

2905629

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4-way power supply doubler with plug-in connection technology. HART-transparent, 0(4) mA ... 20 mA input signal, 0(4) mA ... 20 mA output signals. The device can be used in both signal and power supply doubler modes. Push-in connection technology.

Product description

The power supply duplicator with plug-in connection technology supplies the transmitter in the field and electrically isolates the input signal transmitted to two loads. HART data protocols can be transmitted bi-directionally via both outputs. You can use the device in signal and power supply duplicator mode with a transmitter supply voltage of >19.5 V. On the output side, the module can be connected to passive input cards. For a maximum load of \leq 500 Ω per channel, electrically isolated analog standard signals 0 mA ... 20 mA or 4 mA ... 20 mA are available. The measuring transducer supports fault monitoring and NFC communication.

Commercial data

Item number	2905629
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK1121
Product key	DK1121
Catalog page	Page 78 (C-5-2019)
GTIN	4046356999441
Weight per piece (including packing)	120.6 g
Weight per piece (excluding packing)	120 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
oduct properties	
Product type	Repeater power supply
Product family	MINI Analog Pro
No. of channels	2
Туре	Signal conditioner
Configuration	DIP switches
Insulation characteristics: GB Standard Overvoltage category	
Pollution degree	2
ectrical properties	
Electrical isolation	4-way isolation
Limit frequency (3 dB)	> 1 kHz
Signal transmission behavior	In = Out
Step response (10-90%)	< 400 µs
Maximum temperature coefficient	0.0075 %/K
Maximum transmission error	≤ 0.05 % (of final value 20 mA)

Electrical isolation Input/output/power supply

Rated insulation voltage	300 V _{rms}
Test voltage	3 kV AC (50 Hz, 60 s)
Insulation	Reinforced insulation according to IEC/EN 61010-1

Supply

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
1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the
accordance with EN 60715)
40 mA (For 24 V DC and in signal duplicator mode)
65 mA (For 24 V DC and in power supply duplicator mode)
75 mA (For 12 V DC and in signal duplicator mode)
130 mA (For 12 V DC and in power supply duplicator mode)
1.6 W (at I _{OUT} = 20 mA, 500 Ω load)

Input data

Signal: Current





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Description of the input	Sensor circuit
Number of inputs	1
Current input signal	0 mA 20 mA (Signal duplicator mode)
	4 mA 20 mA (Power supply and signal duplicator mode)
Input resistance current input	90 Ω (+1.6 V)
Transmitter supply voltage	> 19.5 V

Output data

Signal: Current	
Number of outputs	2
Non-load voltage	< 20 V
Current output signal	0 mA 20 mA (Signal duplicator mode)
	4 mA 20 mA (Power supply and signal duplicator mode)
Max. current output signal	25 mA
Load/output load current output	\leq 500 Ω (per channel)
Ripple	< 20 mV _{PP} (500 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

Interfaces

Data communication (bypass)	
HART function	Yes
Limit frequency (3 dB)	≈ 🖵 kHz

Signaling

Status display	Green LED (supply voltage)

Dimensions

Width	6.2 mm
Height	109.81 mm
Depth	119.2 mm

Material specifications



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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
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % 95 % (non-condensing)

Approvals

CE	
Certificate	CE-compliant
ATEX	
Identification	ll 3 G Ex ec ic IIC T4 Gc
Certificate	BVS 19 ATEX E 047 X
IECEx	
Identification	Ex ec ic IIC T4 Gc
Certificate	IECEx BVS 19.0041X
CCC / China-Ex	
Identification	Ex ec ic IIC T4 Gc
Certificate	2022122303115963
UL, USA/Canada	
Identification	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T5
	Class I, Zone 2, Group IIC T5
Shipbuilding approval	
Certificate	DNV GL TAA000021E Rev. 1
EAC Ex	
Identification	t∰t⊡ 11Ex ec ic IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00081
Shipbuilding data	
Temperature	В
Humidity	В
Vibration	A
EMC	A



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Enclosure	Required protection according to the Rules shall be provided upon installation on board
EMC data	
Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Noise emission	
Standards/regulations	EN 61000-6-4
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Comments	Safety measures must be taken to prevent electrostatic discharge.
Electromagnetic HF field	
Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
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	
Electrical isolation	4-way isolation
GB Standard	
Standards/regulations	GB/T 3836.1
	GB/T 3836.3
	GB/T 3836.4
Mounting	
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/2905629

EAC Approval ID: RU*DE.*08.B.01608/19
UL Listed Approval ID: E238705
CCC Approval ID: 2021322303003858
CUL Listed Approval ID: E238705
DNV Approval ID: TAA000021E
II C Infer Approval ID: IECEx BVS 19.0041X
CUL Listed Approval ID: FILE E 196811
UL Listed Approval ID: E196811
ATEX Approval ID: BVS 19 ATEX E 047 X
ERC Ex Approval ID: TP012 103.01 00079
CCC Approval ID: 2022122303115963



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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.
EU 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	1c9fe81b-c157-461c-9280-e6e1bbb0718c
F3.0 Climate Change	

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