

# HC-M-12-PT-M - Contact insert module



1424246

<https://www.phoenixcontact.com/us/products/1424246>

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Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Pin, Push-in connection, 250 V, 10 A, 0.14 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, application: Signal

## Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1424246       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF62          |
| Product key                          | AF7ACE        |
| GTIN                                 | 4055626369600 |
| Weight per piece (including packing) | 22 g          |
| Weight per piece (excluding packing) | 21 g          |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

### Mounting

|               |   |
|---------------|---|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required |
|---------------|---|

### Product properties

|                         |                        |
|-------------------------|------------------------|
| Product type            | Modular contact insert |
| Series                  | HC-M-12                |
| Application             | Signal                 |
| Number of positions     | 12                     |
| Connection profile      | 12                     |
| Contact numbering       | 1 - 12                 |
| Number of module slots  | 1                      |
| No. of power contacts   | 0                      |
| No. of control contacts | 12                     |
| Contact material type   | turned                 |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Connection data

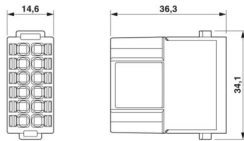
#### Connection technology

|                       |                    |
|-----------------------|--------------------|
| Connection technology | Push-in connection |
|-----------------------|--------------------|

#### Conductor connection

|   |  |
|---|--|
| Conductor cross-section                 | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection cross section AWG            | 26 ... 16                                    |
| Stripping length of the individual wire | 8 mm   |

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 34.1 mm  |
| Height              | 36.3 mm  |
| Length              | 14.6 mm  |

### Mechanical characteristics

|                  |        |
|------------------|--------|
| Contact diameter | 1.6 mm |
|------------------|--------|

### Electrical properties

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|                                |       |
|--------------------------------|-------|
| Rated voltage (III/2) contacts | 400 V |
| Rated voltage (III/3)          | 250 V |
| Rated surge voltage (III/2)    | 4 kV  |
| Rated surge voltage (III/3)    | 4 kV  |
| Rated surge voltage            | 4 kV  |
| Rated current                  | 10 A  |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

## Material specifications

|  |              |
|--|--------------|
| Flammability rating according to UL 94 | V0           |
| Contact material                       | Copper alloy |
| Contact surface material               | Ag           |
| Contact carrier material               | PC           |
| Standards/regulations                  | PC           |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
|---------------------------------|-------------------|

## Standards and regulations

### Testing

|                       |   |
|-----------------------|---|
| Standards/regulations | PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |
|-----------------------|---|

# HC-M-12-PT-M - Contact insert module

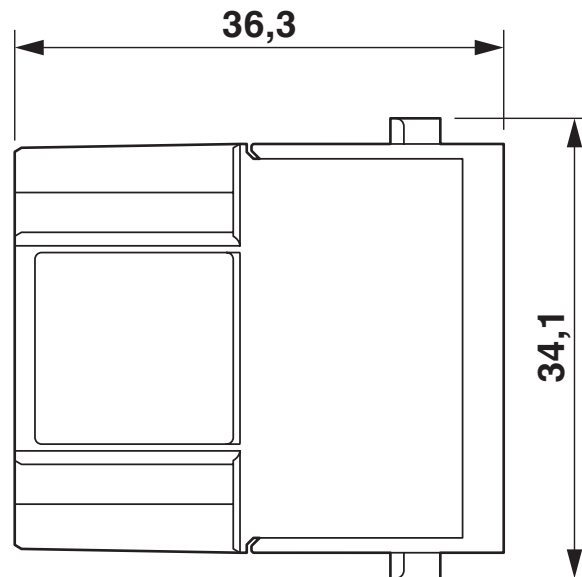
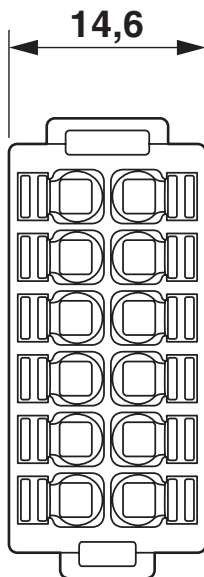


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## Drawings

Dimensional drawing



Dimensional drawing

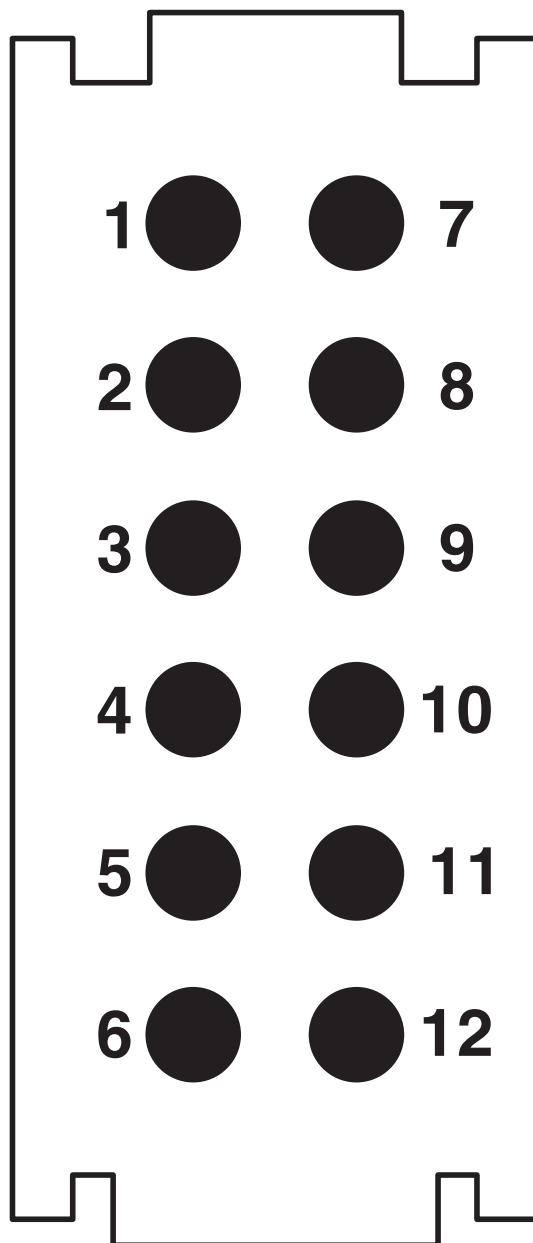
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Schematic diagram



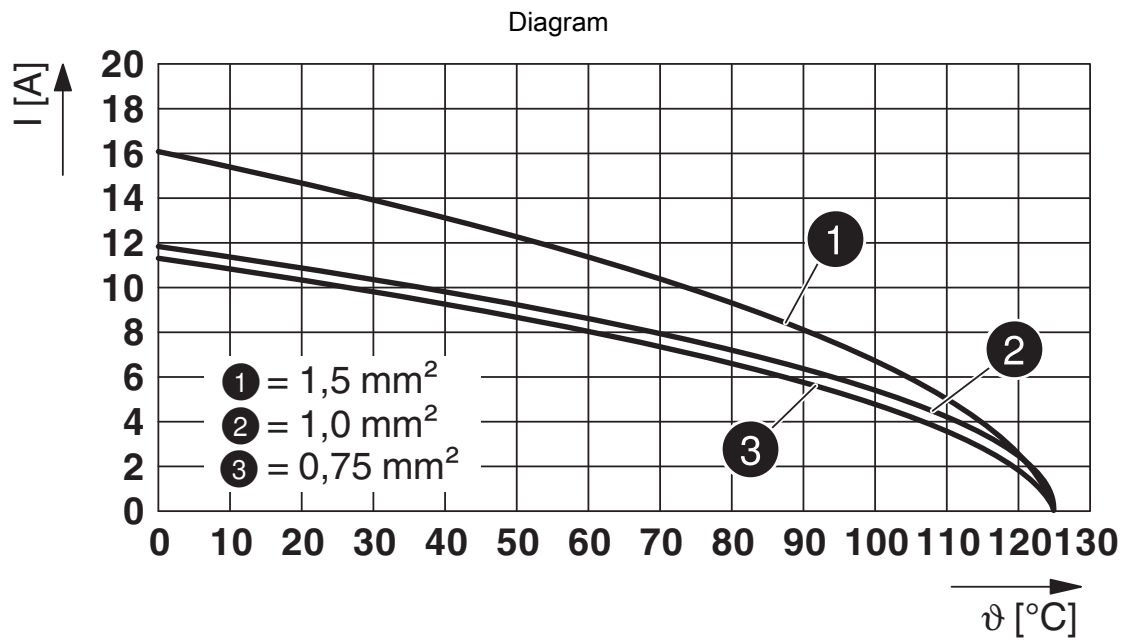
Connector pin assignment, connection side

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Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424246>

|  <b>UL Recognized</b><br>Approval ID: E118976 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 600 V                 | 10 A                  | - 16              | -                           |

|  <b>UL Recognized</b><br>Approval ID: E468743 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 600 V                 | 10 A                  | -                 | -                           |

|  <b>cUL Recognized</b><br>Approval ID: E468743 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 600 V                 | 10 A                  | - 16              | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440217 |
| ECLASS-15.0 | 27440217 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000438 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.088 kg CO2e |
|---------|---------------|

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