

MACX MCR-PTB-SP - Power and error message module

2924184
<https://www.phoenixcontact.com/us/products/2924184>

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Power and fault signaling module with Push-in connection, including corresponding ME 17,5 TBUS 1,5/ 5-ST-3,81 GY DIN rail connector

Your advantages

- Simple or redundant supply, decoupled from diode, protected against polarity reversal
- Installation in zone 2 permitted
- Replaceable fuse
- Error message in the event of power supply failure or fuse fault
- Bus cable error message for MACX MCR-...(2)NAM... devices connected via DIN rail connectors
- Relay output (changeover contact) and blinking LED for error messages
- Supply current up to 3.75□A

Commercial data

Item number	2924184
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C402
Product key	CK11ZZ
Catalog page	Page 175 (C-5-2019)
GTIN	4046356342766
Weight per piece (including packing)	161 g
Weight per piece (excluding packing)	151 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
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Product properties

Product type	Power module
Product family	MACX Analog

Insulation characteristics: GB Standard

Overvoltage category	II
Pollution degree	2

Electrical properties

Electrical isolation Supply/switching output

Electrical isolation	50 V AC/DC
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Input data

Signal

Voltage input signal	19.2 V DC ... 30 V DC
Fuse	5 A (replaceable), slow-blow 250 V AC
Polarization and surge protection	Yes

Output data

Switching: Relay

Contact switching type	1 changeover contact
Contact material	Gold (Au)
Maximum switching voltage	50 V AC (2 A)
	30 V DC (2 A)
	50 V DC (0.22 A)

Signal

Max. current output signal	3.75 A
Output voltage	Input voltage - max 0.8 V at 3.75 A

Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16

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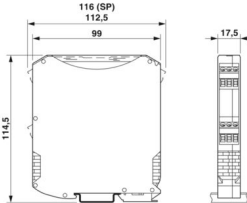
Ex data

Ex installation (EPL)	Gc
	Div. 2

Signaling

Status display	1 x red LED (error)
	2 x green LEDs (PWR1 and PWR2)

Dimensions

Dimensional drawing	
Width	17.5 mm
Height	108.4 mm
Depth	113.7 mm
Depth NS 35/7,5	114.5 mm (Snapped onto DIN rail NS 35/7,5 in accordance with EN 60715)

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
Housing material	Polyamide (PA 6.6)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (not assessed by UL)
Ambient temperature (operation)	-40 °C ... 60 °C (Any mounting position)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	Ⓔ II 3 G Ex ec nC IIC T4 Gc X
Certificate	PxCIF08ATEX2865625X

UKCA Ex (UKEX)

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Identification	II 3 G Ex nA nC IIC T4 Gc X
Certificate	PxCIF21UKEX2865625X

IECEX

Identification	Ex ec nC IIC T4 Gc
Certificate	IECEX IBE 08.0004X

CCC / China-Ex

Identification	Ex ec nC IIC T4 Gc
Certificate	2021122303114198

UL, USA/Canada

Identification	UL 61010 Listed
	Class I, Div. 2, Groups A, B, C, D T5
	Class I, Zone 2, Group IIC

Shipbuilding approval

Certificate	DNV GL TAA00000AG
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EAC Ex

Identification	Ex ec nC IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00078

DNV GL data

Temperature	B
Humidity	B
Vibration	A
EMC	B
Enclosure	Required protection according to the Rules shall be provided upon installation on board

Standards and regulations

GB Standard

Standards/regulations	GB 3836.1
	GB 3836.3
	GB 3836.8

Mounting

Mounting type	DIN rail mounting
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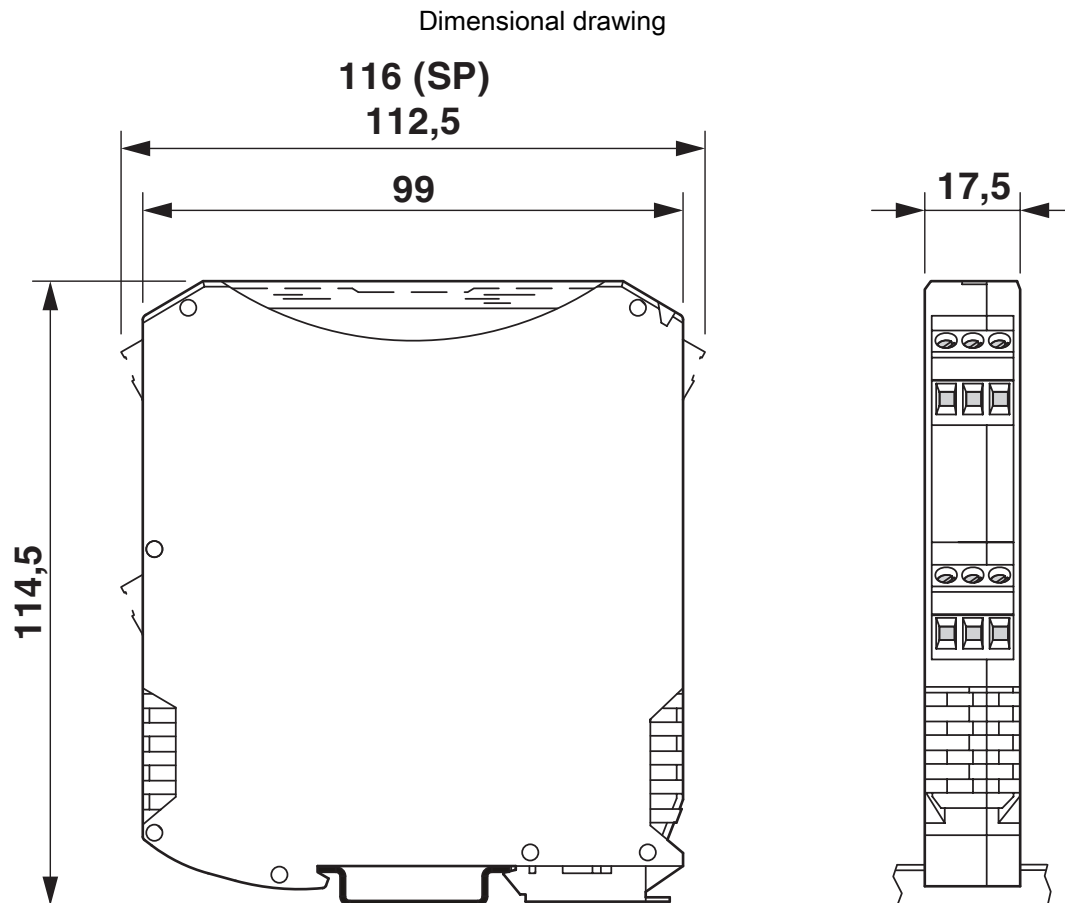
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Drawings

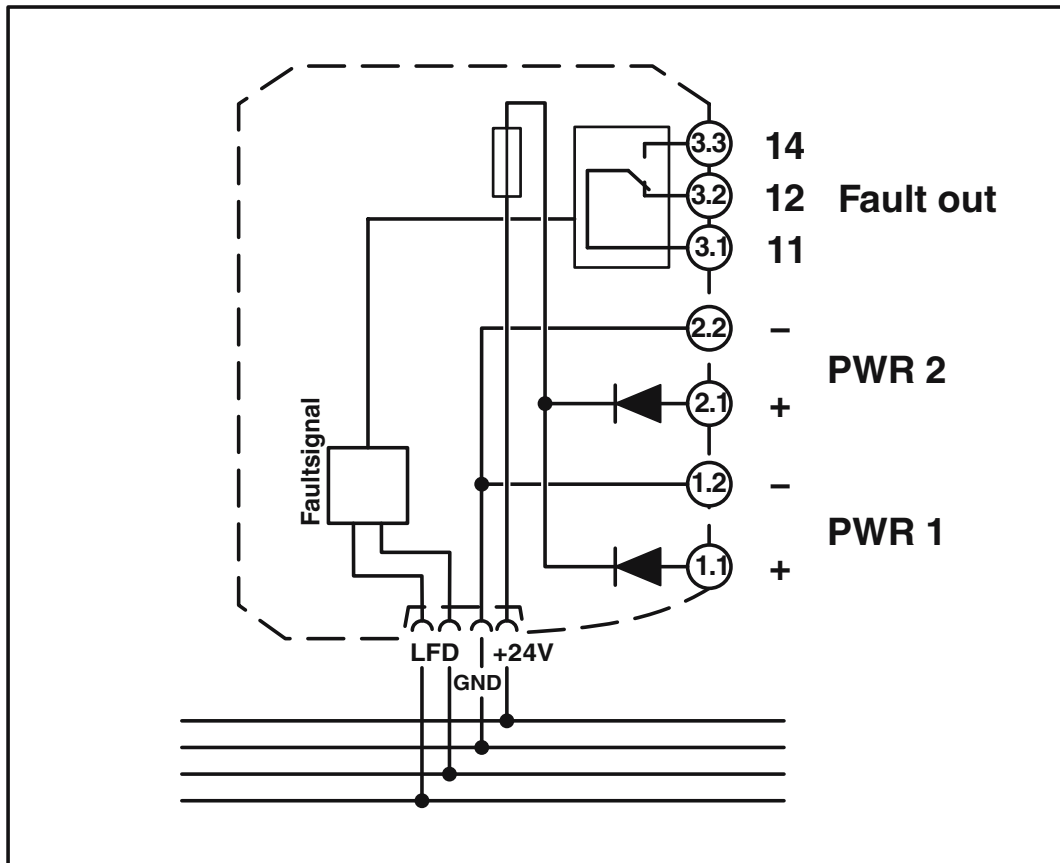


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Block diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2924184>



DNV GL

Approval ID: TAA00000AG



UL Listed

Approval ID: FILE E 330267



CCC

Approval ID: 2021122303114198



cUL Listed

Approval ID: FILE E 330267



EAC Ex

Approval ID: RU C-DE.AB72.B.02066



IECEx

Approval ID: IECEx IBE 08.0004X



ATEX

Approval ID: PxCIF08ATEX2865625X



cUL Listed

Approval ID: FILE E 199827



UL Listed

Approval ID: FILE E 199827

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242610
ECLASS-12.0	27242610
ECLASS-13.0	27242610

ETIM

ETIM 9.0	EC001600
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
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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