

# UM- D37SUB/M/HC3/16DO/MR/SI/Z - Active module



2900190

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16-channel relay module for Honeywell C300 output 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: 227 mm



## Commercial data

Item number	2900190
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK219H
GTIN	4046356495998
Weight per piece (including packing)	865.5 g
Weight per piece (excluding packing)	865 g
Customs tariff number	85371098
Country of origin	DE

## Technical data

### Product properties

Product type	Interface module
No. of channels	16
Mechanical service life	approx. $3 \times 10^7$ cycles

#### Insulation characteristics: Air clearances and creepage distances, input/output

Insulation	Reinforced insulation
Overshoot category	III
Pollution degree	2

#### Insulation characteristics: Air and creepage distances, output/output

Insulation	Basic insulation
Overshoot category	III
Pollution degree	2

### Electrical properties

#### Air clearances and creepage distances, input/output

Rated insulation voltage	300 V
Rated surge voltage	6 kV (1.2/50 $\mu$ s)

#### Air and creepage distances, output/output

Rated insulation voltage	300 V
Rated surge voltage	4 kV (1.2/50 $\mu$ s)

#### Supported controller HONEYWELL Experion PKS C300/C-Series

Suitable I/O card	TDOB01 (non-redundant)
	TDOB11 (redundant)

### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.9 ... 1.1
Input voltage range	21.6 V DC ... 26.4 V DC
Typical input current at $U_N$	16.7 mA
Typical response time	7 ms
Typical release time	3 ms
Protective circuit	Freewheeling diode
Status display/channel	Yellow LED

### Output data

#### Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact

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Contact material	AgNi
Maximum switching voltage	250 V AC
	63 V DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	2.2 A (50 °C)
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	91 W (24 V DC)
	58 W (48 V DC)
	48 W (60 V DC)

## Connection data

### Controller level

Connection method	D-SUB pin strip
Number of connections	1
Number of positions	37

### Controller level

Connection method	Flat-ribbon cable connector in acc. with IEC 60603-13
Number of connections	1
Number of positions	50

### Field level

Connection method	Spring-cage connection
Stripping length	8 mm
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
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## Dimensions

Width	240 mm
Height	127.5 mm
Depth	57 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	≤ 2000 m

## Standards and regulations

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Air clearances and creepage distances, input/output

Standards/regulations	EN 61010-2-201
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Air and creepage distances, output/output

Standards/regulations	EN 61010-2-201
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## Mounting

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

## Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	No additional touch protection is required when using a SELV/PELV voltage ( $\leq 30$ V AC or 60 V DC).
Notes on operation	The outputs are not suitable for switching different line conductors. The sum of the switching voltages used for adjacent outputs must not exceed the rated insulation voltage value
Notes on operation	Against adjacent modules in the support rail direction at least one functional insulation on the output-side is complied with. If the application has higher requirements on the insulation (basic insulation or reinforced insulation), then these must be realized through suitable measures (e. g. partition plates).
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.

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2900190>



**EAC**

Approval ID: RU\*DE\*08.B.01841/19

## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 9.0	EC002780
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### 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)

### 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	4f69cf2d-01a5-4ba2-ba48-7fcfda514857

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