

## WGK 10 BK BX

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

### Product image



Similar to illustration

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: 10 mm <sup>2</sup> , Wemid (PA), Direct mounting, Feed-through (bushing) |
| Order No.    | <a href="#">2439470000</a>  |
| Type         | WGK 10 BK BX  |
| GTIN (EAN)   | 4050118468106   |
| Qty.         | 50 items  |
| Product data | IEC: 500 V / 57 A / 0.5 - 16 mm <sup>2</sup><br>UL: 300 V / 65 A / AWG 24 - AWG 6   |
| 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                   | 31 mm       | Height (inches) | 1.2205 inch |
| Height of lowest version | 31 mm       | Width           | 10.1 mm     |
| Width (inches)           | 0.3976 inch | Length          | 10.1 mm     |
| Length (inches)          | 0.3976 inch | Net weight      | 19.24 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          | 0.8 x 4.0                   | Tightening torque, min.                    | 1.5 Nm           |
| Tightening torque, max.    | 2.4 Nm                      | Clamping screw                             | M 4              |
| Stripping length           | 11 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 mm <sup>2</sup> |
| Clamping range, max.                    | 16 mm <sup>2</sup>  |
| Wire connection cross section AWG, min. | AWG 24              |
| Wire connection cross section AWG, max. | AWG 6               |
| Solid, min. H05(07) V-U                 | 0.5 mm <sup>2</sup> |
| Solid, max. H05(07) V-U                 | 16 mm <sup>2</sup>  |
| Stranded, min. H07V-R                   | 10 mm <sup>2</sup>  |
| Stranded, max. H07V-R                   | 16 mm <sup>2</sup>  |
| Flexible, min. H05(07) V-K              | 0.5 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K              | 10 mm <sup>2</sup>  |

Creation date 24.02.2026 06:18:55 MEZ

Catalogue status / Drawings

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w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm<sup>2</sup>  
min.

w. plastic collar ferrule, DIN 46228 pt 4, 10 mm<sup>2</sup>  
max.

w. wire end ferrule, DIN 46228 pt 1, 0.5 mm<sup>2</sup>  
min.

w. wire end ferrule, DIN 46228 pt 1, 10 mm<sup>2</sup>  
max.

| Clampable conductor                    | Cross-section for conductor connection | Type                         | fine-wired               |
|--|--|------------------------------|--------------------------|
|  |  | nominal                      | 0.5 mm <sup>2</sup>      |
| wire end ferrule                       | wire end ferrule                       | Stripping length             | nominal 10 mm            |
|  |  | Recommended wire-end ferrule | <a href="#">H0.5/10</a>  |
|  |  |                              |                          |
| Cross-section for conductor connection | Cross-section for conductor connection | Type                         | fine-wired               |
|  |  | nominal                      | 0.75 mm <sup>2</sup>     |
| wire end ferrule                       | wire end ferrule                       | Stripping length             | nominal 10 mm            |
|  |  | Recommended wire-end ferrule | <a href="#">H0.75/10</a> |
|  |  |                              |                          |
| Cross-section for conductor connection | Cross-section for conductor connection | Type                         | fine-wired               |
|  |  | nominal                      | 1 mm <sup>2</sup>        |
| wire end ferrule                       | wire end ferrule                       | Stripping length             | nominal 10 mm            |
|  |  | Recommended wire-end ferrule | <a href="#">H1.0/10</a>  |
|  |  |                              |                          |

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)                  | 57 A  |
| Rated current, max. number of poles (Tu=20°C)                             | 57 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) | 65 A  |
| Rated current (Use group C / CSA) | 65 A   | Rated current (Use group D / CSA) | 10 A  |
| Wire cross-section, AWG, min.     | AWG 24 | Wire cross-section, AWG, max.     | AWG 6 |

### 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) | 65 A   |
| Rated current (Use group C / UL 1059) | 65 A   | Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, min.         | AWG 24   | Wire cross-section, AWG, max.         | AWG 6  |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |                                       |        |

### Packing

|           |           |            |           |
|-----------|-----------|------------|-----------|
| Packaging | Box       | VPE length | 211.00 mm |
| VPE width | 129.00 mm | VPE height | 86.00 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
- 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 |             |             |

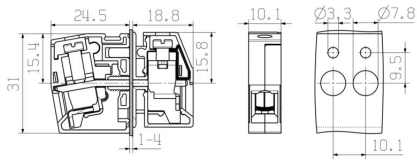
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**Drawings**

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**Dimensional drawing**



**Derating curve**

