2902040

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3-way signal conditioner with plug-in connection technology and calibrated measuring range changeover, for the electrical isolation of unipolar and bipolar analog signals. Input/output configurable via DIP switch. push-in connection technology, standard configuration.

Product description

The 3-way signal conditioner with plug-in connection technology and calibrated measuring range changeover can be configured using DIP switches and is used for the electrical isolation, conversion, amplification, and filtering of unipolar and bipolar standard and normalized signals. On the input side, the standard analog signals 0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 0 ... 5 V, 1 ... 5 V or -10 ... 10 V, and signals2 ... 10 V, 0 ... 20 V, 4 ... 20 V, 0 ... 24 V, 0 ... 30 V, -5 ... 5 V, -20 ... 20 V, -24 ... 24 V, -30 ... 30 V and -20 ... 20 mA are available. On the output side, 0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 0 and -20 ... 20 mA are available. On the output side, 0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 0 ... 5 V, 1 ... 5 V, -10 ... 10 V and -5 ... 5 V are possible. There is no need for adjustment following a measuring range changeover. The measuring transducer supports fault monitoring and NFC communication.

Commercial data

Item number	2902040
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK1121
Product key	DK1121
Catalog page	Page 72 (C-5-2019)
GTIN	4046356652063
Weight per piece (including packing)	116.4 g
Weight per piece (excluding packing)	97.5 g
Customs tariff number	85437090
Country of origin	DE

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Technical data

Notes

Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area
Product properties	
Product type	Signal conditioner
Product family	MINI Analog Pro
No. of channels	1
Туре	Signal conditioner
Configuration	DIP switches
Insulation characteristics: GB Standard	
Overvoltage category	П
Pollution degree	2

Electrical properties

Electrical isolation	3-way isolation
Electrical isolation between input and output	yes
Limit frequency (3 dB)	30 Hz (via DIP switch)
	5 kHz (via DIP switch)
Protective circuit	Transient protection
Step response (10-90%)	< 12 ms (with 30 Hz filter)
Maximum temperature coefficient	0.01 %/K
Temperature coefficient, typical	0.01 %/K
Maximum transmission error	≤ 0.1 % (of the maximum value of the configured output range)
	≤ 0.15 % (of final value, at IN: 4 mA 20 mA / OUT: -10 V 10 V)
ectrical isolation Input/output/power supply Rated insulation voltage	
	300 V
	300 V _{rms} 3 kV AC (50 Hz. 60 s)
Test voltage Insulation	300 V _{rms} 3 kV AC (50 Hz, 60 s) Reinforced insulation according to IEC/EN 61010-1
Test voltage	3 kV AC (50 Hz, 60 s)
Test voltage Insulation	3 kV AC (50 Hz, 60 s)
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Test voltage Insulation pply Nominal supply voltage	3 kV AC (50 Hz, 60 s) Reinforced insulation according to IEC/EN 61010-1 24 V DC 9.6 V DC 30 V DC (The DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail in
Test voltage Insulation pply Nominal supply voltage Supply voltage range	3 kV AC (50 Hz, 60 s) Reinforced insulation according to IEC/EN 61010-1 24 V DC 9.6 V DC 30 V DC (The DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail in accordance with EN 60715)

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Input data

Signal: Voltage/current	
Number of inputs	1
Configurable/programmable	Yes
Voltage input signal	0 V 5 V (via DIP switch)
	1 V 5 V (via DIP switch)
	-5 V 5 V (via DIP switch)
	0 V 10 V (via DIP switch)
	2 V 10 V (via DIP switch)
	-10 V 10 V (via DIP switch)
	0 V 20 V (via DIP switch)
	4 V 20 V (via DIP switch)
	-20 V 20 V (via DIP switch)
	0 V 24 V (via DIP switch)
	4.8 V 24 V (via DIP switch)
	-24 V 24 V (via DIP switch)
	0 V 30 V (via DIP switch)
	6 V 30 V (via DIP switch)
	-30 V 30 V (via DIP switch)
Max. voltage input signal	33 V
Current input signal	0 mA 20 mA (via DIP switch)
	4 mA 20 mA (via DIP switch)
	-20 mA 20 mA (via DIP switch)
Max. current input signal	24 mA
Input resistance of voltage input	> 1000 kΩ
Input resistance current input	approx. 63 Ω (+0.7 V for test diode)

Output data

Signal: Voltage/current

Number of outputs	1
Configurable/programmable	Yes
Voltage output signal	0 V 5 V (via DIP switch)
	1 V 5 V (via DIP switch)
	-5 V 5 V (via DIP switch)
	0 V 10 V (via DIP switch)
	2 V 10 V (via DIP switch)
	-10 V 10 V (via DIP switch)
Non-load voltage	< 17 V
Current output signal	0 mA 20 mA (via DIP switch)
	4 mA 20 mA (via DIP switch)
Max. current output signal	22 mA
Short-circuit current	< 32 mA

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Load/output load voltage output	≥ 10 kΩ
Load/output load current output	≤ 600 Ω (at 20 mA)
Ripple	< 20 mV _{PP} (at 600 Ω)
	< 20 mV _{PP} (at 600 Ω)

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ² (with ferrule)
	0.14 mm ² 2.5 mm ² (without ferrule)
Conductor cross section flexible	0.14 mm ² 2.5 mm ²
Conductor cross section AWG	24 12 (flexible)

Ex data

Ex installation (EPL)	Gc
	Div. 2

Signaling

Dimensions

Width	6.2 mm
Height	109.81 mm
Depth	119.2 mm

Material specifications

Color	gray (RAL 7042)
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 (not assessed by UL)
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 % (non-condensing)

Approvals

CE	
Certificate	CE-compliant
ATEX	

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Fast transients (burst)	
Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Conducted interference	
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Standards and regulations	3-way isolation
GB Standard	
Standards/regulations	GB/T 3836.1
	GB/T 3836.3
	GB/T 3836.4
Nounting	
Mounting type	DIN rail mounting
Assembly note	The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.
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/au/products/2902040

DNV GL Approval ID: TAA00002UA
UL Listed Approval ID: FILE E 238705
CCC Approval ID: 2021322310003859
Approval ID: FILE E 238705
IIC IECEX Approval ID: IECEX BVS 19.0041X
CUL Listed Approval ID: E196811
UL Listed Approval ID: E196811
ATEX Approval ID: BVS 19 ATEX E 047 X
EAC Ex Approval ID: TP012 103.01 00079
CCC Approval ID: 2022122310115961

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Classifications

ECLASS

	ECLASS-13.0	27210120
ET	ГІМ	
	ETIM 9.0	EC002653
U	NSPSC	
	UNSPSC 21.0	39121000

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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.
U REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	52f84a81-2dec-4b2f-8dbf-6b987ddaebd9
F3.0 Climate Change	

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