

# QPD W4X2,5 6-10 M25 DT GY - Panel feed-through



1424002

<https://www.phoenixcontact.com/nl/products/1424002>

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Panel feed-through, connection method: Push-in connection/ IDC connection, M25, Pin, 1 mm<sup>2</sup> .. 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, gray, with QUICKON nut, coding: coded, external cable diameter: 6 mm ... 10 mm, 2.5 mm<sup>2</sup>

## Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- Safer connection with mechanical coding to protect against mismatching, and touch-proof protection in accordance with DIN EN 0105
- Efficient - by using panel feed-throughs, devices no longer need to be opened in order to connect cables

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1424002       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AF6ABB        |
| Product key                          | AF6ABB        |
| GTIN                                 | 4055626366180 |
| Weight per piece (including packing) | 45,9 g        |
| Weight per piece (excluding packing) | 45,9 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                                    |            |
|------------------------------------|------------|
| Product family                     | QPD        |
| Type                               | QPD 4x2,5  |
| Number of positions                | 4          |
| Position marking                   | 1, 2, 3, 4 |
| Number of connections              | 10         |
| Number of connections per position | 1          |
| Coding                             | coded      |

### Insulation characteristics

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

### Connection data

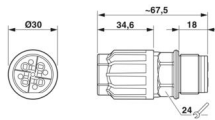
#### Connection technology

|                                                                       |                    |
|-----------------------------------------------------------------------|--------------------|
| Connection method On the device side                                  | Push-in connection |
| Connection method On the field side                                   | IDC connection     |
| Frequency of connections between conductors of the same cross section | max. 10            |
|                                                                       | 10                 |

#### Conductor connection

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Conductor cross-section flexibel | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section solid    | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection cross section AWG     | 16 ... 14                                 |
| Tightening torque Union nut      | 10 Nm                                     |
| Tightening torque Locking nut    | 5 Nm                                      |

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 30 mm                                                                                |
| Height              | 30 mm                                                                                |
| Length              | 67.5 mm                                                                              |
| Diameter            | 30 mm                                                                                |

### Electrical properties

|                             |      |
|-----------------------------|------|
| Rated surge voltage (II/2)  | 6 kV |
| Rated surge voltage (III/2) | 6 kV |
| Rated surge voltage (III/3) | 6 kV |

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|                       |          |
|-----------------------|----------|
| Rated current         | 20 A     |
| Contact resistance    | < 3 mΩ   |
| rated voltage (II/2)  | 1000 V   |
| rated voltage (III/2) | 690 V    |
| Rated voltage (III/3) | 690 V    |
| Nominal voltage $U_N$ | 690 V AC |
|                       | 690 V DC |
| Nominal current $I_N$ | 20 A     |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | max. 50 |
|-----------------------------|---------|

## Material specifications

|                                        |                       |
|----------------------------------------|-----------------------|
| Color                                  | light gray (RAL 7035) |
| Material Housing                       | PA                    |
| Material Contact                       | Cu                    |
| Material Contact surface               | silver-plated         |
| Material Seal                          | NBR                   |
| Flammability rating according to UL 94 | V0                    |
| Material wire insulation               | PVC/PE/TPE/rubber     |

## Cable/line

|                                                                             |                                    |
|-----------------------------------------------------------------------------|------------------------------------|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm |
| External cable diameter                                                     | 6 mm ... 10 mm                     |
| Wire diameter including insulation                                          | 2 mm ... 3.6 mm                    |
| Position marking                                                            | 1, 2, 3, 4                         |
| Cable cross section                                                         | 2.5 mm <sup>2</sup>                |
| Material wire insulation                                                    | PVC/PE/TPE/rubber                  |
| Halogen-free                                                                | yes                                |

## Mounting

|               |                    |
|---------------|--------------------|
| Mounting type | Front mounting M25 |
|---------------|--------------------|

## Environmental and real-life conditions

### Ambient conditions

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| Degree of protection                 | IP66                                   |
|                                      | IP68 (2 m / 24 h)                      |
|                                      | IP69K                                  |
|                                      | Touch-proof when not plugged in (IP2X) |
| Impact strength                      | IK07                                   |
| Ambient temperature (operation)      | -40 °C ... 100 °C                      |
| Temperature when conductor connected | -5 °C ... 50 °C                        |

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|                                         |
|-----------------------------------------|
| Ambient temperature (storage/transport) |
|-----------------------------------------|

|                   |
|-------------------|
| -40 °C ... 100 °C |
|-------------------|

# QPD W4X2,5 6-10 M25 DT GY - Panel feed-through

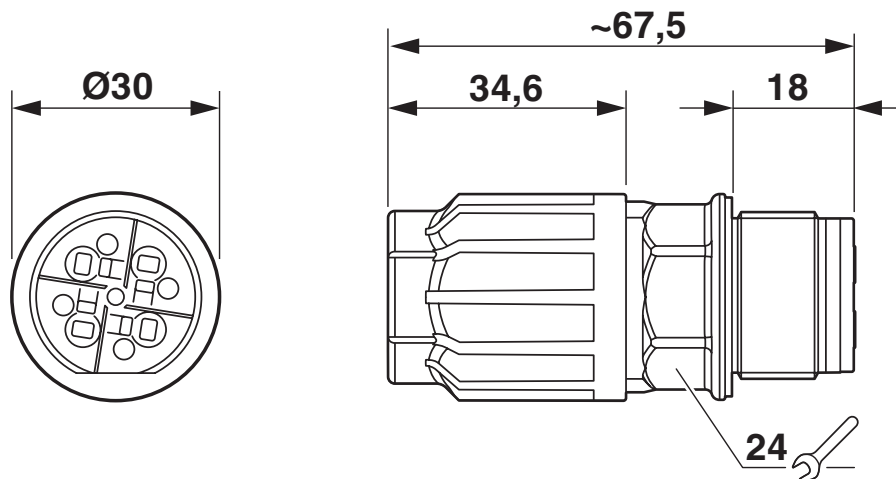


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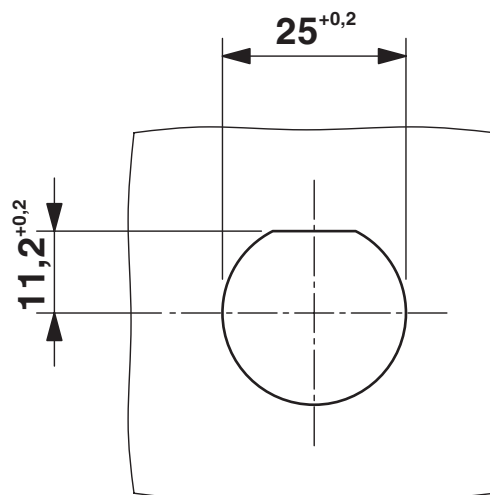
<https://www.phoenixcontact.com/nl/products/1424002>

## Drawings

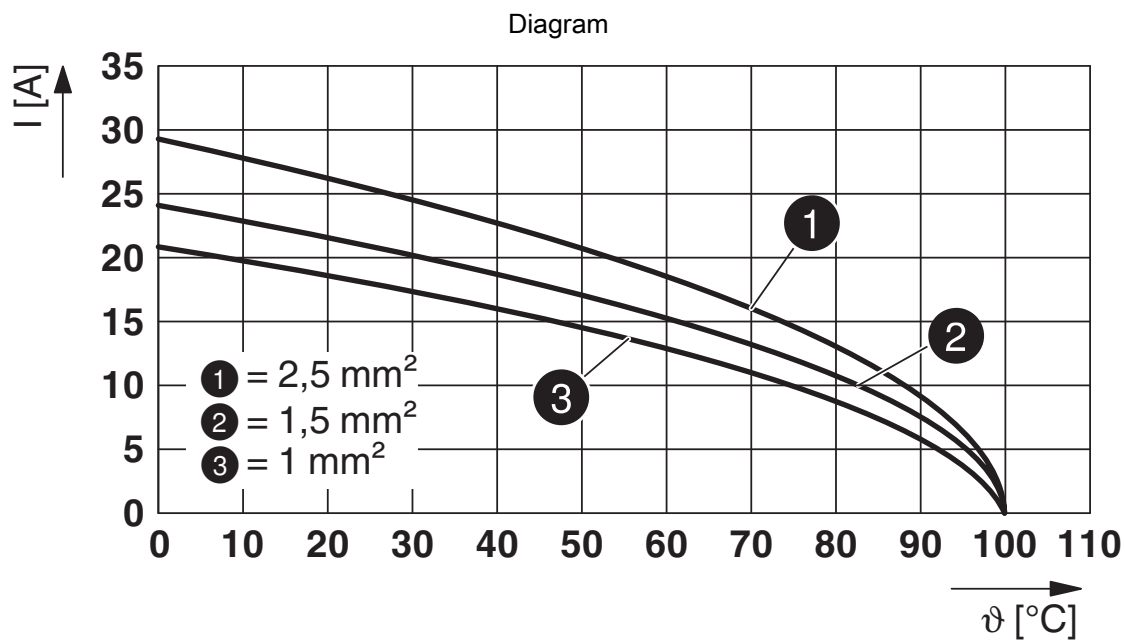
Dimensional drawing



Dimensional drawing



Panel cutout



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1424002>



### IECEE CB Scheme

Approval ID: DE1-65875



### VDE Zeichengenehmigung

Approval ID: 40029149

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| Only flexible conductors | 400 V                 | 20 A                  | -                 | 1.5 - 2.5                   |
| Only rigid conductors    | 690 V                 | 20 A                  | -                 | 1.5 - 2.5                   |



### UL Listed

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              | - 16                        |



### cUL Listed

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              | -                           |



### DNV GL

Approval ID: TAE00003J5

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440602 |
| ECLASS-15.0 | 27440602 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002566 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|

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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 | 0,626 kg CO2e |
|---------|---------------|

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