

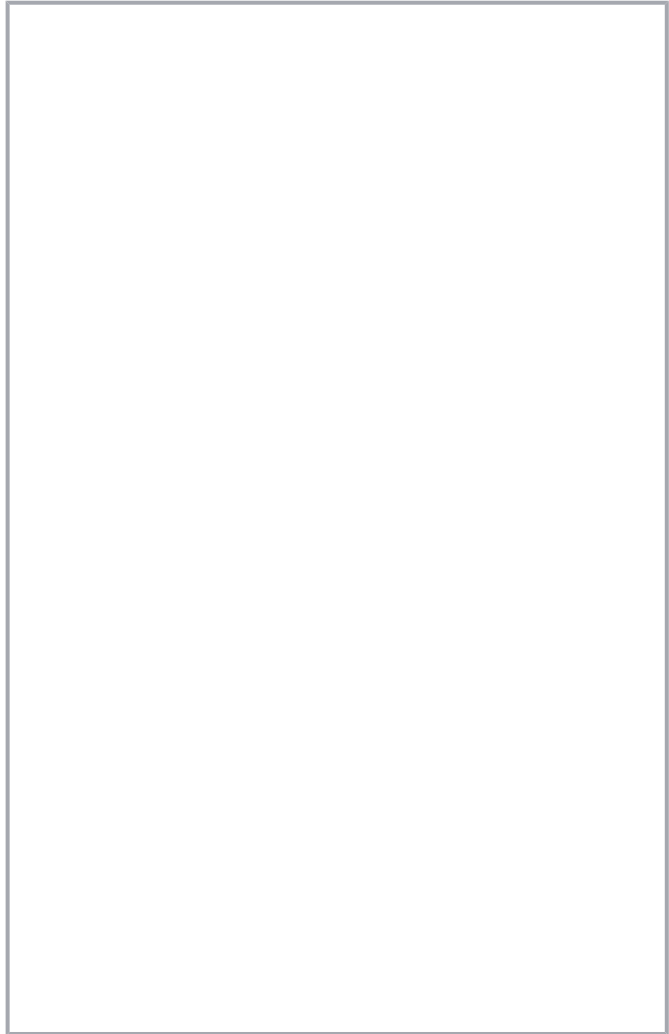
Data sheet | Item number: 890-852

Plug for PCBs; straight; 2-pole; Cod. B; gray

www.wago.com/890-852



Color:



Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Item description

Male connector/plug *WINSTA*® MINI with protection against mismatching

The *WINSTA*® MINI male connector/plug B coding offers secure, easy handling to support drive and control technology tasks. Our remarkable selection of pluggable PCB connectors with different insertion directions and operating variants offers you the perfect solution for your application at all times. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. Solutions like the *WINSTA*® MINI pcb connectors with B coding are suitable for applications involving process control, for example, for lighting or within data networks. If only limited space is available, our smallest pluggable connection system, *WINSTA*® MINI, consistently displays its advantages. It saves space, and, with Push-in CAGE CLAMP® spring pressure connection technology, it also can be installed quickly, since the connection is low-maintenance and can be performed without screw connections.

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



WINSTA® MINI solutions for your electrical installation – protected against mismatching and maintenance-free

The WINSTA® Pluggable Connection System is perfectly tailored to the strict requirements of building installation. It makes electrical installation pluggable, and therefore faster, more reliable, and error-free. Use of this pre-assembled system reduces time spent on assembly and installation errors at the construction site. Choose quality and durability – with protection against mismatching from WAGO makes the electrical installation of electrical components substantially easier.

-
- pcb connectors with protection against mismatching
- consistent IP40 protection
- for automation controllers
- rapid, structured electrical installation

Data

Notes

Variants:

Other pole markings

Other versions (or variants) can be requested from WAGO Sales or configured at <https://configurator.wago.com/>.

Electrical data

Ratings per IEC/EN

| | |
|-------------------------------|---|
| Ratings per | IEC/EN 60664-1 |
| Nominal voltage (III/3) | 250 V |
| Rated impulse voltage (III/3) | 4 kV |
| Rated current | 16 A |
| Legend (ratings) | (III / 3) $\hat{=}$ Overvoltage category III / Pollution degree 3 |

Ratings per UL 1977

Note for the US market

Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 5 A and voltages up to 600 V. For further information, please contact your local sales office.

| | |
|-------------------------|-------|
| Rated voltage (UL 1977) | 600 V |
| Rated current UL 1977 | 14 A |

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
 Hansastr. 27
 32423 Minden
 Phone: +49571 887-0 | Fax: +49571 887-169
 Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.

General information

| | |
|----------------------------|--|
| Note on contact resistance | approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket |
|----------------------------|--|

Connection data

| | |
|----------------------------|---|
| Total number of potentials | 2 |
| Number of levels | 1 |

Connection 1

| | |
|-------------|---|
| Pole number | 2 |
|-------------|---|

Physical data

| | |
|--------------------------------------|--------------------------|
| Pin spacing | 4.4 mm / 0.173 inches |
| Width | 10.4 mm / 0.41 inches |
| Height | 31.9 mm / 1.256 inches |
| Height from the surface | 28.4 mm / 1.118 inches |
| Depth | 12.2 mm / 0.48 inches |
| Solder pin length | 3.5 mm |
| Solder pin dimensions | 1 x 0.8 mm |
| Drilled hole diameter with tolerance | 1.3 ^(+0.1) mm |

Mechanical Data

| | |
|---|---|
| Application | Control technology |
| Coding | B |
| Variable coding | No |
| Marking | 2 1 |
| Potential marking | 2 1 |
| Mating force of a plug-in connection | approx. 20 ... 70 N (depending on pole number) |
| Retention force of a plug-in connection | Locked: > 80 N |
| Unmating force of a plug-in connection | Unlocked: approx. 20 ... 70 N (depending on pole number) |
| Number of mating cycles | 200, without resistive load 100, with resistive load $I_N = 16$ A, tested (1.5 mm ²) |

Subject to changes. Please also observe the further product documentation!



| | |
|--------|----------|
| Design | straight |
|--------|----------|

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type) | for PCB |
| Mismating protection | Yes |
| Note on mismating protection | All <i>WINSTA</i> [®] components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole |
| Mating direction to the PCB | 90 ° |
| Locking lever | yes |
| Locking of plug-in connection | locking lever |
| Note on locking system | All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug/socket). |

PCB contact

| | |
|-------------------------------------|----------------------------|
| PCB contact | THT |
| Solder pin arrangement | 2 in-line solder pins/pole |
| Number of solder pins per potential | 2 |

Material Data

| | |
|-----------------------------|--|
| Note (material data) | Information on material specifications can be found here |
| Color | gray |
| Cover color | gray |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Clamping spring material | Chrome-nickel spring steel (CrNi) |
| Contact material | Copper or copper alloy; surface-treated |
| Contact plating | Tin |
| Fire load | 0.057 MJ |

Subject to changes. Please also observe the further product documentation!



| | |
|--------|-------|
| Weight | 2.4 g |
|--------|-------|

Environmental requirements

| | |
|--|--|
| Processing temperature | -5 ... +40 °C |
| Continuous operating temperature | -35 ... +85 °C |
| Note on continuous operating temperature | Insulating parts for temperatures ≤ 105 °C |

Commercial data

| | |
|-----------------------|---------------|
| Product Group | 20 (Winsta) |
| eCl@ss 10.0 | 27-44-06-05 |
| eCl@ss 9.0 | 27-44-06-05 |
| ETIM 8.0 | EC002560 |
| ETIM 7.0 | EC002560 |
| PU (SPU) | 100 pcs |
| Packaging type | box |
| Country of origin | PL |
| GTIN | 4050821695837 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

| | |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|--|--------------------------|------------------|
| | CB DEKRA Certification B.V. | IEC 61984 | NL-64351 |
| | CB DEKRA Certification B.V. | EN 61984 | 71-112993 |
| | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |
| | KEMA/KEUR DEKRA Certification B.V. | EN 60320 | 2148952.04 |

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|------|-------------------------------------|--------------------------|------------------|
| | EU-Declaration of Conformity | - | - |

Subject to changes. Please also observe the further product documentation!



WAGO GmbH & Co. KG

UK-Declaration of Conformity
WAGO GmbH & Co. KG

-

-

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
| | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |
| | LR Lloyds Register | EN 61535 | 08/20047 (E2) |

Counterpart

| | |
|---|--|
| Item no.890-242 Socket; 2-pole; Cod. B; 1,50 mm ² ; gray | www.wago.com/890-242 |
| Item no.891-8992/005-105 pre-assembled interconnecting cable; Eca; Socket/plug; 2-pole; Cod. B; Control cable 2 x 1.0 mm ² ; 1 m; 1,00 mm ² ; light green | www.wago.com/891-8992/005-105 |
| Item no.891-8992/105-103 pre-assembled connecting cable; Eca; Socket/open-ended; 2-pole; Cod. B; Control cable 2 x 1.0 mm ² ; 1 m; 1,00 mm ² ; gray | www.wago.com/891-8992/105-103 |

Downloads**CAD/CAE-Data****PCB Design**

Symbol and Footprint 890-852

URL

Download

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000

—
Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.



- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

CAD data

| | | |
|----------------------|---------------------|--------------------------|
| 2D/3D Models 890-852 | URL | Download |
|----------------------|---------------------|--------------------------|

CAE data

| | | |
|----------------------|---------------------|--------------------------|
| ZUKEN Portal 890-852 | URL | Download |
|----------------------|---------------------|--------------------------|

Environmental Product Compliance

Compliance Search

| | | |
|---|---------------------|--------------------------|
| Environmental Product Compliance 890-852 Plug for PCBs; straight; 2-pole; Cod. B; gray | URL | Download |
|---|---------------------|--------------------------|

Installation Notes

Product family

WINSTA® MINI

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!