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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.

## Your advantages

- Channel for marking accessories
- Signal disconnect with test points
- ☑ Bidirectional HART signal transmission



# **Key Commercial Data**

Packing unit	1 pc
GTIN	4 055626 446158
GTIN	4055626446158
Weight per Piece (excluding packing)	42.900 g
Custom tariff number	85437090
Country of origin	China
Note	Made to Order (non-returnable)

## 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



## Technical data

## Ambient conditions

Permissible humidity (operation)	5 % 95 %
Degree of protection	IP20

## Power supply

Nominal supply voltage	24 V DC
Supply voltage range	18 V DC 30 V DC
Power consumption	$\leq$ 1600 mW (at I <sub>OUT</sub> = 20 mA, 24 V DC, 600 $\Omega$ load)

## Connection data

Connection method	Screw connection
Stripping length	10 mm
Screw thread	M3
Conductor cross section solid	0.2 mm <sup>2</sup> 1.5 mm <sup>2</sup> (with ferrule)
	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> (without ferrule)
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 12 (flexible)

#### 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)
Degree of pollution	2
Overvoltage category	П
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



## Technical data

## EMC data

Standards/regulations	EN 61000-4-6
Typical deviation from the measuring range final value	1 %

## Standards and Regulations

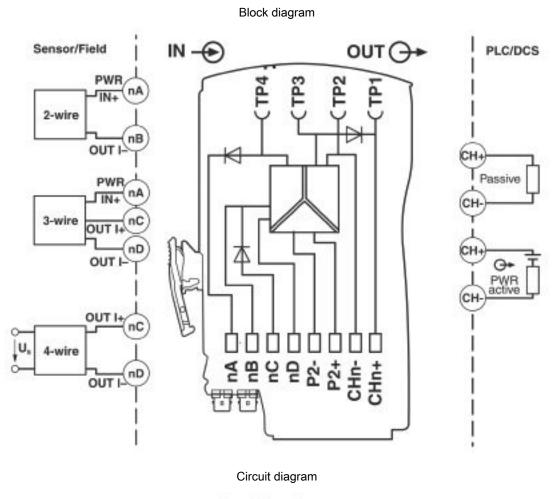
Electromagnetic compatibility	Conformance with EMC directive
Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1

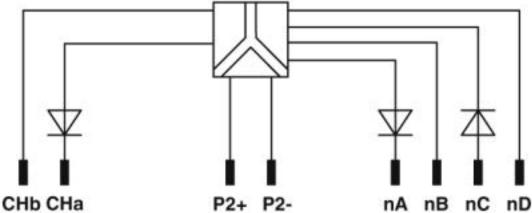
## **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings







## Classifications

## eCl@ss

eCl@ss 4.0	27210100
eCl@ss 4.1	27210100
eCl@ss 5.0	27210100



## Classifications

#### eCl@ss

eCl@ss 5.1	27210100
eCl@ss 6.0	27210100
eCl@ss 7.0	27141152
eCl@ss 8.0	27141152
eCl@ss 9.0	27141152

#### **ETIM**

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC002653
ETIM 5.0	EC002780
ETIM 6.0	EC002780
ETIM 7.0	EC002780

#### Accessories

Accessories

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

#### Terminal marking

Marker for terminal blocks - UC-TM 6 - 0818085



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

Marker for terminal blocks - UC-TM 6 BU - 0818344



Marker for terminal blocks, Sheet, blue, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80



## Accessories

Zack marker strip - ZB 5,08:UNBEDRUCKT - 0809793



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 5.08 mm, lettering field size: 4.98 x 10.5 mm, Number of individual labels: 10

## Necessary add-on products

Base module - VIP/S/MC/BASE 1-8/L/EX - 2906596



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 1-8.

#### Base module - VIP/S/MC/BASE 9-16/L/EX - 2906630



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 9-16.

#### Base module - VIP/S/MC/BASE 17-24/L/EX - 2907024



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 17-24.

### Base module - VIP/S/MC/BASE 25-32/L/EX - 2907025



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 25-32.



#### Accessories

Base module - VIP/S/MC/BASE 1-8/L/C/EX - 2907186



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 1-8 and includes conformal coating of the printed circuit board assembly.

Base module - VIP/S/MC/BASE 9-16/L/C/EX - 2907187



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 9-16 and includes conformal coating of the printed circuit board assembly.

Base module - VIP/S/MC/BASE 17-24/L/C/EX - 2907209



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 17-24 and includes conformal coating of the printed circuit board assembly.

Base module - VIP/S/MC/BASE 25-32/L/C/EX - 2907210



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module has markings for channels 25-32 and includes conformal coating of the printed circuit board assembly.

Base module - VIP/S/D25M/BASE 1-8/L/C/EX - 2906595



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module with the D-SUB 25 connector is pin compatable to the Foxboro I/A series DCS.



## Accessories

Base module - VIP/MSTB/D50M/BASE/16CH/CX/EX - 2908788



VIP base module with input/output accessories (IOA) provide universal channel configuration. This module with the D-SUB 50 connector is pin compatable to the Tricon CX series DCS.

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