

2904508

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Fault monitoring module with plug-in connection technology for evaluating and reporting group errors from the FM system and for monitoring the supply voltages. Error message via N/C contact. Push-in connection technology, standard configuration

### Product description

The fault monitoring module with plug-in connection technology is used to evaluate and report group errors from the fault monitoring system of up to 115 connected MINI Analog Pro signal conditioners via the ME 6,2 TBUS-2 DIN rail connector (Item No.: 2869728). You can also monitor the supply voltages of MINI MCR-2-PTB(-PT) power terminals (Item No.: 2902066, 2902067). Drawing off the supply is also possible. The error is reported via an N/C contact. The error reporting module supports NFC communication.

#### Commercial data

Item number	2904508
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C404
Product key	DK112Z
GTIN	4046356857390
Weight per piece (including packing)	121.2 g
Weight per piece (excluding packing)	96.3 g
Customs tariff number	85437090
Country of origin	DE



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## Technical data

#### Notes

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

### Product properties

Product type	Evaluation unit	
Product family	MINI Analog Pro	
Configuration	DIP switches	
Insulation characteristics: GB Standard		
Overvoltage category	II	

### System properties

#### Functionality

### Electrical properties

Rated insulation voltage	50 V AC/DC (effective)
Electrical isolation	Basic insulation in accordance with EN 61010
Test voltage (Input/output)	1.5 kV AC (50 Hz, 60 s)
Maximum temperature coefficient	< 0.01 %/K

#### Electrical isolation

Electrical isolation	Input, power supply and output to the switching output
Pumbe	

Supply	
Supply voltage range	9.6 V DC 30 V DC (The DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail in accordance with EN 60715)
Max. current consumption	< 16 mA (24 V DC)
Power consumption	< 410 mW (24 V DC)

### Input data

#### Signal: Voltage

Description of the input	Voltage input for redundancy monitoring
Number of inputs	1
Voltage input signal	9.9 V DC 30 V DC

### Output data



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Maximum switching voltage	30 V DC
Max. switching current	50 mA
Signal: Voltage	
Number of outputs	1
Voltage output signal	9.6 V DC 29.7 V DC
Max. current output signal	3.2 A

### Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup> (with ferrule)
	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup> (without ferrule)
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	24 12 (flexible)

### Ex data

Ex installation (EPL)	Gc
	Div. 2

## Signaling

Status display	Green LED (supply voltage)
	Yellow LED (switching output)
Error indication	Red LED

### **Dimensions**

Width	6.2 mm
Height	109.81 mm
Depth	119.2 mm

### Material specifications

Color	gray (RAL 7042)
Housing material	PBT
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

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20 (not assessed by UL)
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m



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Permissible humidity (operation)	5 % 95 % (non-condensing)
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Certificate	CE-compliant
ATEX	
Identification	© II 3 G Ex ec IIC T4 Gc
Certificate	BVS 20 ATEX E 014X
ECEx	
Identification	Ex ec IIC T4 Gc
Certificate	IECEx BVS 20.0010X
CCC / China-Ex	
Identification	Ex ec IIC T4 Gc
JL, USA/Canada	
Identification	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6
	Class I, Zone 2, Group IIC T6
Shipbuilding approval	
Certificate	DNV GL TAA00002UA
EAC Ex	
Identification	⊞⊾ LJEx ec IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00079
Shipbuilding data	
Temperature	В
Humidity	В
Vibration	A
EMC	A
Enclosure	Required protection according to the Rules shall be provided upon installation on board
IC data	
Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Noise emission	
Standards/regulations	EN 61000-6-4
Electrostatic discharge	
Standards/regulations	EN 61000-4-2



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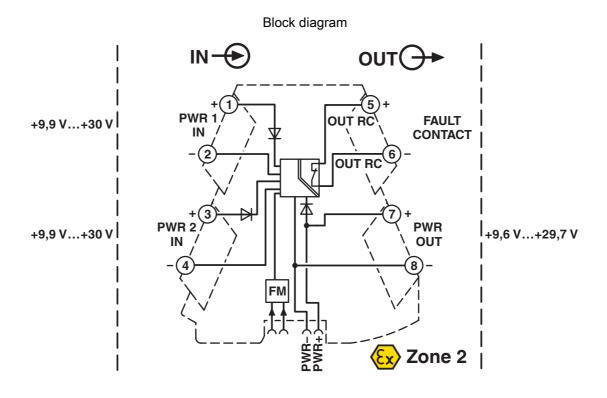
Comments	Safety measures must be taken to prevent electrostatic discharge.
lectromagnetic HF field	
Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
ast transients (burst)	
Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
surge current load (surge)	
Standards/regulations	EN 61000-4-5
Conducted interference	
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
ndards and regulations	
ndards and regulations  Electrical isolation	Basic insulation in accordance with EN 61010
<u> </u>	Basic insulation in accordance with EN 61010
Electrical isolation	Basic insulation in accordance with EN 61010  GB/T 3836.1
Electrical isolation  B Standard	
Electrical isolation  B Standard  Standards/regulations	GB/T 3836.1
Electrical isolation  B Standard	GB/T 3836.1



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## Drawings





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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2904508



**DNV GL** 

Approval ID: TAA00002UA



**UL Listed** 

Approval ID: FILE E 238705



CCC

Approval ID: 2021322309003722



cUL Listed

Approval ID: FILE E 238705



**ECE**x

Approval ID: IECEx BVS 20.0010X



cUL Listed

Approval ID: E196811



**UL Listed** 

Approval ID: E196811



**ATEX** 

Approval ID: BVS 20 ATEX E 014X



NEPSI-EX

Approval ID: GYJ20.1619X



**EAC Ex** 

Approval ID: TP012 103.01 00079



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## Classifications

	ECLASS-13.0	27371392
Εī	ГІМ	
	ETIM 9.0	EC002498
10	NSPSC	
	UNSPSC 21.0	39121100



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	fb417cef-770e-42ef-b0af-2beab695b3f5

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