

## Data sheet | Item number: 232-362

THT male header for double-deck assembly; 1.0 x 1.0 mm solder pin; angled;

Pin spacing 5.08 mm; 2-pole



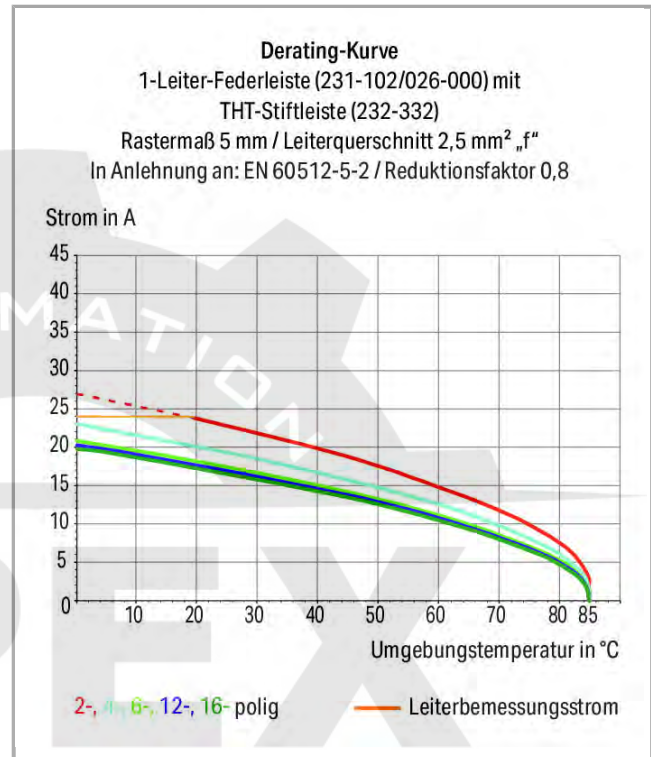
232-362

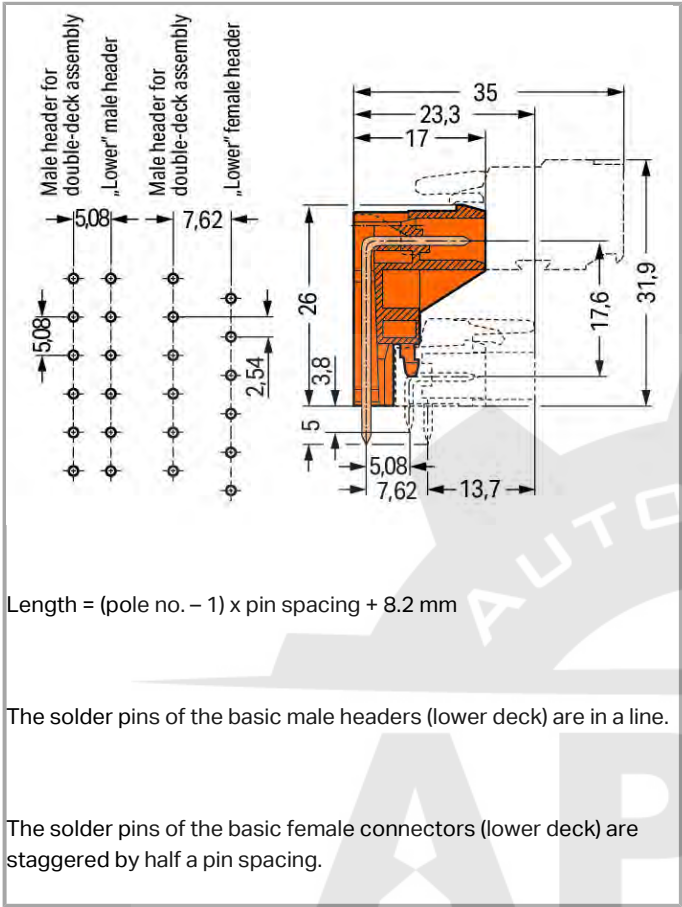


RoHS   
Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:





Item description

- Male headers for double-deck assembly provide high-density wiring for wire-to-board connections
- Horizontal PCB mounting
- Double-deck design allows male or female headers with angled solder pins to be placed on the lower deck
- With coding fingers

Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Data

Electrical data

Ratings per IEC/EN 60664-1

|                                 |       |
|---------------------------------|-------|
| Rated voltage (III / 3)         | 320 V |
| Rated impulse voltage (III / 3) | 4 kV  |
| Rated voltage (III / 2)         | 320 V |

|                                 |       |
|---------------------------------|-------|
| Rated impulse voltage (III / 2) | 4 kV  |
| Rated voltage (II / 2)          | 630 V |
| Rated impulse voltage (II / 2)  | 4 kV  |
| Rated current                   | 12 A  |

### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 10 A  |
| Rated voltage UL (Use Group D) | 300 V |
| Rated current UL (Use Group D) | 10 A  |

### Approvals per UL 1977

|                                                 |       |
|-------------------------------------------------|-------|
| Rated voltage per UL 1977 (factory wiring only) | 600 V |
| Rated current per UL 1977 (factory wiring only) | 10 A  |

### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 10 A  |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

### Connection data

|                            |   |
|----------------------------|---|
| No. of poles               | 2 |
| Total number of potentials | 2 |
| Number of connection types | 1 |
| Number of levels           | 1 |

### Geometrical Data

|                                   |                                |
|-----------------------------------|--------------------------------|
| Pin spacing                       | 5.08 mm / 0.2 inch             |
| Width                             | 13.36 mm / 0.526 inch          |
| Height                            | 31 mm / 1.22 inch              |
| Height from the surface           | 26 mm / 1.024 inch             |
| Depth                             | 17 mm / 0.669 inch             |
| Solder pin length                 | 5 mm                           |
| Solder pin dimensions             | 1 x 1 mm                       |
| Drilled hole diameter (tolerance) | 1.4 <sup>(- ... +0.1)</sup> mm |

### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
|------------------------------------|---------------------|



|                             |          |
|-----------------------------|----------|
| Connector connection type   | for PCBs |
| Mismating protection        | No       |
| Mating direction to the PCB | 0°       |

### PCB contact

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| PCB contact                         | THT                                     |
| Solder pin arrangement              | over the entire male connector, in line |
| Number of solder pins per potential | 1                                       |

### Material Data

|                             |                                        |
|-----------------------------|----------------------------------------|
| Color                       | orange                                 |
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.057 MJ                               |
| Weight                      | 2.576 g                                |

### Environmental Requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
|-------------------------|-----------------|

### Commercial data

|                    |                        |
|--------------------|------------------------|
| Product Group      | 3 (Multi Conn. System) |
| Country of origin  | PL                     |
| GTIN               | 4044918685535          |
| Customs Tariff No. | 85366990990            |

### Approvals / Certificates

#### Country specific Approvals

| Logo                                                                               | Approval                                     | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|------------------|
|                                                                                    | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-39756         |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 2190761.01       |

#### Ship Approvals

Certificate



| Logo                                                                             | Approval                                                | Additional Approval Text | name                     |
|----------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|--------------------------|
|  | <b>ABS</b><br>American Bureau of Shipping               | -                        | 14-<br>HG1241537-<br>PDA |
|  | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z               |

## UL-Approvals

| Logo                                                                             | Approval                                    | Additional Approval Text | Certificate name  |
|----------------------------------------------------------------------------------|---------------------------------------------|--------------------------|-------------------|
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172<br>sec. 18 |

## Compatible products

## Coding

|                                                                                    |                                                                                     |         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
|  | <b>Item no.: 231-129</b><br>Coding key; snap-on type                                | 231-129 |
|  | <b>Item no.: 231-160</b><br>Coding pin; for coding lower male headers; push-in type | 231-160 |

## Marking accessories

|                                                                                    |                                                                                      |         |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|
|  | <b>Item no.: 210-833</b><br>Marking strips; on reel; 6 mm wide; plain; Self-adhesive | 210-833 |
|  | <b>Item no.: 210-834</b><br>Marking strips; on reel; 5 mm wide; plain; Self-adhesive | 210-834 |

## Downloads

## CAD/CAE - Smart Data

## CAD data

|                     |     |          |
|---------------------|-----|----------|
| 3D Download 232-362 | URL | Download |
|---------------------|-----|----------|

## PCB libraries

|                                                                                                                                              |                    |               |          |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|----------|
| EAGLE Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM)<br>Compatible with EAGLE PCB Design Software Version 6.x or higher | 2.1<br>Oct 6, 2014 | zip<br>6.2 MB | Download |
| TARGET Library for WAGO Pluggable PCB Connectors (Multi-Connection System)                                                                   | 1.1.0              | zip           | Download |



|                                                                                 |                    |               |          |
|---------------------------------------------------------------------------------|--------------------|---------------|----------|
| Compatible with TARGET PCB Design Software Version 17.x                         | Oct 6, 2014        | 7.4 MB        |          |
| DesignSpark Library for WAGO Pluggable PCB Connectors (MULTI CONNECTION SYSTEM) | 2.1<br>Oct 6, 2014 | zip<br>6.1 MB | Download |
| Compatible with DesignSpark PCB Version 4.x or higher                           |                    |               |          |



Subject to changes.