

# UM-D37SUB/M/HC3/DI24V/MR/SI/MT - Active module



2906944

<https://www.phoenixcontact.com/us/products/2906944>

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16-channel relay module for Honeywell C300 input modules. The module is controlled by the control system via 37-pos. D-SUB or 50-pos. FLK. A screw connection with knife disconnection is available in the field. Module width: 343 mm

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2906944                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK219H                         |
| GTIN                                 | 4055626141442                  |
| Weight per piece (including packing) | 1,093.6 g                      |
| Weight per piece (excluding packing) | 1,093.6 g                      |
| Customs tariff number                | 85371098                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|                 |                       |
|-----------------|-----------------------|
| Product type    | Interface module      |
| No. of channels | 16                    |
| Operating mode  | 100% operating factor |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Pollution degree     | 2  |

### Electrical properties

|                     |        |
|---------------------|--------|
| Rated surge voltage | 0.6 kV |
|---------------------|--------|

Supported controller: HONEYWELL Experion PKS C300/C-Series

|                   |                        |
|-------------------|------------------------|
| Suitable I/O card | TDIL01 (non-redundant) |
|                   | TDIL11 (redundant)     |

### Input data

|   |                             |
|---|-----------------------------|
| Nominal input voltage $U_N$               | 24 V DC                     |
| Input voltage range in reference to $U_N$ | 0.85 ... 1.1                |
| Input voltage range                       | 20.4 V DC ... 26.4 V DC     |
| Typical input current at $U_N$            | 6.5 mA                      |
| Typical response time                     | 5 ms                        |
| Typical release time                      | 7 ms                        |
| Protective circuit                        | Fuse                        |
|   | Freewheeling diode          |
|   | Reverse polarity protection |
| Status display/channel                    | Yellow LED                  |

### Output data

#### Switching

|                                       |  |
|---------------------------------------|--|
| Contact switching type                | 1 changeover contact                       |
| Type of switch contact                | Single contact                             |
| Contact material                      | Ag alloy, hard gold-plated                 |
| Maximum switching voltage             | 36 V DC                                    |
| Minimum switching voltage             | 100 mV (12 V DC with damaged gold coating) |
| Limiting continuous current           | 50 mA (500 mA with damaged gold coating)   |
| Min. switching current                | 1 mA (10 mA with damaged gold coating)     |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC)                         |

### Connection data

#### Controller level

|                   |                 |
|-------------------|-----------------|
| Connection method | D-SUB pin strip |
|-------------------|-----------------|

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|                       |    |
|-----------------------|----|
| Number of connections | 1  |
| Number of positions   | 37 |

## Controller level

|                       |                   |
|-----------------------|-------------------|
| Connection method     | IDC/FLK pin strip |
| Number of connections | 1                 |
| Number of positions   | 50                |
| Pitch                 | 2.54 mm           |

## Field level

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection with disconnect knife      |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 12                                   |

## Signaling

|                        |     |
|------------------------|-----|
| Status display present | yes |
|------------------------|-----|

## Dimensions

|        |          |
|--------|----------|
| Width  | 343.5 mm |
| Height | 125.5 mm |
| Depth  | 65.5 mm  |

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -15 °C ... 50 °C |
| Ambient temperature (storage/transport) | -15 °C ... 50 °C |

## Standards and regulations

|                       |                |
|-----------------------|----------------|
| Standards/regulations | EN IEC 60664-1 |
|-----------------------|----------------|

## Mounting

|                   |                           |
|-------------------|---------------------------|
| Mounting type     | DIN rail mounting         |
| Assembly note     | in rows with zero spacing |
| Mounting position | any                       |

## Notes

|                    |  |
|--------------------|--|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
|--------------------|--|

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906944>



**EAC**

Approval ID: RU\*DE.\*08.B.01536/19

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002780 |
|-----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes                |
| Exemption                               | 6(c), 7(a), 7(c)-I |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 9f8a7a02-2c26-423f-af4f-55765687a227 |

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