

PI-EX-MB/16/D-SUB

Order No.: 2835383




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2835383>

Ex motherboard, intrinsically safe, for accommodating 16 PI/Ex-... process interface modules, for assembly on NS 35/7.5 or NS 32



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Commercial data

GTIN (EAN)	 4 017918 180133
Note	Made-to-order
sales group	H783
Pack	1 pcs.
Customs tariff	85389091
Catalog page information	Page 471 (IF-2009)

Technical data

General data

Nom. voltage	20 V DC ... 35 V DC (See nominal voltage, PI modules)
Width	224 mm
Height	127.5 mm
Depth	92 mm
Housing insulation material	Polyamide PA non-reinforced, polycarbonate PC, PVC
Inflammability class acc. to UL 94	V0
Color	green

Conformance	CE-compliant
ATEX	Ex II (1) GD [EEx ia] IIC
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C

Connection data

Connection 1	To the control system level
Connection method	37-pos. D-SUB pin strip (DIN 41652 / IEC 807-2); max. perm. current = 1 A (125 V AC/DC)
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Screw thread	M3
Stripping length	8 mm
Connection 2	To the field level
Connection method	Screw connection
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Screw thread	M3
Stripping length	8 mm
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

Certificates / Approvals



Certification	GOST
Certification Ex:	KEMA-EX

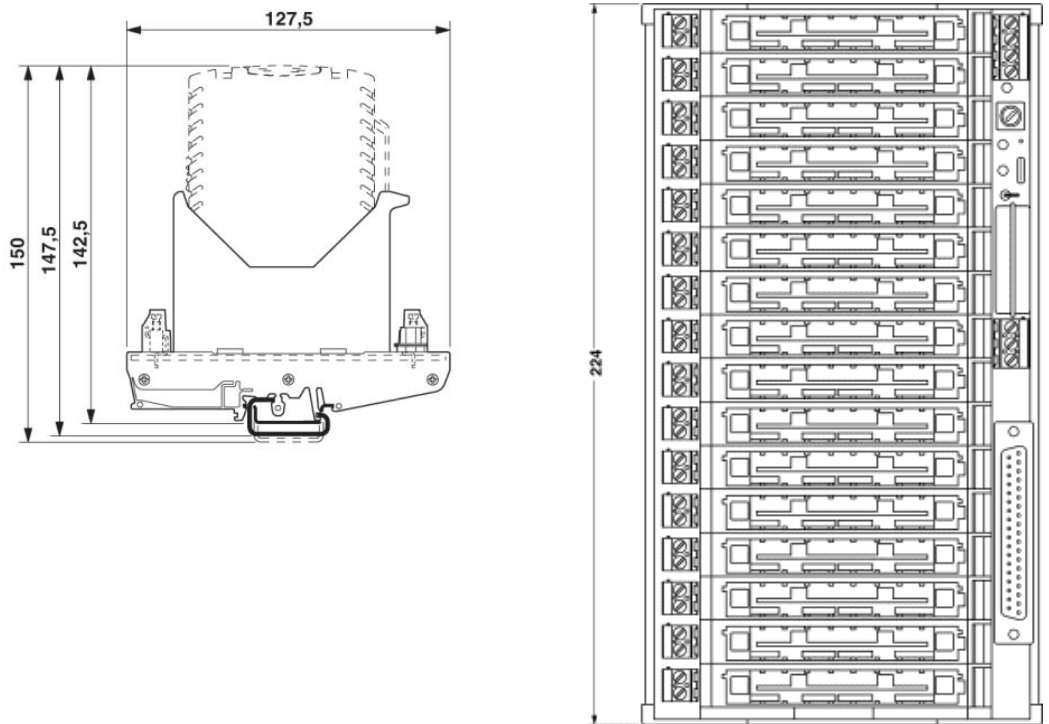
Additional products

Item	Designation	Description
General		
2835626	PI-EX-AIS-I/I	Ex-i analog input: Input isolating amplifier, HART. Sends 4-20 mA signals from externally supplied measuring transducers installed in Ex areas to a load in safe areas. Galvanic 3-way isolation (input / output / supply).
2865120	PI-EX-DO/REL-S	Ex-i binary output: Relay with intrinsically safe contact side. For switching intrinsically safe circuits. Control either with external switching voltages or floating switch contacts. With additional hand-operated level. Electrical isolation.
2835613	PI-EX-IDS-I/I	Ex-i output isolating amplifier, HART-capable. Isolates and sends intrinsically safe 0/4-20 mA signals to a load (I/P converters, control valves, displays) in Ex areas. Galvanic 3-way isolation (input / output / supply). Line fault detection.
2835341	PI-EX-NAM/RNO-NE	Ex-i binary input: NAMUR isolation amplifiers. For operating proximity sensors and switches in Ex areas. The binary signals are transmitted to a safe area. Relay output (N/O contact), line fault detection. Galvanic 3-way isolation.
2835574	PI-EX-NAM/TO	Ex-i binary input: NAMUR isolation amplifiers. For operating proximity sensors and switches in Ex areas. The binary signals are transmitted to a safe area. Transistor output (active), line fault detection. Electrical isolation.
2865117	PI-EX-NAM/TO-P	Ex-i binary input: NAMUR isolation amplifiers. For operating proximity sensors and switches in Ex areas. The signals are transmitted to a safe area. Transistor output (passive), line fault detection. Galvanic 3-way isolation.
2835011	PI-EX-RPSS-I/I	Ex-i analog input: Repeater power supply, HART. Feeds intrinsically safe 2- or 3-conductor measuring transducers installed in an Ex area and transmits the 4-20 mA signal to a load in a safe area. Galvanic 3-way isolation (input / output / supply).
2835066	PI-EX-RTD-I	Ex-i resistance thermometer input: Converts signals of Pt 100 resistance thermometers installed in the Ex zone and transfers a 4 mA ... 20 mA signal to a load in the safe zone. Freely programmable. Galvanic 3-way isolation.
2835590	PI-EX-RTD-I-NC	Ex-i temperature measuring transducer: Converts signals from Pt 100 resistance thermometers installed in Ex areas and transmits a 4 - 20 mA signal to a load in a safe area. Freely programmable. Galvanic 3-way isolation. Configurable.
2865201	PI-EX-SD-21-25	Ex-i solenoid driver, pluggable. To control intrinsically safe solenoid valves, alarm modules as well as simple electric equipment installed in Ex areas. For Group IIC gases, loop-powered. Electrical isolation.

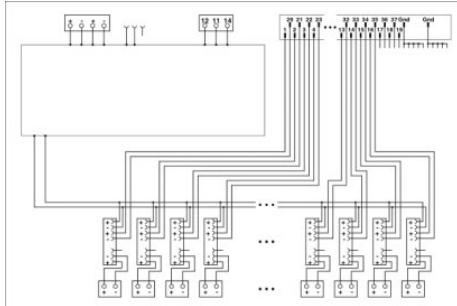
2865913	PI-EX-SD-21-40	Ex-i solenoid driver, pluggable. To control intrinsically safe solenoid valves, alarm modules as well as simple electric equipment installed in Ex areas. For Group IIC gases, loop-powered. Electrical isolation.
2865188	PI-EX-SD-21-60	Ex-i solenoid driver, pluggable. To control intrinsically safe solenoid valves, alarm modules as well as simple electric equipment installed in Ex areas. For Group IIB gases, loop-powered. Electrical isolation.
2865298	PI-EX-SD-24-48	Ex-i solenoid driver, pluggable. To control intrinsically safe solenoid valves, alarm modules as well as simple electric equipment installed in Ex areas. For Group IIC gases, loop-powered. Electrical isolation.
2835079	PI-EX-THC-I	Ex-i thermocouple and mV input: Converts signals from thermocouples installed in Ex areas and mV sources and transmits a 4-20 mA signal to a load in a safe area. Freely programmable. Galvanic 3-way isolation. Custom-configured.
2835600	PI-EX-THC-I-NC	Ex-i thermocouple and mV input: Converts signals from thermocouples installed in Ex areas and mV sources and transmits a 4-20 mA signal to a load in a safe area. Freely programmable. Galvanic 3-way isolation. Standard configuration.

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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