

PI-EX-MB-DI/16/FLK14/PLC/KD-S1 - Basic terminal block



2835985
<https://www.phoenixcontact.com/us/products/2835985>

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Ex i motherboard to accept 16 x PI-Ex i NAMUR repeater power supplies (PI-EX-NAM...), FLK pin strips for connection to S7-300 digital in cards using system cables, disconnect plug terminal blocks for the field side, assembly on NS 32, or NS 35/7.5.

Commercial data

Item number	2835985
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK1XXX
GTIN	4017918909130
Weight per piece (including packing)	992.7 g
Weight per piece (excluding packing)	925.3 g
Country of origin	DE

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Technical data

Product properties

Product type	Module carrier
Application	Base element

Electrical properties

Nominal voltage U_N	20 V DC ... 35 V DC
Nominal current I_N	60 mA (max. current consumption)

Supply

Redundant supply	yes, decoupled from diodes
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Connection data

Controller level

Connection method	FLK pin strip
Number of connections	2
Number of positions	14

Field level

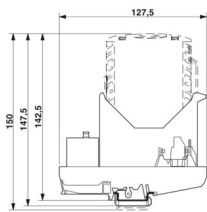
Connection method	Screw connection
Stripping length	8 mm
Number of positions	32
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm

Ex data

Safety data

Max. output voltage U_o	≤ 30 V
Safety-related maximum voltage U_m	250 V

Dimensions

Dimensional drawing	
Width	260 mm
Height	127.5 mm
Depth	92 mm

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Depth NS 35/7,5	142.5 mm (with NS 35/7.5 coupling connector)
Depth NS 32	147.5 mm (with NS 32 coupling connector)
Depth NS 35/15	150 mm (with NS 35/15 coupling connector)

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Housing insulation material	Polyamide PA non-reinforced, polycarbonate PC

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 75 °C

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	Ex II (1) G [Ex ia Ga] IIC
	Ex II (1) D [Ex ia Da] IIIC
	Ex II 3 (1) G Ex nA [ia Ga] IIC T4 Gc
Certificate	KEMA 99ATEX7296
	PxCIF08ATEX2835325X

EAC Ex

Identification	Ex [Ex ia Ga] IIC
Certificate	RU C-DE.AB72.B.00097/19

Mounting

Mounting type	DIN rail mounting
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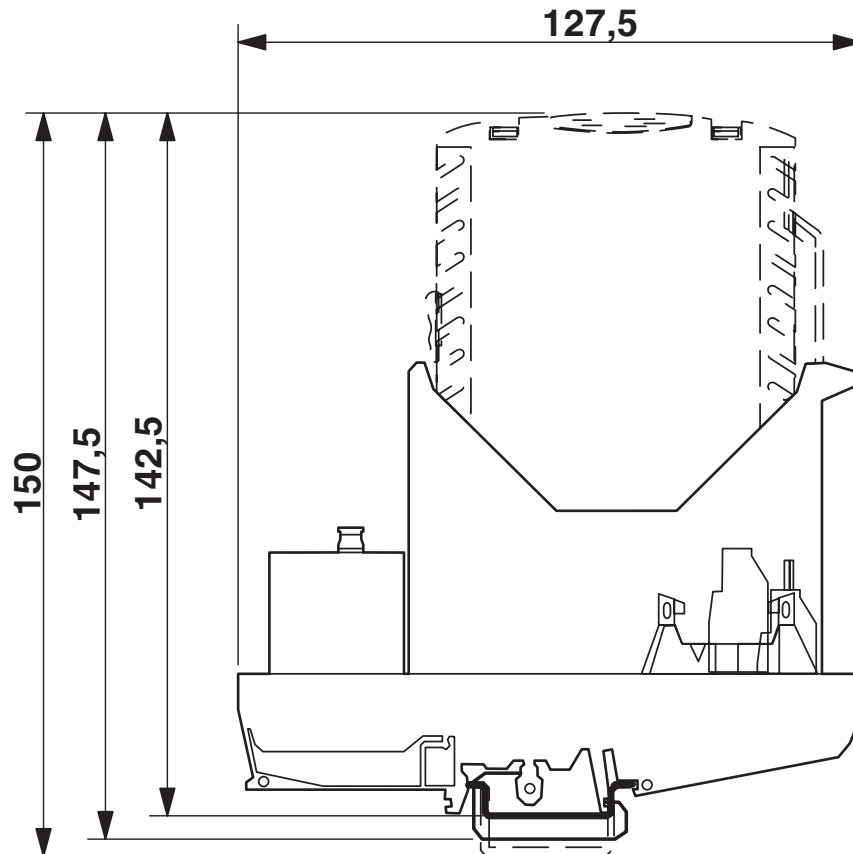
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2835985

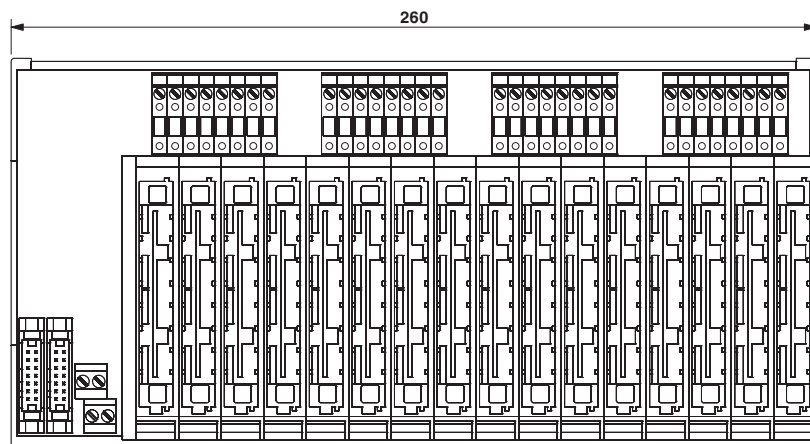
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Drawings

Dimensional drawing



Dimensional drawing



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Classifications

ETIM

ETIM 8.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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