

## WGKV 4 GY BX

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

### Product image



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 mm <sup>2</sup> , Screw connection, Wemid (PA), grey, Feed-through (bushing) |
| Order No.    | <a href="#">1934050000</a>                                                                                                                              |
| Type         | WGKV 4 GY BX                                                                                                                                            |
| GTIN (EAN)   | 4032248588626                                                                                                                                           |
| Qty.         | 50 pc(s).                                                                                                                                               |
| Product data | IEC: 500 V / 32 A / 0.5 - 6 mm <sup>2</sup><br>UL: 300 V / 30 A / AWG 30 - AWG 10                                                                       |
| Packaging    | Box                                                                                                                                                     |

Creation date March 26, 2021 10:05:22 AM CET

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## Technical data

## Dimensions and weights

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Height                   | 24 mm      | Height (inches) | 0.945 inch |
| Height of lowest version | 24 mm      | Length          | 40 mm      |
| Length (inches)          | 1.575 inch | Net weight      | 8.7 g      |
| Width                    | 8.1 mm     | Width (inches)  | 0.319 inch |

## System parameters

|                            |                             |                                            |                  |
|----------------------------|-----------------------------|--------------------------------------------|------------------|
| Product family             | OMNIMATE Power - series WGK | Wire connection method                     | Screw connection |
| Conductor outlet direction | 90°/270°                    | 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            |

## Material data

|                                       |            |                                       |        |
|---------------------------------------|------------|---------------------------------------|--------|
| Insulating material                   | Wemid (PA) | Colour                                | grey   |
| Colour chart (similar)                | RAL 7035   | UL 94 flammability rating             | V-0    |
| Contact material                      | E-Cu       | 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                                                                                                                                                                  |                              |                        |      |
| Flexible, min. H05(07) V-K                | 0.5 mm²                                                                                                                                                                |                              |                        |      |
| Flexible, max. H05(07) V-K                | 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 | <a href="#">H1.5/7</a> |      |
|                                           | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired             |      |
|                                           |                                                                                                                                                                        | nominal                      | 2.5 mm²                |      |
|                                           | wire end ferrule                                                                                                                                                       | Stripping length             | nominal                | 7 mm |
|                                           |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H2.5/7</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) |                              |                        |      |

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## Technical data

## Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

Rated current, max. number of poles  
(Tu=20°C)

32 A

Rated impulse voltage for surge voltage  
class/ contamination degree III/3

6 kV

Rated current, min. number of poles  
(Tu=20°C)

32 A

Rated voltage for surge voltage class /  
pollution degree III/3

500 V

## Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

200039-1830694

Rated voltage (Use group B / CSA)

300 V

Rated voltage (Use group D / CSA)

300 V

Rated current (Use group C / CSA)

30 A

Wire cross-section, AWG, min.

AWG 30

Reference to approval values

Specifications are  
maximum values, details -  
see approval certificate.

Rated voltage (Use group C / CSA)

300 V

Rated current (Use group B / CSA)

30 A

Rated current (Use group D / CSA)

10 A

Wire cross-section, AWG, max.

AWG 10

## Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059)

300 V

Rated voltage (Use group D / UL 1059)

300 V

Rated current (Use group C / UL 1059)

30 A

Wire cross-section, AWG, min.

AWG 30

Reference to approval values

Specifications are  
maximum values, details -  
see approval certificate.

Rated voltage (Use group C / UL 1059)

300 V

Rated current (Use group B / UL 1059)

30 A

Rated current (Use group D / UL 1059)

10 A

Wire cross-section, AWG, max.

AWG 10

## Packing

Packaging

Box

VPE length

70 mm

VPE width

80 mm

VPE height

150 mm

## Classifications

ETIM 6.0

EC001283

ETIM 7.0

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

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## 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 colours 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 average humidity 70%, 36 months

## Approvals

## Approvals



ROHS Conform

UL File Number Search E60693

## Downloads

Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD](#)

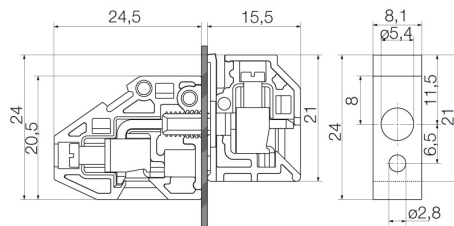
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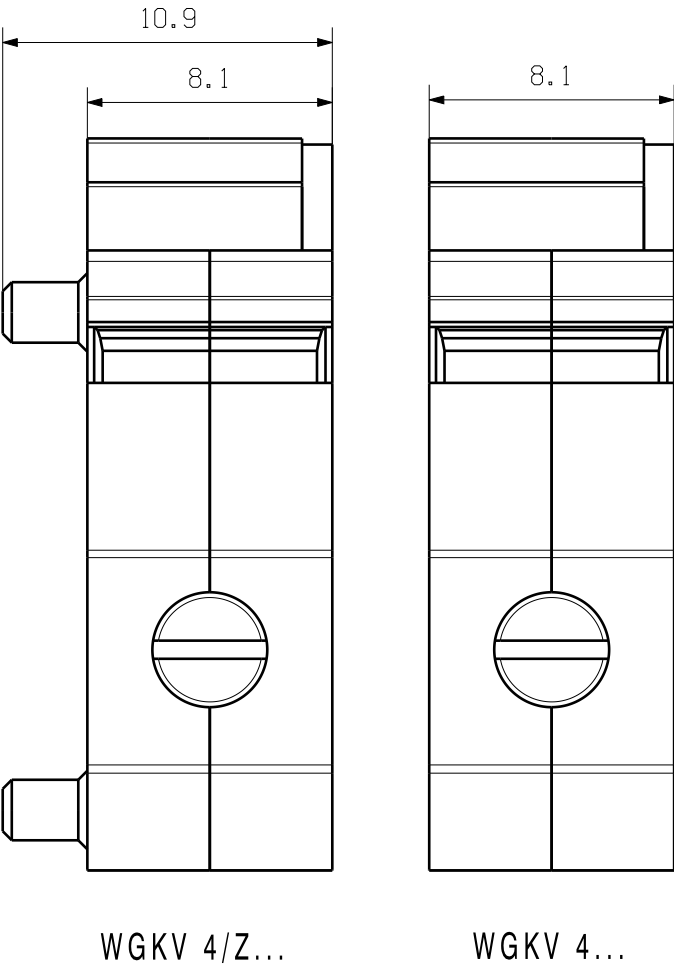
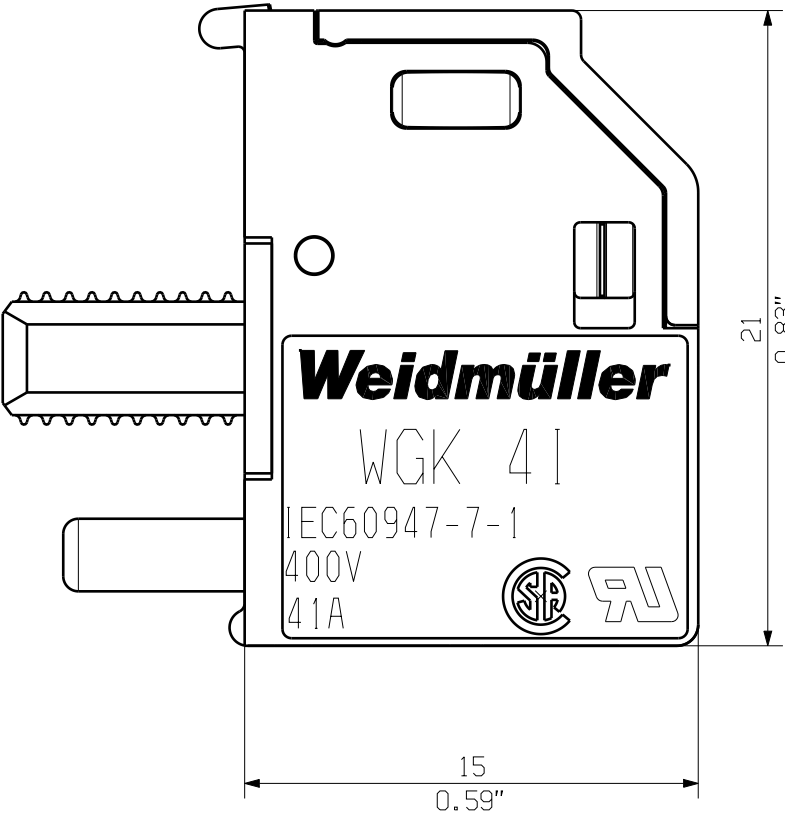
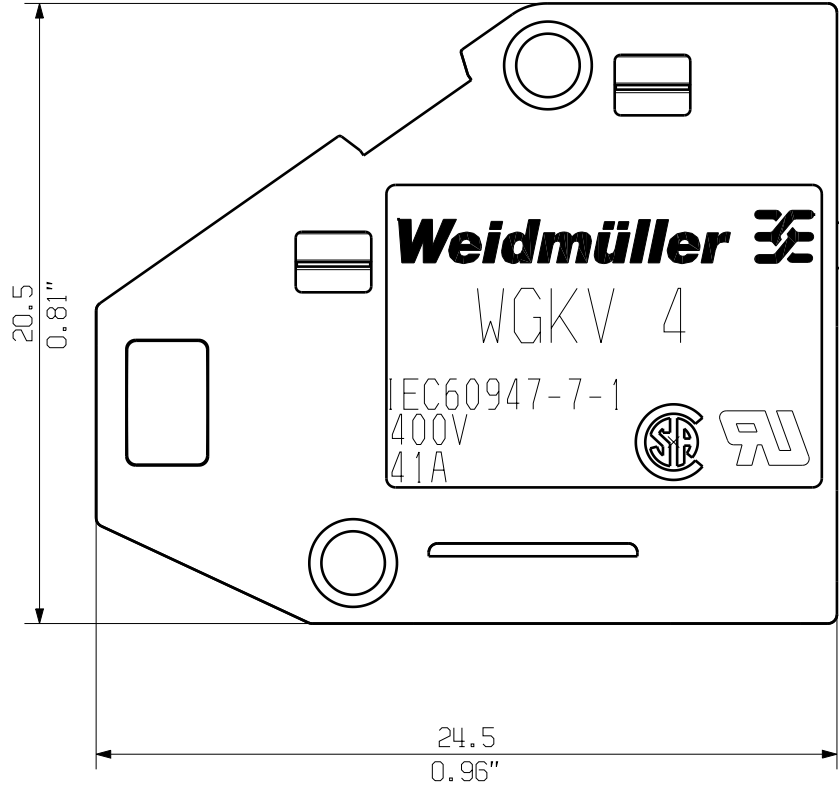
## Drawings

### Dimensional drawing



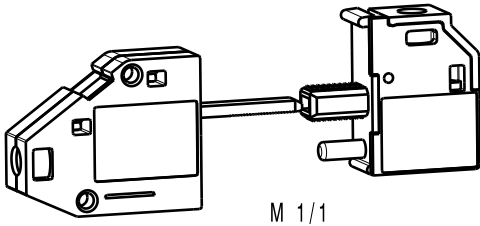
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KUNDENZEICHNUNG  
CUSTOMER DRAWING

rated data  
rated cross-section 4 mm<sup>2</sup>  
rated current 41A  
rated voltage 400V



|                                      |           |                          |            |        |                                                                                          |  |            |  |
|--------------------------------------|-----------|--------------------------|------------|--------|------------------------------------------------------------------------------------------|--|------------|--|
| GENERAL TOLERANCE:<br>DIN ISO 2768-m |           | 91733/5<br>21.03.17 MA_J |            | 01     | <div>WEIDMÜLLER</div>                                                                    |  | Cat.no.: . |  |
|                                      |           | Modification             |            |        |                                                                                          |  | 3 42873 02 |  |
| <div>RoHS COMPLIANT</div>            | Max. nos. |                          |            |        | Drawing no.                                                                              |  | Issue no.  |  |
|                                      |           |                          |            |        | Sheet 01 of 01 sheets                                                                    |  |            |  |
| <div>Technical drawing symbols</div> |           |                          | Date       | Name   | <div>WGKV 4...</div> <div>DURCHGANGS-REIHENKLEMME</div> <div>FEED-THROUGH TERMINAL</div> |  |            |  |
|                                      |           | Drawn                    | 04.04.2006 | ZHOU_B |                                                                                          |  |            |  |
|                                      |           | Responsible              |            | MA_J   |                                                                                          |  |            |  |
| Scale: 4/1                           | Checked   | 22.03.2017               | ZHOU_N     |        |                                                                                          |  |            |  |
| Supersedes: .                        |           | Approved                 |            | XU_S   | Product file: WGKV 4                                                                     |  |            |  |
|                                      |           |                          |            |        | 5250                                                                                     |  |            |  |