

Power/input isolating amplifier - IOA RPSS-I-I/HART/EX - 2908452

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

Why buy this product

- Two-stage progressive release allowing for voltage checks with field-powered devices
- Channel for marking accessories
- Integrated keying reduces possible user error during replacement
- Signal disconnect with test points
- Test points for field, controller, and HART readings
- Bidirectional HART signal transmission
- 3-way electrical isolation



Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4055626446158

Technical data

Dimensions

Width	9.8 mm
Height	75.2 mm
Depth	113.2 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 %
Degree of protection	IP20

Power supply

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Technical data

Power supply

Nominal supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC
Power consumption	≤ 1600 mW (at I _{OUT} = 20 mA, 24 V DC, 600 Ω load)

Connection data

Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	1.5 mm ²
Stripping length	10 mm
Screw thread	M3
Connection method	Screw connection

General

No. of channels	1
Maximum transmission error	< 0.1 % (of final value)
Maximum temperature coefficient	0.01 %/K
Temperature coefficient, typical	0.01 %/K
Limit frequency (3 dB)	1.75 kHz (typ.)
Step response (10-90%)	< 200 μs (typ.)
Status display	Green LED (supply voltage)
Flammability rating according to UL 94	V0
Degree of pollution	2
Overvoltage category	II
Electromagnetic compatibility	Conformance with EMC directive
Color	gray

Data communication (bypass)

HART function	Yes
Signal band width (data communication)	> 1.75 kHz (typical)
Protocols supported	HART

EMC data

Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Typical deviation from the measuring range final value	1 %
Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Typical deviation from the measuring range final value	1 %
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Typical deviation from the measuring range final value	1 %

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive
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Technical data

Standards and Regulations

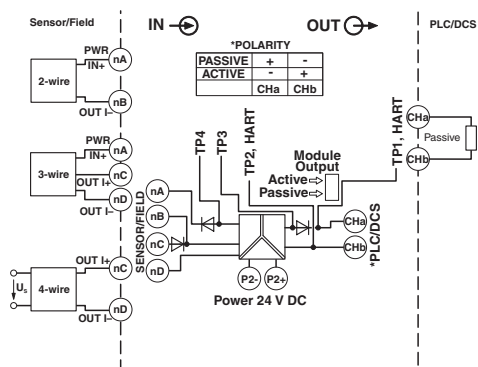
Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Flammability rating according to UL 94	V0

Environmental Product Compliance

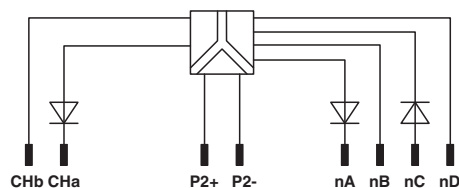
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Block diagram



Circuit diagram



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