

VWGK 4 BK BX

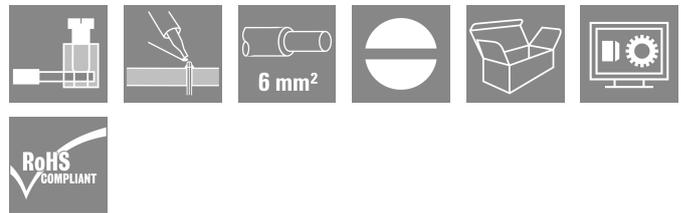
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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: 4 mm ² , Wemid (PA), black, Direct mounting, Feed-through (bushing) |
| Order No. | 1250650000 |
| Type | VWGK 4 BK BX |
| GTIN (EAN) | 4050118041774 |
| Qty. | 50 items |
| Product data | IEC: 500 V / 32 A / 0.5 - 6 mm ² UL: 300 V / 30 A / AWG 30 - AWG 10 |
| Packaging | Box |

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E60693

Dimensions and weights

| | | | |
|--------------------------|-------------|-----------------|-------------|
| Height | 20.5 mm | Height (inches) | 0.8071 inch |
| Height of lowest version | 20.5 mm | Width | 10 mm |
| Width (inches) | 0.3937 inch | Length | 10.6 mm |
| Length (inches) | 0.4173 inch | Net weight | 4.02 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 / solder 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 | Solder connection | | |

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 mm ² |
| Clamping range, max. | 6 mm ² |
| Wire connection cross section AWG, min. | AWG 30 |
| Wire connection cross section AWG, max. | AWG 10 |
| Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 6 mm ² |
| Stranded, min. H07V-R | 0.5 mm ² |
| Stranded, max. H07V-R | 4 mm ² |

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|---|---|--|------------|------------|--|---------|---------------------|--|------------------|------------------|---------|------|------------------------------|------------------------|--|--|------|------------|--|---------|---------------------|--|------------------|------------------|---------|------|------------------------------|------------------------|--|
| Flexible, min. H05(07) V-K | 0.5 mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flexible, max. H05(07) V-K | 4 mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm ² min. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| w. plastic collar ferrule, DIN 46228 pt 4, 4 mm ² max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| w. wire end ferrule, DIN 46228 pt 1, 0.5 mm ² min. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| w. wire end ferrule, DIN 46228 pt 1, 4 mm ² max. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clampable conductor | <table border="1"> <tr> <td rowspan="2">Cross-section for conductor connection</td> <td>Type</td> <td colspan="2">fine-wired</td> </tr> <tr> <td>nominal</td> <td colspan="2">1.5 mm²</td> </tr> <tr> <td rowspan="3">wire end ferrule</td> <td>Stripping length</td> <td>nominal</td> <td>7 mm</td> </tr> <tr> <td>Recommended wire-end ferrule</td> <td colspan="2">H1.5/7</td> </tr> <tr> <td>Cross-section for conductor connection</td> <td>Type</td> <td>fine-wired</td> </tr> <tr> <td></td> <td>nominal</td> <td colspan="2">2.5 mm²</td> </tr> <tr> <td rowspan="3">wire end ferrule</td> <td>Stripping length</td> <td>nominal</td> <td>7 mm</td> </tr> <tr> <td>Recommended wire-end ferrule</td> <td colspan="2">H2.5/7</td> </tr> </table> | Cross-section for conductor connection | Type | fine-wired | | nominal | 1.5 mm ² | | 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 mm ² | | wire end ferrule | Stripping length | nominal | 7 mm | Recommended wire-end ferrule | H2.5/7 | |
| Cross-section for conductor connection | Type | | fine-wired | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | nominal | 1.5 mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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

| | | | |
|-----------------------------------|--|-----------------------------------|----------------|
| Institute (CSA) | CSA | Certificate No. (CSA) | 200039-1830694 |
| 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 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

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 | 112.00 mm |
| VPE width | 87.00 mm | VPE height | 51.00 mm |

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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
- 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 | | |

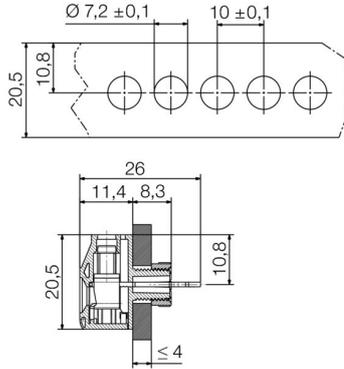
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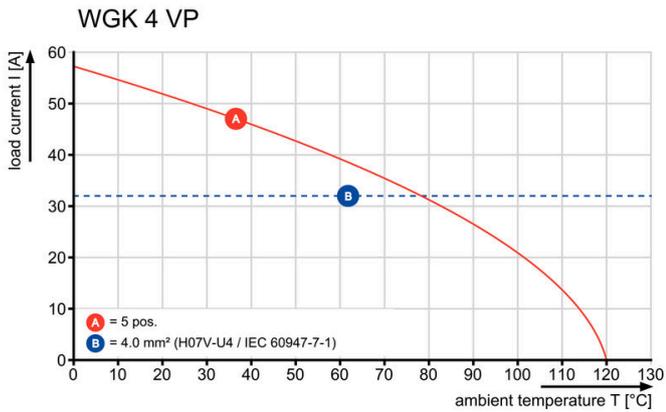
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Drawings

Dimensional drawing



Derating curve



VWGK-4_H07V-U4_LAB-14928_LABOR_2688_EN.eps

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Accessories

Accessories

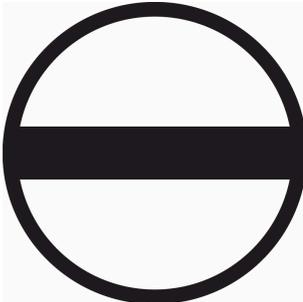


Integrate, expand and customise: the perfect supplement to every application. Universal system accessories enable easy adaptation of the interfaces to fulfil specific requirements for the relevant application.

General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | DP VWGK 4 BK BX | Version | |
| Order No. | 1251030000 | Version | OMNIMATE Power - series WGK, Feed-through terminal |
| GTIN (EAN) | 4050118042597 | | |
| Qty. | 50 ST | | |
| Type | DP VWGK 4 GY BX | Version | |
| Order No. | 1936430000 | Version | OMNIMATE Power - series WGK, Feed-through terminal |
| GTIN (EAN) | 4032248758982 | | |
| Qty. | 50 ST | | |

Slotted screwdriver

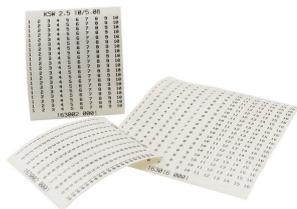


VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive grip output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

| | | | |
|------------|----------------------------|---------|---|
| Type | SDIS 0.6X3.5X100 | Version | |
| Order No. | 2749810000 | Version | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm |
| GTIN (EAN) | 4050118897012 | | |
| Qty. | 1 ST | | |

Special print



KSW marking strips are used to identify multi-pole PCB plug-in connectors. Users can print them individually without being confined to a certain pitch.

- Smudge-proof labelling
- Strips 2.5 mm and 4 mm wide
- Simply stick on - finished
- Optimum adhesion
- PVC-free

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General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | KSW 4 < 50MM SDR | Version | |
| Order No. | 1629910000 | KSW, Terminal marker, 4 x 50 mm, Pitch in mm (P): 50.00 | |
| GTIN (EAN) | 4008190202811 | Weidmueller, white | |
| Qty. | 1 ST | | |