

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	
Insulation characteristics: GB Standard Overvoltage category	II

System properties

Functionality

Configuration	DIP switches

Electrical properties

Rated insulation voltage	50 V AC/DC (effective)
Electrical isolation	Basic insulation in accordance with EN 61010
Electrical isolation between input and output	no
Test voltage (Input/output)	1.5 kV AC (50 Hz, 60 s)
Maximum temperature coefficient	< 0.01 %/K

Electrical isolation

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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Sw			

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 ² 2.5 mm ² (with ferrule)	
	0.14 mm ² 2.5 mm ² (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)
Approvals	
CE	
Certificate	CE-compliant
ATEX	£ 40.05 40.740
Identification	
Certificate	BVS 20 ATEX E 014X
IECEx	
Identification	Ex ec IIC T4 Gc
Certificate	IECEx BVS 20.0010X
CCC / China-Ex	
Identification	Ex ec IIC T4 Gc
UL, 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	B .
Vibration	A
EMC	A
Enclosure	Required protection according to the Rules shall be provided upon installation on board
EMC 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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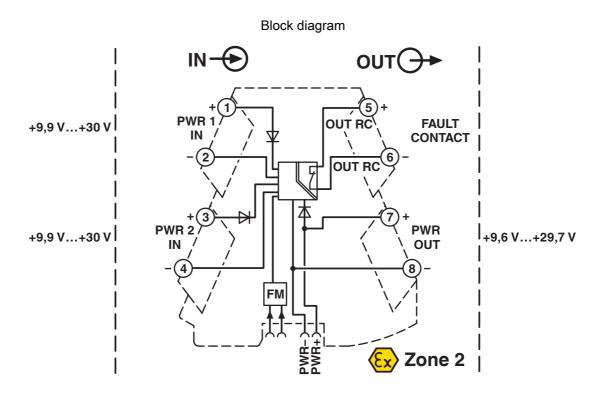
Comments	Safety measures must be taken to prevent electrostatic discharge.
lectromagnetic HF field	
Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
ast transients (burst)	
Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
surge current load (surge)	
Standards/regulations	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



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



Approval ID: TAA00002UA



IECEx

Approval ID: IECEx BVS 20.0010X



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: E196811



ATEX

Approval ID: BVS 20 ATEX E 014X



EAC Ex

Approval ID: TP012 103.01 00079



CCC

Approval ID: 2022122309115969



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Classifications

ECLASS

	ECLASS-13.0	27371392
	ECLASS-15.0	27371392
ΕT	TIM	
	ETIM 9.0	EC002498
U	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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