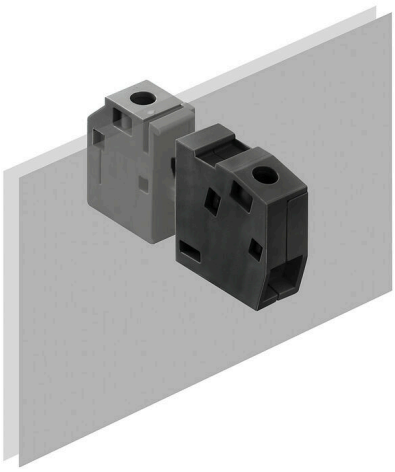
Data sheet

WGK 4 BK BX

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com





The WGK finger-proof-insulated enclosures are especially suitable as industrial electronic enclosures for frequency converters, power supplies or filter components which offer a convenient and reliable form of connection internally and externally. To match the wire guides to the installation requirements in the best possible way, Weidmüller offers two versions with horizontal (WGK) and vertical (WGKV) outlet directions.

General ordering data

Version	OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 4 mm², Screw connection, Wemid (PA), black, Direct mounting, Feed-through (bushing)
Order No.	1250930000
Type	WGK 4 BK BX
GTIN (EAN)	4050118042191
Qty.	50 items
Product data	IEC: 500 V / 32 A / 0.5 - 6 mm² UL: 300 V / 30 A / AWG 30 - AWG 10
Packaging	Box

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Data sheet

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Dimensions and weights

Height	21.5 mm	Height (inches)	0.8465 inch
Height of lowest version	21.5 mm	Width	8.1 mm
Width (inches)	0.3189 inch	Length	8.1 mm
Length (inches)	0.3189 inch	Net weight	8.48 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System parameters

Product family	OMNIMATE Power - series WGK	Wire connection method	Screw connection
Conductor outlet direction	180°	Number of poles	1
Pin series quantity	1	Fitted by customer	No
Screwdriver blade	0.6 x 3.5	Tightening torque, min.	0.6 Nm
Tightening torque, max.	0.8 Nm	Clamping screw	M 3
Stripping length	8 mm	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20	Type of connection 1	Clamping yoke
Type of connection 2	Clamping yoke		

Material data

Insulating material	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

Conductors suitable for connection

Clamping range, min.	0.5 mm²
Clamping range, max.	6 mm²
Wire connection cross section AWG, min.	AWG 30
Wire connection cross section AWG, max.	AWG 10
Solid, min. H05(07) V-U	0.5 mm²
Solid, max. H05(07) V-U	6 mm²
Stranded, min. H07V-R	0.5 mm²
Stranded, max. H07V-R	4 mm²
Flexible, min. H05(07) V-K	0.5 mm²
Flexible, max. H05(07) V-K	4 mm²

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Technical data

w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, max.	4 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm²
w. wire end ferrule, DIN 46228 pt 1, max.	4 mm²

Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	1.5 mm²	
	wire end ferrule	Stripping length	nominal	7 mm
		Recommended wire-end ferrule	H1,5/7	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm²	
	wire end ferrule	Stripping length	nominal	7 mm
		Recommended wire-end ferrule	H2,5/7	
Reference text	Length of ferrules is to be chosen depending on the product and the rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P)			

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1	Rated current, min. number of poles (Tu=20°C)	32 A
Rated current, max. number of poles (Tu=20°C)	32 A	Rated voltage for surge voltage class / pollution degree III/3	500 V
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV		

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	30 A
Rated current (Use group C / CSA)	30 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 30	Wire cross-section, AWG, max.	AWG 10

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	30 A
Rated current (Use group C / UL 1059)	30 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 30	Wire cross-section, AWG, max.	AWG 10
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	153.00 mm
VPE width	85.00 mm	VPE height	83.00 mm

Important note

Notes	• Clearance and creepage distances to other components must be devised in accordance with the relevant application standard. This can be achieved in the device by full encapsulation or by the use of additional spacer plates. • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

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Technical data

- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional variants on request
- WGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V
- WGKV: Rated voltage plastic walls: 1 - 4 mm = 400 V; metal walls: 1 - 2.5 mm = 400 V; metal walls: 2.5 - 4 mm = 250 V
- VWGK: Rated voltage plastic walls: 1 - 4 mm = 500 V; metal walls: 1 - 4 mm = 500 V
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC001283	ETIM 9.0	EC001283
ETIM 10.0	EC001283	ECLASS 14.0	27-14-11-34
ECLASS 15.0	27-14-11-34		

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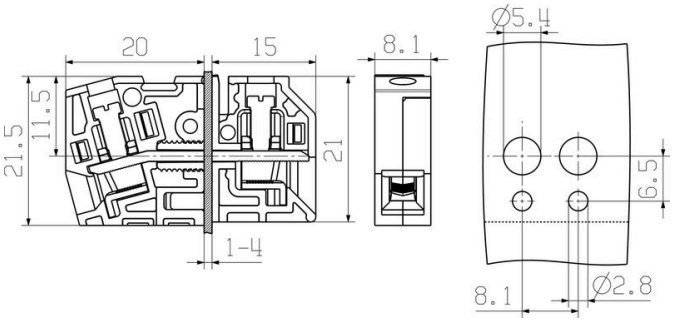
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Drawings

Dimensional drawing



Graph

Graph

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