Transparent cover

2308111

https://www.phoenixcontact.com/us/products/2308111



Fold up transparent cover for MINI MCR modules with additional labeling option using insert strips and flat Zack marker strip 6.2 mm

#### MINI MCR-DKL-LABEL - Marking label

2810272

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Label for extended marking of MINI MCR modules in connection with the MINI MCR-DKL





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SZS 0,6X3,5 - Screwdriver

1205053

https://www.phoenixcontact.com/us/products/1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size:  $0.6 \times 3.5 \times 100$  mm, 2-component grip, with non-slip grip

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