

HK 4-FS(8-2,8-0,8) - Feed-through terminal block



2017017

<https://www.phoenixcontact.com/pc/products/2017017>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, 1st level connection left, connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.2 mm² - 4 mm², connection method: Spade connection, mounting: NS 32, color: gray

Your advantages

- User-friendly operation, i.e., unobstructed view of plugs, good access to plugs, and fast connection check
- Designation read from the front
- Attractive appearance due to the elegant conductor conduit in the lateral cable ducts
- Terminal blocks and bridge connections eliminated

Commercial data

Item number	2017017
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	BE511X
GTIN	4017918052652
Weight per piece (including packing)	11.15 g
Weight per piece (excluding packing)	10.99 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Hybrid terminal block
Number of connections	9
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Number of connections per level	9
Nominal cross section	4 mm ²

1st level connection left

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	9 mm
Internal cylindrical gage	A3
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm ² ... 4 mm ²
Conductor cross-section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 4 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Cross-section with insertion bridge, rigid	4 mm ²
Cross-section with insertion bridge, flexible	4 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² ... 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 2.5 mm ²
Nominal current	32 A
Maximum load current	40 A (with 4 mm ² conductor cross-section)
Nominal voltage	800 V
Nominal cross section	4 mm ²
Connection method	Spade connection

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Dimensions

Width	6.2 mm
End cover width	2.3 mm
Height	54 mm
Depth on NS 32	56.5 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Mechanical properties

Mechanical data

Open side panel	Yes
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

Mounting

Mounting type	NS 32
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Drawings

Circuit diagram

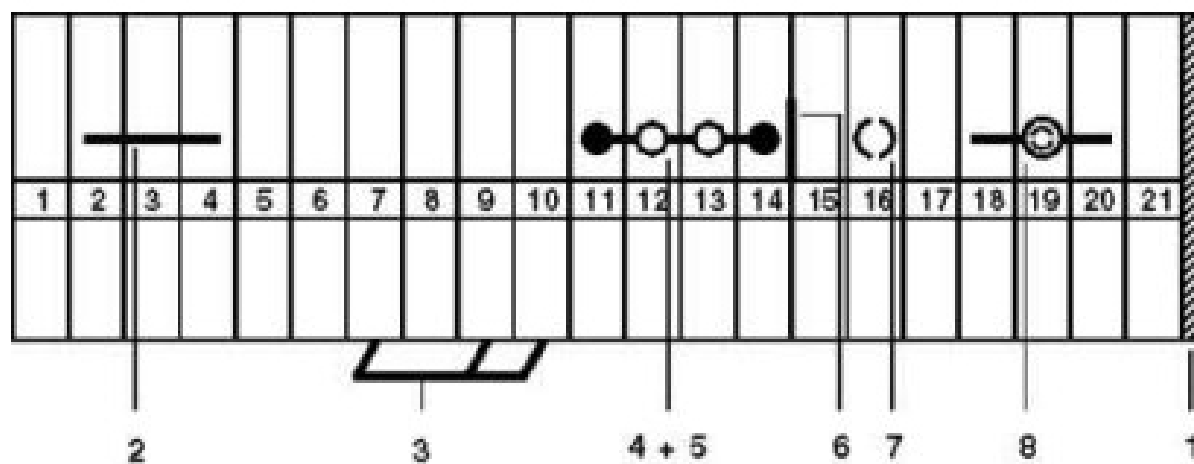


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Circuit diagram



- 1 = cover
- 2 = fixed bridge
- 3 = insertion bridge
- 4 = isolator bridge bar
- 5 = bridge bar isolator
- 6 = separating plate
- 7 = partition plate
- 8 = test plug socket

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2017017>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	20 A	28 - 14	-

 UL Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	250 V	25 A	28 - 12	-
C				
	150 V	25 A	28 - 12	-

 EAC Approval ID: RU C-DE.BL08.B.00541				
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Classifications

ECLASS

ECLASS-13.0	27250201
ECLASS-15.0	27250201

ETIM

ETIM 9.0	EC000897
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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
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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Accessories



Note: Applying some accessories below might limit this product.

EB 3- 6 - Insertion bridge

0201142

<https://www.phoenixcontact.com/pc/products/0201142>

Insertion bridge, pitch: 6.2 mm, number of positions: 3, color: gray



Max. current carrying capacity: 30 A

EB 2- 6 - Insertion bridge

0201155

<https://www.phoenixcontact.com/pc/products/0201155>

Insertion bridge, pitch: 6.2 mm, number of positions: 2, color: gray



Max. current carrying capacity: 30 A

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EB 10- 6 - Insertion bridge

0201139

<https://www.phoenixcontact.com/pc/products/0201139>

Insertion bridge, pitch: 6.2 mm, number of positions: 10, color: gray



 Max. current carrying capacity: 30 A

D-HK 4 - End cover

2002022

<https://www.phoenixcontact.com/pc/products/2002022>

End cover, depth: 41.5 mm, width: 2.3 mm, height: 54 mm, color: gray



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D-UVK 4 - End cover

1922022

<https://www.phoenixcontact.com/pc/products/1922022>



End cover, width: 2.3 mm, color: gray

SBS 6:UNBEDRUCKT - Marker card

1007222

<https://www.phoenixcontact.com/pc/products/1007222>



Marker card, Card, white, unmarked, can be labeled with: Marker pen, mounting type: latching, snap into flat marker groove, for terminal block width: 6 mm, Number of individual labels: 250, text field height: 6 mm, text field width: 6.1 mm

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NS 32 PERF 2000MM-VPE 10 - DIN rail perforated

1201002

<https://www.phoenixcontact.com/pc/products/1201002>



DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

NS 32 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201015

<https://www.phoenixcontact.com/pc/products/1201015>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver-colored

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C-SCF 1/2,8X0,5 - Connector

3240152

<https://www.phoenixcontact.com/pc/products/3240152>



Slip-on sleeve, non-insulated, 0.5 ... 1 mm², 2.8 x 0.5

C-SCFI 1,5/2,8X0,5 - Connector

3240048

<https://www.phoenixcontact.com/pc/products/3240048>



Slip-on sleeve, red, 0.5 ... 1.5 mm², 2.8 x 0.5

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C-SCF 1/2,8X0,8 - Connector

3240153

<https://www.phoenixcontact.com/pc/products/3240153>



Slip-on sleeve, non-insulated, 0.5 ... 1 mm², 2.8 x 0.8

C-SCFI 1,5/2,8X0,8 - Connector

3240049

<https://www.phoenixcontact.com/pc/products/3240049>



Slip-on sleeve, red, 0.5 ... 1.5 mm², 2.8 x 0.8

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C-SCF 1,5/6,3X0,8 - Connector

3240156

<https://www.phoenixcontact.com/pc/products/3240156>



Slip-on sleeve, non-insulated, 0.5 ... 1.5 mm², 6.3 x 0.8

C-SCFI 1,5/6,3X0,8 - Connector

3240052

<https://www.phoenixcontact.com/pc/products/3240052>



Slip-on sleeve, red, 0.5 ... 1.5 mm², 6.3 x 0.8

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C-SCF 2,5/6,3X0,8 - Connector

3240159

<https://www.phoenixcontact.com/pc/products/3240159>



Slip-on sleeve, non-insulated, 1.5 ... 2.5 mm², 6.3 x 0.8

C-SCFI 2,5/6,3X0,8 - Connector

3240055

<https://www.phoenixcontact.com/pc/products/3240055>



Slip-on sleeve, blue, 1.5 ... 2.5 mm², 6.3 x 0.8

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C-SCF 6/6,3X0,8 - Connector

3240160

<https://www.phoenixcontact.com/pc/products/3240160>



Slip-on sleeve, non-insulated, 4 ... 6 mm², 6.3 x 0.8

C-SCFI 6/6,3X0,8 - Connector

3240056

<https://www.phoenixcontact.com/pc/products/3240056>



Slip-on sleeve, yellow, 4 ... 6 mm², 6.3 x 0.8

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PT/FS 2,8 - Insulating sleeve

1406700

<https://www.phoenixcontact.com/pc/products/1406700>

Insulating sleeve, as touch protection, slide onto the conductor before for 2.8 slip-on sleeves



PT/FS 6,3 - Insulating sleeve

0604707

<https://www.phoenixcontact.com/pc/products/0604707>

Insulating sleeve, as touch protection, slide onto the conductor before for 6.3 slip-on sleeves



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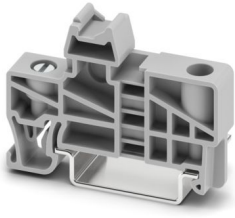
<https://www.phoenixcontact.com/pc/products/2017017>

E/UK - End bracket

1201442

<https://www.phoenixcontact.com/pc/products/1201442>

End bracket, material: PA, mounting type: NS 35/7,5, NS 35/15, color: gray



E/UK 1 - End bracket

1201413

<https://www.phoenixcontact.com/pc/products/1201413>

End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray



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SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/pc/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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