

1642199

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Termination Carrier for **eight** two-channel MACX Ex i NAMUR signal conditioners for connection to the Siemens SIMATIC ET 200SP HA, digital input module, DI 16X24VDC HA (6DL1131-6BH00-0PH1)

Commercial data

Item number	1642199
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK271B
GTIN	4067923169746
Country of origin	DE

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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Set consists of

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

2905216

<https://www.phoenixcontact.com/in/products/2905216>

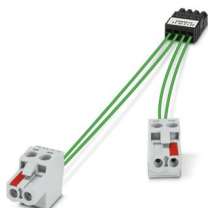


Cable set for TC-MACX-MCR-PTB power and fault signaling module (Item No. 2904673), for use on the Termination Carrier for signal conditioners from the MACX Analog Ex series.

TC-C-MAX2-SC-31322122 - Cable set

2904674

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Cable set for signal transmission on the Termination Carrier for two-channel modules or modules with double output from the MACX Analog Ex series. Connection of terminal points 3.1 and 3.2 as well as 2.1 and 2.2 (signal transmission) to the signal PCB.

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



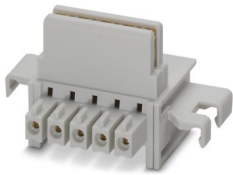
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ME 17,5 TBUS 1,5/ 5-ST-3,81 GY - DIN rail bus connectors

1090049

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DIN rail connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-17,5..., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting method: 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/in/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

Product properties

Product type	Module carrier
Insulation characteristics: Air clearances and creepage distances	
Overvoltage category	II
Pollution degree	2

Electrical properties

Max. permissible current	± 1 A (per signal path)
Nominal voltage U_N	< 50 V DC (Per signal/channel)

Supported controller SIEMENS ET 200SP HA

Suitable I/O card	6DL1131-6BH00-0PH1
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Supply

Designation	Feed-in module
Note	Power supply via 2904673 TC-MACX-MCR-PTB power supply and error signaling module.
Fuse	2x 2.5 A Slow-blow (can be exchanged)
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	30 V DC (50 mA)

Connection data

COMBICON connection

Connection method	Screw connection
Stripping length	7 mm
Number of positions	6
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Controller level

Connection method	D-SUB pin strip
Number of positions	37

CH1 ... CH16 cable sets

Connection method	PTSM connector
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Number of positions	4
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Signaling

Status display	2x green LEDs (PWR1 and PWR2)
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Dimensions

Width	148 mm
Height	170 mm
Depth	160 mm

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

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	IEC/EN 60664-1
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Mounting

Mounting type	DIN rail mounting
Assembly note	No end clamp
Mounting position	any

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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1642199>

	 UL Listed Approval ID: E330267			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

	 cUL Listed Approval ID: E330267			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

	 cUL Listed Approval ID: E199827			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	50 V	1 A	-	-

	 UL Listed Approval ID: E199827			
	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
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 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)

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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Mandatory accessories

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

2904673

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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-2NAM-RO - Isolation switch amplifier

2865476

<https://www.phoenixcontact.com/in/products/2865476>



Ex i NAMUR isolating amplifier, 2-channel. For operating proximity sensors and switches in Ex areas. The signals are transmitted via relay outputs (N/O contact) to the safe area. Line fault detection (LFD), 3-way isolation, SIL 2.

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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MACX MCR-EX-SL-2NAM-RO-SP - Isolation switch amplifier

2924087

<https://www.phoenixcontact.com/in/products/2924087>



Ex i NAMUR isolating amplifier, 2-channel. For operating proximity sensors and switches in Ex areas. The signals are transmitted via relay outputs (N/O contact) to the safe area. Line fault detection (LFD), 3-way isolation, SIL 2.

MACX MCR-EX-SL-2NAM-T - Isolation switch amplifier

2865489

<https://www.phoenixcontact.com/in/products/2865489>



Ex i NAMUR isolating amplifier, 2-channel. For operating proximity sensors and switches in Ex areas. The signals are transmitted via transistor outputs (passive) to the safe area. Line fault detection (LFD), 3-way isolation, SIL 2.

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier

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MACX MCR-EX-SL-2NAM-T-SP - Isolation switch amplifier

2924090

<https://www.phoenixcontact.com/in/products/2924090>



Ex i NAMUR isolating amplifier, 2-channel. For operating proximity sensors and switches in Ex areas. The signals are transmitted via transistor outputs (passive) to the safe area. Line fault detection (LFD), 3-way isolation, SIL 2.

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

2305509

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2305512

<https://www.phoenixcontact.com/in/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

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

2305525

<https://www.phoenixcontact.com/in/products/2305525>



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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2900759

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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

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

2900760

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2900761

<https://www.phoenixcontact.com/in/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

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

2900762

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2900763

<https://www.phoenixcontact.com/in/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

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

2900764

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2902074

<https://www.phoenixcontact.com/in/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

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

2902075

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2902076

<https://www.phoenixcontact.com/in/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

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

2902077

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2908516

<https://www.phoenixcontact.com/in/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

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

2908517

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2908518

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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

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

2908522

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2908523

<https://www.phoenixcontact.com/in/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

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

2908525

<https://www.phoenixcontact.com/in/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

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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

2908526

<https://www.phoenixcontact.com/in/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

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

1075563

<https://www.phoenixcontact.com/in/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

Accessories

TC-D37SUB-DI16-2EX-P-ETHA - Module carrier



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EMLF (108XE)R - Label, highly flexible

0800549

<https://www.phoenixcontact.com/in/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, Number of individual labels: 1, text field height: 108 mm, text field width: 48000 mm

ZBF 15:UNBEDRUCKT - Zack Marker strip, flat

0811202

<https://www.phoenixcontact.com/in/products/0811202>



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

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