

VWGK 6 BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

The V versions of the WGK feed-through terminals with an insulated housing and clamping yoke connections on the external side, and a solder connection on the internal side for use in encapsulated devices (e.g. EMC filters).

General ordering data

Version	OMNIMATE Power - series WGK, Feed-through terminal, Rated cross-section: 6 mm ² , Wemid (PA), Direct mounting, Feed-through (bushing)
Order No.	2484810000
Type	VWGK 6 BK BX
GTIN (EAN)	4050118520484
Qty.	50 pc(s).
Product data	IEC: 500 V / 41 A / 0.5 - 10 mm ² UL: 300 V / 50 A / AWG 22 - AWG 10
Packaging	Box

Creation date May 23, 2024 1:55:22 PM CEST

Catalogue status 18.05.2024 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Height	31.5 mm	Height (inches)	1.24 inch
Height of lowest version	31.5 mm	Width	10 mm
Width (inches)	0.394 inch	Length	15.5 mm
Length (inches)	0.61 inch	Net weight	7.1 g

System parameters

Product family	OMNIMATE Power - series WGK	Wire connection method	Screw / solder connection
Conductor outlet direction	180°	Number of poles	1
Fitted by customer	No	Screwdriver blade	0.8 x 4.0
Tightening torque, min.	0.8 Nm	Tightening torque, max.	1.8 Nm
Clamping screw	M 3.5	Stripping length	13 mm
Touch-safe protection acc. to DIN VDE 0470	IP 20	Protection degree	IP20

Material data

Insulating material	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	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 mm ²
Clamping range, max.	10 mm ²
Wire connection cross section AWG, min.	AWG 22
Wire connection cross section AWG, max.	AWG 10
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	10 mm ²
Stranded, max. H07V-R	6 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	6 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	6 mm ²

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Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm ²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H2.5/12	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	4 mm ²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H4,0/12	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	6 mm ²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H6,0/12	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	1.5 mm ²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H1.5/12	

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)	41 A
Rated current, max. number of poles (Tu=20°C)	41 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)	50 A
Rated current (Use group C / CSA)	50 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 10

Rated data acc. to UL 1059

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)	50 A
Rated current (Use group C / UL 1059)	50 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 10

Packing

Packaging	Box	VPE length	124 mm
VPE width	117 mm	VPE height	50 mm

Classifications

ETIM 6.0	EC001283	ETIM 7.0	EC001283
ETIM 8.0	EC001283	ETIM 9.0	EC001283
ECLASS 9.0	27-14-11-34	ECLASS 9.1	27-14-11-34
ECLASS 10.0	27-14-11-34	ECLASS 11.0	27-14-11-34
ECLASS 12.0	27-14-11-34	ECLASS 13.0	27-14-11-34

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www.weidmueller.com**Technical data****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.
- Colours: SW = black; GN/YL = green/yellow; GY = grey
- Additional variants on request
- 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

Approvals

ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[CAD data – STEP](#)

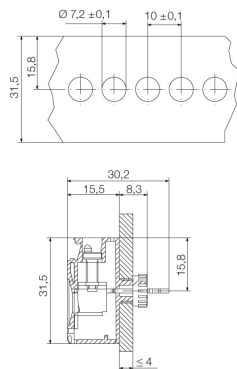
Catalogues

[Catalogues in PDF-format](#)

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Drawings**Dimensional drawing**

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Accessories

Slotted screwdriver

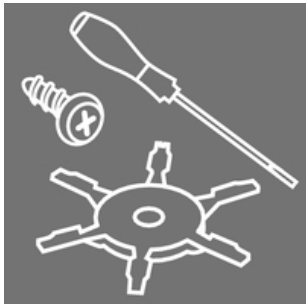


VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Type	SDIS 0.8X4.0X100	Version
Order No.	2749820000	Screwdriver, Blade width (B): 4 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118897029	thickness (A): 0.8 mm
Qty.	1 pc(s).	

Accessories



Integrate, expand and customise: the perfect supplement to every application.

Universal system accessories enable easy adaptation of the interfaces to fulfil specific requirements for the relevant application.

General ordering data

Type	DP VWGK 6 GY BX	Version	Product data
Order No.	1965750000	OMNIMATE Power - series WGK, Feed-through terminal	UL:
GTIN (EAN)	4032248758999		
Qty.	50 pc(s).		
Type	DP VWGK 6 BK BX	Version	Product data
Order No.	1250630000	OMNIMATE Power - series WGK, Feed-through terminal	UL:
GTIN (EAN)	4050118041712		
Qty.	50 pc(s).		

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Accessories

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	DEK 5/5 MC NE WS	Version
Order No.	1609801044	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1,000 pc(s).	

Blank



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General ordering data

Type	DEK 5/8 MC NE WS	Version
Order No.	1856740000	Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00
GTIN (EAN)	4032248400850	Weidmueller, white
Qty.	800 pc(s).	

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General ordering data

Type	DEK 5/6 MC NE WS	Version
Order No.	1609820000	Dekafix, Terminal marker, 5 x 6 mm, Pitch in mm (P): 6.00
GTIN (EAN)	4008190203436	Weidmueller, white
Qty.	1,000 pc(s).	