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3-way repeater power supply with plug-in connection technology. HART-transparent, input signal 0(4)...20 mA, output signal 0(4)...20 mA. The device can be used in both isolator and repeater power supply operation. Screw connection technology

Product Description

The repeater power supply with plug-in connection technology supplies the transmitter in the field and electrically isolates the input signal from the output signal. HART data protocols can be transmitted bidirectionally. The device can be used in both isolator and repeater power supply operation. Electrically isolated $0 \dots 20$ mA or $4 \dots 20$ mA standard analog signals are available on the input and output sides with a maximum output load of 600Ω . The measuring transducer supports fault monitoring and NFC communication.



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 651981
GTIN	4046356651981

Technical data

Note

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

Dimensions

Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Input data

Description of the input	Current input (sensor circuit)
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Technical data

Input data

Number of inputs	1
Current input signal	4 mA 20 mA (repeater power supply and isolator operation)
	0 mA 20 mA (isolator operation)
Input resistance current input	approx. 68 Ω (+ 0.7 V for test diode)
Transmitter supply voltage	> 19.5 V

Output data

Output name	Current output
Number of outputs	1
Current output signal	4 mA 20 mA (repeater power supply and isolator operation)
	0 mA 20 mA (isolator operation)
Max. output current	24 mA
Load/output load current output	\leq 600 Ω (at 20 mA)
Ripple	< 20 mV _{PP} (at 600 Ω)
Transmission Behavior	1:1 to input signal

Power supply

Nominal supply voltage	24 V DC
Supply voltage range	9.6 V DC 30 V DC (The DIN rail bus connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, Order No. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail according to EN 60715))
Typical current consumption	25 mA (at 24 V DC and in isolator operation)
	50 mA (at 24 V DC and in repeater power supply operation)
	55 mA (at 12 V DC and in isolator operation)
	110 mA (at 12 V DC and in repeater power supply operation)
Power consumption	\leq 1400 mW (at I _{OUT} = 20 mA, 9.6 V DC, 600 Ω load)

Connection data

Connection method	Screw connection
Single conductor/terminal point, solid, with ferrule, min.	0.2 mm²
Single conductor/terminal point, solid, with ferrule, max.	1.5 mm²
Single conductor/terminal point, solid, without ferrule, min.	0.2 mm ²
Single conductor/terminal point, solid, without ferrule, max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	12
Stripping length	10 mm
Screw thread	M3

General

No. of channels	1
Maximum transmission error	0.05 % (of final value, at 4 mA 20 mA)



Technical data

General

	0.1 % (of final value, at 0 mA 20 mA)
Maximum temperature coefficient	0.0075 %/K
Temperature coefficient, typical	0.0075 %/K
Limit frequency (3 dB)	> 1.75 kHz (typ.)
Step response (10-90%)	< 200 µs (typ.)
Protective circuit	Transient protection
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Overvoltage category	II
Degree of pollution	2
Rated insulation voltage	300 V (effective)
Test voltage, input/output/supply	3 kV (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.
Color	gray
Housing material	РВТ
Mounting position	any
Assembly instructions	The T connector can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail according to EN 60715.
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X
UL, USA/Canada	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T5
	Class I, Zone 2, Group IIC T5
GL	C, EMC2
Certificate of classification	DNV GL 14445-15HH
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

Data communication (bypass)

Limit frequency (3 dB)	approx. 1.75 kHz
Elith hodgonoy (o db)	approx. 11 o Kiz

EMC data

Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6

Standards and Regulations



Technical data

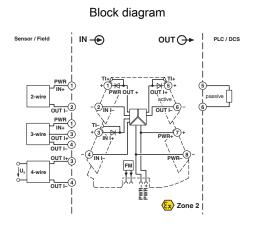
Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive		
Noise emission	EN 61000-6-4		
Standards/regulations	EN 61000-4-2		
Designation	Electromagnetic RF field		
Standards/regulations	EN 61000-4-3		
	EN 61000-4-4		
	EN 61000-4-5		
Designation	Conducted interferences		
Standards/regulations	EN 61000-4-6		
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1		
Conformance	CE-compliant		
ATEX	# II 3 G Ex nA IIC T4 Gc X		
UL, USA/Canada	UL 508 Listed		
	Class I, Div. 2, Groups A, B, C, D T5		
	Class I, Zone 2, Group IIC T5		
GL	C, EMC2		
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2 HL 1 - HL 2 HL 1 - HL 2		
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2 HL 1 - HL 2 HL 1 - HL 2		
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2 HL 1 - HL 2 HL 1 - HL 2		
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 2 HL 1 - HL 2 HL 1 - HL 2		

Environmental Product Compliance

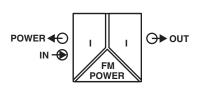
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings





Pictogram





Approvals			
Approvals			
Approvals			
UL Listed / cUL Listed / GL /	cULus Listed		
Ex Approvals			
ATEX / UL Listed / cUL Listed	d / cULus Listed		
Approval details			
UL Listed	UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
cUL Listed	C UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 238705
GL	GL	http://exchange.dnv.com/tari/	14445-15 HH
cULus Listed	C UL US		

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