

# MACX MCR-S-MUX-TB - HART transfer board



2308124

<https://www.phoenixcontact.com/us/products/2308124>

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The HART termination board is used to apply the signals from the HART-compatible signal converters or field devices and transmit them to the MACX MCR-S-MUX HART multiplexer.



## Commercial data

Item number	2308124
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C402
Product key	CK11ZZ
Catalog page	Page 172 (C-5-2019)
GTIN	4046356579162
Weight per piece (including packing)	241.6 g
Weight per piece (excluding packing)	220.2 g
Customs tariff number	85437090
Country of origin	DE

## Technical data

### Product properties

Product type	Multiplexer
Product family	MACX Analog
No. of channels	16

### Electrical properties

Reverse polarity protection	yes
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#### Supply

Nominal supply voltage	24 V DC
Supply voltage range	19 V ... 31.2 V

### Input data

#### Signal

Description of the input	HART
Input signal	Current
Current input signal	4 mA ... 20 mA (HART)

### Output data

#### Signal

Output description	HART
Current output signal	4 mA ... 20 mA (HART)

### Connection data

#### Supply

Connection method	Screw terminal blocks
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (Ferrule without / with plastic sleeve)

#### Signal level

Connection method	Screw terminal blocks
Conductor cross section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (Ferrule without / with plastic sleeve)

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Conductor cross section flexible (2 conductors with same cross section)	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule without / with plastic sleeve)
	0.08 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> (Ferrules without plastic sleeve)

## Ex data

Ex installation (EPL)	Gc
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## Dimensions

Dimensional drawing	
Width	80 mm
Height	70 mm
Depth	125 mm

## Material specifications

Flammability rating according to UL 94	V0
Housing material	Polyamide (PA 6.6)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (Terminal blocks) IP00 (Housing)
Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	≤ 95 % (non-condensing)

## Approvals

### ATEX

Identification	Ex II 3 G Ex ec IIC T4 Gc
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### IECEx

Identification	Ex ec IIC T4 Gc
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### Safety Integrity Level (SIL, IEC 61508)

Identification	3
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## EMC data

Electromagnetic compatibility	Tested in accordance with the following standards and regulations: EN 61326-1 For industrial use, NAMUR NE 21
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## Mounting

Mounting type	DIN rail mounting/wall mounting
Mounting position	vertical, horizontal

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## Classifications

### ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

### ETIM

ETIM 9.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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