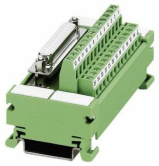
Phoenix Contact 2962748 UM 45-D25SUB-B Interface Module



Phoenix Contact 2962748 UM 45-D25SUB-B Interface Module Owner's Manual

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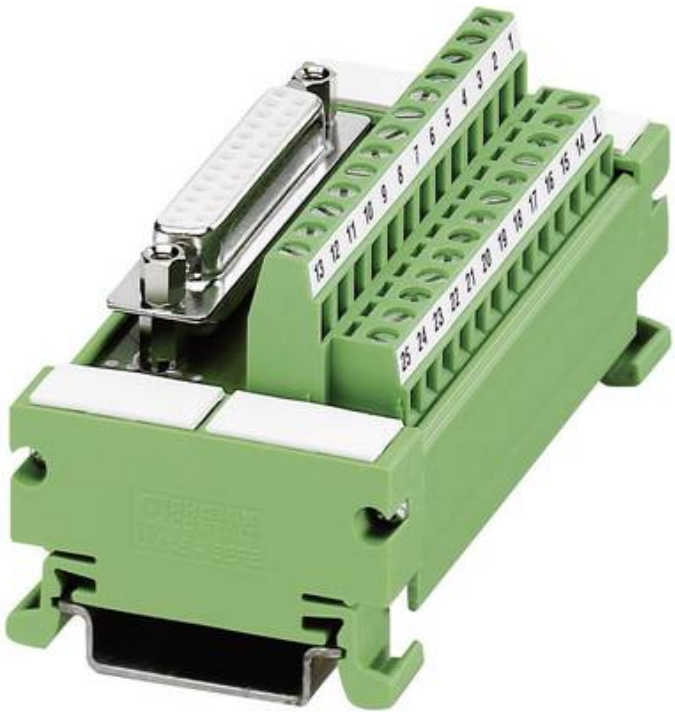


Product Information

Specifications

- **Product Type:** Interface Module
- **Number of Positions:** 25
- **Number of Channels:** 16
- **Insulation Characteristics:** Functional Insulation II 2
- **Operating Voltage (AC):** 30 V
- **Operating Voltage (DC):** 60 V
- **Current (per branch):** 2.5 A
- **Current (Total current):** 62.5 A
- **Rated Insulation Voltage:** 125 V
- **Rated Surge Voltage:** 1.2 kV (1.2/50 s)
- **Connection Method:** Screw Thread
- **Number of Connections:** 1
- **Material:** PVC
- **Dimensions:** 90 mm x 45 mm x 43.12 mm
- **Degree of Protection (Module):** IP20
- **Degree of Protection (Installation location):** Any
- **Ambient Temperature (Operation):** Not specified

Product Usage Instructions

Installation

1. Mount the VARIOFACE module on NS 35/7.5 rail using the provided screw connection.
2. Ensure the D-subminiature socket strip is securely assembled onto the module.

Connection

Control Level:

- Connection by standard IEC 60807-2.
- Use a UNC 4-40 screw thread for connection.
- There is one connection point with 25 positions available.

Field Level:

- The connection method involves stripping the wire to a length of 2.77 mm before connecting.
- The conductor cross-section for rigid and flexible wires should be compatible with the module specifications.

Signalling
No status display is present on this module.

Maintenance
Avoid exposing the module to extreme temperatures, moisture, or contaminants to ensure proper functionality.

FAQ

Q: What is the maximum operating voltage for this interface module?

A: The maximum operating voltage for this module is 60 V DC.

Q: Can I mount this module in any position?

A: Yes, the module supports DIN rail mounting in any position.

Q: Does this module come with a status display feature?

A: No, this module does not have a status display feature.

Please be informed that the data shown in this PDF document is generated from our online catalogue. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

VARIOFACE module, with screw connection and D-subminiature socket strip, for assembly on NS 35/7.5, 25 positions

Commercial data

Item number	2962748
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C422
Product Key	CK2223
Catalog page	Page 250 (IF-2007)
GTIN	4017918107376
Weight per piece (including packing)	105.033 g
Weight per piece (excluding packing)	107 g
Customs tariff number	85369010
Country of origin	DE

Technical Data

Product properties

Product Type	Interface module
Number of positions	25
No. of channels	16

Insulation characteristics

Insulation	Functional insulation

Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

No. of channels	16 ((with analog variable))
Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Current (per branch)	≤ 2.5 A
Current (Total current)	≤ 62.5 A

Air clearances and creepage distances

Rated insulation voltage	125 V
Rated surge voltage	1.2 kV (1.2/50 µs)

Supported controller ABB S800 I/O

Suitable I/O card

- DI810
- DI811
- DI814
- DI818
- DI830
- DI831
- DI840
- DI885
- DO810
- DO814
- DO818
- DO840
- DP820
- AI810
- AI820
- AI830
- AI835
- AI845
- AO810
- AO820

Connection data

Connection 1 (control level)

Connection in acc. with standard	IEC 60807-2
Connection method	D-SUB socket strip
Screw thread	UNC 4-40
Number of connections	1
Number of positions	25
Insertion/withdrawal cycles	> 500
Pitch	2.77 mm

Connection 2 (field level)

Connection method	Screw connection
Stripping length	6 mm
Screw thread	M3
Number of positions	26
Conductor cross-section rigid	0.14 mm²…. 1.5 mm²
Conductor cross-section flexible	0.14 mm²…. 1.5 mm²
Conductor cross-section AWG	26 … 16

Signaling

Status display	No
Status display present	No

Dimensions

Item Dimensions

Width	90 mm
Height	45 mm
Depth	43.12 mm

Material specifications

Housing insulation material	PVC

Environmental and real-life conditions

Ambient conditions

Degree of protection (Module)	IP20
Degree of protection (Installation location)	≥ IP54
Ambient temperature (operation)	-20 °C … 50 °C
Ambient temperature (storage/transport)	-20 °C … 70 °C
Altitude	≤ 2000 m

UKCA

Certificate	UKCA-compliant

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1

Mounting

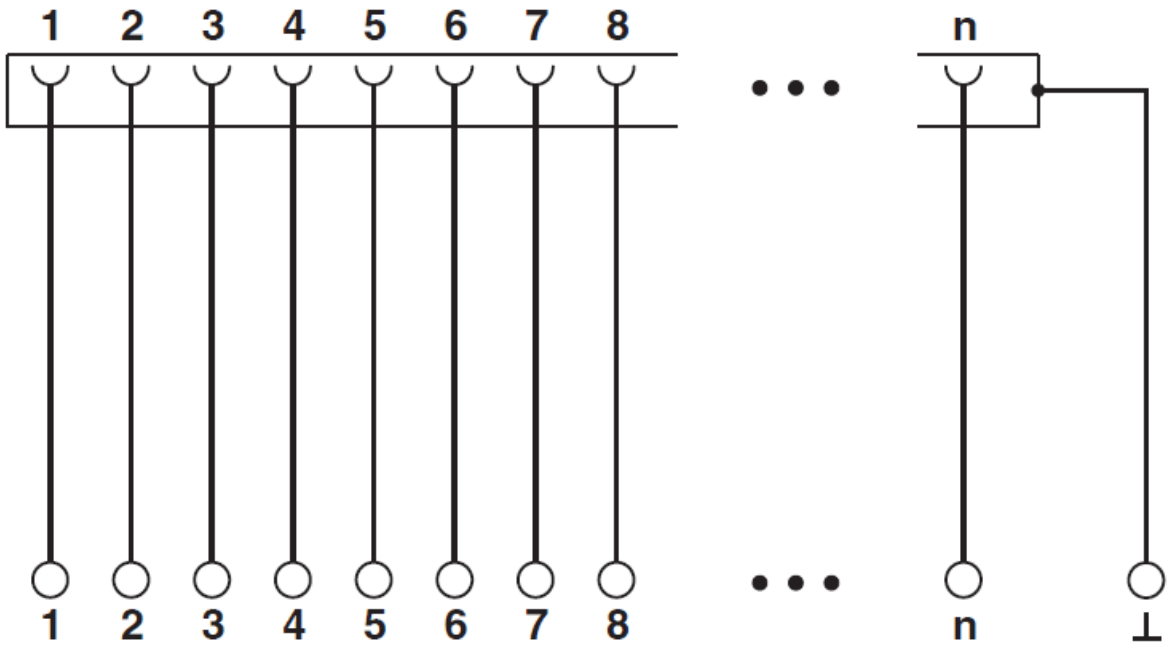
Mounting type	DIN rail mounting
Mounting position	any

Notes

General	For proper use, the specifications of the installation dir ective (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.

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2962748.

cUL Recognized
Approval ID: FILE E 118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Field wiring	125 V	2.5 A	30 - 14	-

UL Recognized
Approval ID: FILE E 118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Field wiring	125 V	2.5 A	30 - 14	-

cULus Recognized

Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

ETIM

ETIM 8.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads”

Accessories

CABLE D-SUB-S/…/…/… – Cable
2302340

https://www.phoenixcontact.com/us/products/2302340.

Shielded round cable, assembled with one D-SUB female and pin strip (9-, 15-, 25-, 37-, or 50-pos.), variable cable length

CABLE D-SUB-S-S-S/…/…/… – Cable

2302434
https://www.phoenixcontact.com/us/products/2302434.

Shielded round cable, assembled with two D-SUB pin strips (9-, 15-, 25-, 37-, or 50-pos.), variable cable length

CABLE-D25SUB/B/S/ 50/KONFEK/S – Cable

2302120
https://www.phoenixcontact.com/us/products/2302120

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 0.5 m

CABLE-D25SUB/B/S/100/KONFEK/S – Cable

2302133
https://www.phoenixcontact.com/us/products/2302133

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 1 m

CABLE-D25SUB/B/S/150/KONFEK/S – Cable

2302146
https://www.phoenixcontact.com/us/products/2302146

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 1.5 m

CABLE-D25SUB/B/S/200/KONFEK/S – Cable

2302159
https://www.phoenixcontact.com/us/products/2302159

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 2 m

CABLE-D25SUB/B/S/300/KONFEK/S – Cable

2302162
https://www.phoenixcontact.com/us/products/2302162

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 3 m

CABLE-D25SUB/B/S/400/KONFEK/S – Cable

2302175
https://www.phoenixcontact.com/us/products/2302175

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 4 m

CABLE-D25SUB/B/S/600/KONFEK/S – Cable

2302188
https://www.phoenixcontact.com/us/products/2302188

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 6 m

CABLE-D25SUB/B/S/HF/S/ 1,0M – Cable

1066665
https://www.phoenixcontact.com/us/products/1066665

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 1 m

CABLE-D25SUB/B/S/HF/S/ 2,0M – Cable

1066666
https://www.phoenixcontact.com/us/products/1066666

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 2 m

CABLE-D25SUB/B/S/HF/S/ 3,0M – Cable

1066667
https://www.phoenixcontact.com/us/products/1066667

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: 3 m

CABLE-D25SUB-B-S-HF-S/… – Cable

1075559
https://www.phoenixcontact.com/us/products/1075559

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 25-position); connection 2: D-SUB pin strip (1x 25-position); cable length: variable

CABLE-D-25SUB/M/OE/0,25/S/0,5M – Cable

2926506
https://www.phoenixcontact.com/us/products/2926506

Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 25-position); cable length: 0.5 m

CABLE-D-25SUB/M/OE/0,25/S/1,0M – Cable

2926519
https://www.phoenixcontact.com/us/products/2926519

Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 25-position); cable length: 1 m

CABLE-D-25SUB/M/OE/0,25/S/1,5M – Cable

2926522
https://www.phoenixcontact.com/us/products/2926522

Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 25-position); cable length: 1.5 m

CABLE-D-25SUB/M/OE/0,25/S/2,0M – Cable

2926535
https://www.phoenixcontact.com/us/products/2926535

Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 25-position); cable length: 2 m

CABLE-D-25SUB/M/OE/0,25/S/3,0M – Cable

2926548
https://www.phoenixcontact.com/us/products/2926548

Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 25-position); cable length: 3 m

CABLE-D-25SUB/M/OE/0,25/S/4,0M – Cable

2926551
https://www.phoenixcontact.com/us/products/2926551

Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 25-position); cable length: 4 m

CABLE-D-25SUB/M/OE/0,25/S/6,0M – Cable

2926564
https://www.phoenixcontact.com/us/products/2926564

Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 25-position); cable length: 6 m

CABLE-D-25SUB-M-OE-0,25-S/… – Cable

2900911
https://www.phoenixcontact.com/us/products/2900911

Assembled shielded round cable; connection 1: Single wires (25-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB pin strip (1x 25-position); cable length: variable

Contact Information

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Phoenix Contact USA

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Documents / Resources

	Phoenix Contact 2962748 UM 45-D25SUB-B Interface Module [pdf] Owner's Manual UM 45-D25SUB-B, 2962748 UM 45-D25SUB-B Interface Module, 2962748, UM 45-D25SUB-B Interface Module, Interface Module, Module

References

- CABLE-D25SUB/B/S/HF/S/ 1,0M - Cable - 1066665 | Phoenix Contact
- CABLE-D25SUB/B/S/HF/S/ 2,0M - Cable - 1066666 | Phoenix Contact
- CABLE-D25SUB/B/S/HF/S/ 3,0M - Cable - 1066667 | Phoenix Contact
- CABLE-D25SUB-B-S-HF-S/... - Cable - 1075559 | Phoenix Contact
- CABLE-D25SUB/B/S/150/KONFEK/S - Cable - 2302146 | Phoenix Contact
- CABLE-D25SUB/B/S/200/KONFEK/S - Cable - 2302159 | Phoenix Contact
- CABLE-D25SUB/B/S/300/KONFEK/S - Cable - 2302162 | Phoenix Contact
- CABLE-D25SUB/B/S/400/KONFEK/S - Cable - 2302175 | Phoenix Contact
- CABLE-D25SUB/B/S/600/KONFEK/S - Cable - 2302188 | Phoenix Contact
- CABLE D-SUB-S/.../.../... - Cable - 2302340 | Phoenix Contact
- CABLE D-SUB-S-S-S/.../.../... - Cable - 2302434 | Phoenix Contact
- CABLE-D-25SUB-M-OE-0,25-S/... - Cable - 2900911 | Phoenix Contact
- CABLE-D-25SUB/M/OE/0,25/S/0,5M - Cable - 2926506 | Phoenix Contact
- CABLE-D-25SUB/M/OE/0,25/S/1,0M - Cable - 2926519 | Phoenix Contact
- CABLE-D-25SUB/M/OE/0,25/S/1,5M - Cable - 2926522 | Phoenix Contact
- CABLE-D-25SUB/M/OE/0,25/S/3,0M - Cable - 2926548 | Phoenix Contact
- CABLE-D-25SUB/M/OE/0,25/S/4,0M - Cable - 2926551 | Phoenix Contact
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