TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

PHŒNIX CONTACT

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

Universal termination carrier for connecting 16 MACX Analog Ex i signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection), with HART multiplexer connection

Your advantages

- Mechanically decoupled, passive PCB
- Robust aluminum profile with integrated DIN rail
- Side parts with integrated end clamps
- D-SUB pin strip system connection, 37-pos. (1:1 connection)
- Simple or redundant supply (decoupled from diode, protected against polarity reversal) and monitoring function implemented via separate DIN rail module
- Interface for connection to HART multiplexer
- Cable sets for signal connection are supplied as standard and do not have to be ordered separately

Commercial data

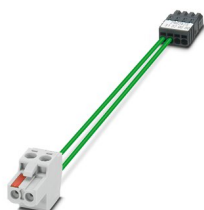| Item number	2902932
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C420
Product key	CK271W
Catalog page	Page 171 (C-5-2019)
GTIN	4046356697989
Weight per piece (including packing)	1,386.4 g
Weight per piece (excluding packing)	444.44 g
Customs tariff number	85366990
Country of origin	DE

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

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Set consists of

TC-C-MAX2-SC-31320000 - Cable set

2902425

https://www.phoenixcontact.com/us/products/2902425

Cable set for signal transmission on the Termination Carrier for modules from the MACX Analog Ex series. Connection of terminal points 3.1 and 3.2 (signal transmission) to the signal PCB.

TC-C-PTB3-SC-SET1 - Cable set

2905216

https://www.phoenixcontact.com/us/products/2905216

Cable set for TC-MACX-MCR-PTB power and fault signaling module (Item No. 2904673), for use on the Termination Carrier for signal conditioners from the MACX Analog Ex series.
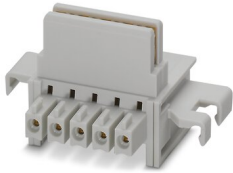
TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

ME 17,5 TBUS 1,5/ 5-ST-3,81 GY - DIN rail bus connectors

1090049

https://www.phoenixcontact.com/us/products/1090049

DIN rail connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

ME 6,2 TBUS-2 1,5/5-ST-3,81 GY - DIN rail bus connectors

2695439

https://www.phoenixcontact.com/us/products/2695439

DIN rail connector (TBUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rail in accordance with EN 60715

Technical data

Notes

General	2318457 VIP-CAB-FLK14-0,14/... : < 3 m
General	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.

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Module carrier

Insulation characteristics

Insulation	Basic insulation

Insulation characteristics: Air clearances and creepage distances

Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Max. permissible current	23 mA (Signal/channel)
Nominal voltage U_N	< 30 V DC (Per signal/channel)

Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV

Supported controller universal

Suitable I/O card	universal

Supply

Designation	Power module
Note	Power supply via 2904673 TC-MACX-MCR-PTB power supply and error signaling module.
Fuse	2x 2.5 A on PCB, slow-blow (replaceable)
Input voltage	24 V DC
Input voltage range	19.2 V DC ... 30 V DC
Input current	≤ 2 A
Redundant supply	yes, decoupled from diodes
Polarization and surge protection	Yes
Output name	Switching output
Contact switching type	1 N/C contact (alarm = open)

Maximum switching voltage	50 V DC (0.3 A)
	30 V DC (2 A)
	33 V AC (2 A)

Connection data

Power supply

Connection method	Screw connection
Stripping length	7 mm
Number of connections	1
Number of positions	6
Conductor cross section rigid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Controller level

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

X11

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	14
Note	For connecting 16 HART devices to HART multiplexers

X12

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	14
Note	For connecting a second TC-D37SUB-AIO16-EX-PS-UNI (additional 16 HART channels)

Signaling

Status display	1 x red LED (error)
	2x green LEDs (PWR1 and PWR2)

Dimensions

Width	242 mm
Height	170 mm
Depth	159.5 mm

Material specifications

Flammability rating according to UL 94	V0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Ambient temperature (operation)	-20 °C ... 60 °C (Please observe module specifications)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Shock	15g, according to IEC□60068-2-27
Vibration (operation)	2g, according to IEC 60068-2-6

Approvals

ATEX

Identification	⟨Ex⟩ II 3 G Ex nA IIC T4 Gc X

UKCA Ex (UKEX)

Identification	⟨Ex⟩ II 3 G Ex nA IIC T4 Gc
Certificate	PxCIF21UKEX2924854X

UL, USA/Canada

Identification	UL 61010 Listed
	Class I, Div. 2, Groups A, B, C, D T4
	Class I, Zone 2, Group IIC

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN 60664-1

Mounting

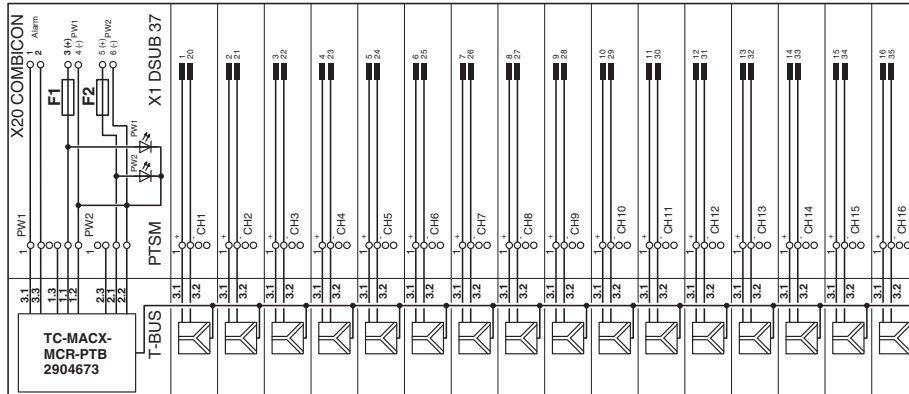|	
Mounting type	DIN rail mounting
Assembly instructions	No end clamp
Mounting position	vertical, horizontal

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

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https://www.phoenixcontact.com/us/products/2902932

Drawings

Circuit diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2902932

UL Listed
Approval ID: FILE E 330267

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

cUL Listed
Approval ID: FILE E 330267

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

cUL Listed
Approval ID: FILE E 199827

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

UL Listed
Approval ID: FILE E 199827

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

cULus Listed

cULus Listed

Classifications

ECLASS

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

ETIM

ETIM 9.0	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"

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

Mandatory accessories

TC-MACX-MCR-PTB - Power and error message module

2904673

https://www.phoenixcontact.com/us/products/2904673

Power and fault signaling module with screw connection, only for use on the Termination Carrier, excluding corresponding DIN rail bus connector

MACX MCR-EX-SL-RPSSI-I - Power/input isolating amplifier

2865340

https://www.phoenixcontact.com/us/products/2865340

Ex i repeater power supply and input signal conditioner, HART-transparent. Transmits supplied or active 0/4 … 20 mA signals from the Ex area to a load (active or passive) in the safe area. 3-way electrical isolation, SIL 2 in accordance with IEC 61508, with screw connection

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

MACX MCR-EX-SL-RPSSI-I-SP - Power/input isolating amplifier

2924016

https://www.phoenixcontact.com/us/products/2924016

Ex i repeater power supply and input signal conditioner, HART-transparent. Transmits supplied or active 0/4 … 20 mA signals from the Ex area to a load (active or passive) in the safe area. 3-way electrical isolation, SIL 2 in accordance with IEC 61508, with Push-in connection

MACX MCR-EX-IDS-I-I - Output signal conditioner

2908060

https://www.phoenixcontact.com/us/products/2908060

Ex i output signal conditioner, HART-transparent. Isolates and transmits 0/4 mA … 20 mA signals with intrinsic safety to a load in the Ex area. 3-way electrical isolation, line fault detection (can be switched off via DIP switch), SIL 2 (SC3) in accordance with IEC 61508, screw connection.

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

MACX MCR-EX-IDS-I-I-SP - Output signal conditioner

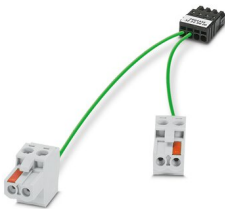2908062

https://www.phoenixcontact.com/us/products/2908062

Ex i output signal conditioner, HART-transparent. Isolates and transmits 0/4 mA … 20 mA signals with intrinsic safety to a load in the Ex area. 3-way electrical isolation, line fault detection (can be switched off via DIP switch), SIL 2 (SC3) in accordance with IEC 61508, Push-in connection.

TC-C-MAX2-SC-32220000 - Cable set

2904446

https://www.phoenixcontact.com/us/products/2904446

Cable set for signal transmission and power supply on the Termination Carrier for signal conditioners from the MACX Analog Ex series. Connection of terminal points 3.2 and 2.2 (signal transmission for active input cards) to the signal PCB.

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

MACX MCR-EX-DUMMY-ISOLATOR - Dummy

2904970

https://www.phoenixcontact.com/us/products/2904970

Dummy module with no function for connecting unused intrinsically safe signal cables, with plug-in screw connection terminal blocks.

MACX MCR-EX-DUMMY-ISOLATOR-SP - Dummy

2905846

https://www.phoenixcontact.com/us/products/2905846

Dummy module with no function for connecting unused intrinsically safe signal cables, with plug-in push-in connection terminal blocks.

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D37SUB/B/B/ 100/KONFEK/S - Cable

2305509

https://www.phoenixcontact.com/us/products/2305509

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 1 m

CABLE-D37SUB/B/B/ 200/KONFEK/S - Cable

2305512

https://www.phoenixcontact.com/us/products/2305512

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 2 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

CABLE-D37SUB/B/B/ 300/KONFEK/S - Cable

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 3 m

CABLE-D37SUB/B/B/ 400/KONFEK/S - Cable

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 4 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D37SUB/B/B/ 600/KONFEK/S - Cable

2900760

https://www.phoenixcontact.com/us/products/2900760

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 6 m

CABLE-D37SUB/B/B/ 800/KONFEK/S - Cable

2900761

https://www.phoenixcontact.com/us/products/2900761

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 8 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D37SUB/B/B/1000/KONFEK/S - Cable

2900762

https://www.phoenixcontact.com/us/products/2900762

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 10 m

CABLE-D37SUB/B/B/1500/KONFEK/S - Cable

2900763

https://www.phoenixcontact.com/us/products/2900763

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 15 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D37SUB/B/B/2000/KONFEK/S - Cable

2900764

https://www.phoenixcontact.com/us/products/2900764

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 20 m

CABLE-D37SUB/B/B/2500/KONFEK/S - Cable

2902074

https://www.phoenixcontact.com/us/products/2902074

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 25 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D37SUB/B/B/3000/KONFEK/S - Cable

2902075

https://www.phoenixcontact.com/us/products/2902075

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 30 m

CABLE-D37SUB/B/B/3500/KONFEK/S - Cable

2902076

https://www.phoenixcontact.com/us/products/2902076

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 35 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D37SUB/B/B/4000/KONFEK/S - Cable

2902077

https://www.phoenixcontact.com/us/products/2902077

Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 40 m

CABLE-D37SUB/B/B/HF/S/ 1,0M - Cable

2908516

https://www.phoenixcontact.com/us/products/2908516

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 1 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D37SUB/B/B/HF/S/ 2,0M - Cable

2908517

https://www.phoenixcontact.com/us/products/2908517

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 2 m

CABLE-D37SUB/B/B/HF/S/ 3,0M - Cable

2908518

https://www.phoenixcontact.com/us/products/2908518

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 3 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

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CABLE-D37SUB/B/B/HF/S/10,0M - Cable

2908522

https://www.phoenixcontact.com/us/products/2908522

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 10 m

CABLE-D37SUB/B/B/HF/S/15,0M - Cable

2908523

https://www.phoenixcontact.com/us/products/2908523

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 15 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

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CABLE-D37SUB/B/B/HF/S/20,0M - Cable

2908525

https://www.phoenixcontact.com/us/products/2908525

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 20 m

CABLE-D37SUB/B/B/HF/S/25,0M - Cable

2908526

https://www.phoenixcontact.com/us/products/2908526

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 25 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

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CABLE-D37SUB-B-B-HF-S/... - Cable

1075563

https://www.phoenixcontact.com/us/products/1075563

Assembled, shielded, halogen-free round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: variable

CABLE-D-37SUB/F/OE/0,25/S/0,5M - Cable

2926221

https://www.phoenixcontact.com/us/products/2926221

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 0.5 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D-37SUB/F/OE/0,25/S/1,0M - Cable

2926234

https://www.phoenixcontact.com/us/products/2926234

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 1 m

CABLE-D-37SUB/F/OE/0,25/S/1,5M - Cable

2926247

https://www.phoenixcontact.com/us/products/2926247

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 1.5 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

CABLE-D-37SUB/F/OE/0,25/S/2,0M - Cable

2926250

https://www.phoenixcontact.com/us/products/2926250

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 2 m

CABLE-D-37SUB/F/OE/0,25/S/3,0M - Cable

2926263

https://www.phoenixcontact.com/us/products/2926263

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 3 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

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CABLE-D-37SUB/F/OE/0,25/S/4,0M - Cable

2926276

https://www.phoenixcontact.com/us/products/2926276

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 4 m

CABLE-D-37SUB/F/OE/0,25/S/6,0M - Cable

2926289

https://www.phoenixcontact.com/us/products/2926289

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 6 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

CABLE-D-37SUB/F/OE/0,25/S/10M - Cable

2906217

https://www.phoenixcontact.com/us/products/2906217

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 10 m

CABLE-D-37SUB/F/OE/0,25/S/15M - Cable

2906218

https://www.phoenixcontact.com/us/products/2906218

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 15 m

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

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CABLE-D-37SUB/F/OE/0,25/S/20M - Cable

2906219

https://www.phoenixcontact.com/us/products/2906219

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 20 m

CABLE-D-37SUB-F-OE-0,25-S/... - Cable

2900907

https://www.phoenixcontact.com/us/products/2900907

Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: variable

Accessories

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

EMLF (108XE)R - Label, highly flexible

0800549

https://www.phoenixcontact.com/us/products/0800549

Label, highly flexible, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 108 x 48000 mm, Number of individual labels: 1

ZBF 15:UNBEDRUCKT - Zack Marker strip, flat

0811202

https://www.phoenixcontact.com/us/products/0811202

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 15 mm, lettering field size: 15 x 5.2 mm, Number of individual labels: 5

TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

MACX MCR-S-MUX - HART multiplexer

2865599

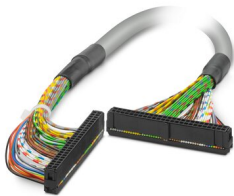https://www.phoenixcontact.com/us/products/2865599

HART Multiplexer for online configuration and diagnostics of HART-compatible field devices, as well as for continuous documentation of process variables and states with a PC or management system for mounting on NS 35/7.5 or NS 32

FLK EZ-DR.../.../... - Cable

2295059

https://www.phoenixcontact.com/us/products/2295059

Round cable, with preassembly, not shielded, variable cable length

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com