

https://www.phoenixcontact.com/us/products/2902042



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3-way signal conditioner with plug-in connection technology for the electrical isolation of unipolar and bipolar analog signals. Input signal: 0 ... 10 V/±10 V, output signal: 0 ... 10 V/±10 V, screw connection technology

Product description

Standard signal 3-way signal conditioner with plug-in connection technology for the electrical isolation, conversion, amplification, and filtering of standard voltage signals. The measuring transducer supports fault monitoring and NFC communication.

Commercial data

Item number	2902042
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C404
Product key	CK1411
Catalog page	Page 76 (C-5-2019)
GTIN	4046356652070
Weight per piece (including packing)	114 g
Weight per piece (excluding packing)	101.4 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Notes

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

Product properties

Product type	Signal conditioner
Product family	MINI Analog Pro
No. of channels	1
Туре	Signal conditioner

Insulation characteristics: GB Standard

Overvoltage category	II
Pollution degree	2

Electrical properties

Electrical isolation	3-way isolation
Electrical isolation between input and output	yes
Limit frequency (3 dB)	approx. 30 Hz
Protective circuit	Transient protection
Signal transmission behavior	In = Out
Step response (10-90%)	approx. 10 ms
Maximum temperature coefficient	0.01 %/K
Temperature coefficient, typical	0.01 %/K
Maximum transmission error	0.1 % (of final value)

Electrical isolation Input/output/power supply

Rated insulation voltage	300 V _{rms}
Test voltage	3 kV AC (50 Hz, 60 s)
Insulation	Reinforced insulation according to IEC/EN 61010-1

Supply

Nominal supply voltage	24 V DC
Supply voltage range	9.6 V DC 30 V DC (The DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail in accordance with EN 60715)
Typical current consumption	25 mA (24 V DC)
	54 mA (12 V DC)
Power consumption	≤ 200 mW (at 9.6 V DC)

Input data

Signal: Voltage



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Number of inputs	1
Configurable/programmable	no
Voltage input signal	0 V 10 V
	-10 V 10 V
	2 V 10 V
Input resistance of voltage input	approx. 1 MΩ

Output data

Signal: Voltage

Number of outputs	1
Configurable/programmable	no
Voltage output signal	0 V 10 V
	-10 V 10 V
Max. voltage output signal	11 V
Short-circuit current	< 15 mA
Load/output load voltage output	≥ 10 kΩ
Ripple	< 20 mV _{PP} (at 10 k Ω)

Connection data

Connection method	Screw connection
Stripping length	10 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² 1.5 mm ² (with ferrule)
	0.14 mm² 2.5 mm² (without ferrule)
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	24 12 (flexible)
Tightening torque	0.5 Nm 0.6 Nm

Ex data

Ex installation (EPL)	Gc
	Div. 2

Signaling

Status display	Green LED (supply voltage)

Dimensions

Width	6.2 mm
Height	109.81 mm
Depth	119.2 mm

Material specifications

Color	gray (RAL 7042)
Housing material	PBT
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2



2902042

EMC

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Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2
Environmental and real-life conditions	
Environmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20 (not assessed by UL)
Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % 95 % (non-condensing)
Approvals	
CE	
Certificate	CE-compliant
ATEX	
Identification	
Certificate	BVS 19 ATEX E 047 X
UKCA Ex (UKEX)	
Identification	
Certificate	PxClF21UKEX2902000X
IECEx	
Identification	Ex ec IIC T4 Gc
Certificate	IECEx BVS 19.0041X
CCC / China-Ex	
Identification	Ex nA IIC T4 Gc
	EXTRAINS 11 GG
UL, USA/Canada Identification	UL 508 Listed
identification	
	Class I, Div. 2, Groups A, B, C, D T6 Class I, Zone 2, Group IIC T6
	Class I, Zone 2, Group IIC 16
Shipbuilding approval	
Certificate	DNV GL TAA00002UA
EAC Ex	
Identification	⊞ L_∫Ex ec IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00079
DNV GL data	
Temperature	В
Humidity	В
Vibration	A
5110	

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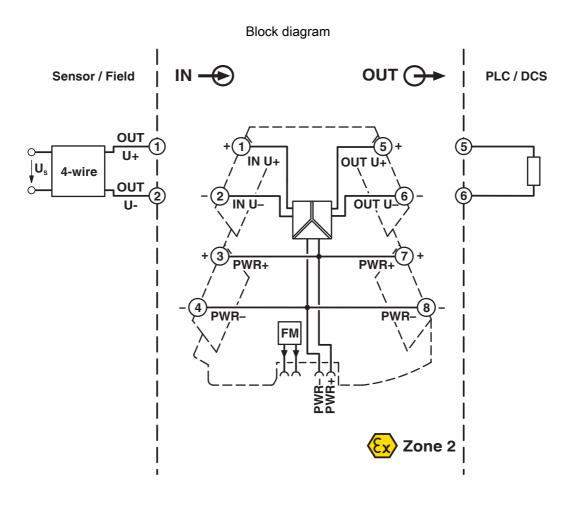
EMC data Noise immunity Note When being exposed to interference, there may be minimal deviations. Electromagnetic compatibility Conformance with EMC directive EN 61000-6-4 Electrostatic discharge Standards/regulations EN 61000-4-2 Electrostatic discharge Comments Safety measures must be taken to prevent electrostatic discharge. Electromagnetic HF field Designation Electromagnetic RF field Standards/regulations EN 61000-4-3 Fast transients (burst) Designation Standards/regulations EN 61000-4-3 Fast transients (burst) Electromagnetic RF field Standards/regulations EN 61000-4-3 Standards/regulations EN 61000-4-4 Standards/regulations EN 61000-4-5 Conducted interference Designation Conducted interference Designation Standards/regulations EN 61000-4-6 Standards/regulations EN 61000-4-6 Standards/regulations Electronal goal interference Designation Standards/regulations EN 61000-4-6 Standards/regulations Electronal goal interference Designation GB Standards GB Standard Standards/regulations Electronal goal interference Designation Designat	Enclosure	Required protection according to the Rules shall be provided upon installation on board
Note When being exposed to interference, there may be minimal deviations. Electromagnetic compatibility Conformance with EMC directive Electrostatic discharge Standards/regulations EN 61000-6-4 Electrostatic discharge Comments Safety measures must be taken to prevent electrostatic discharge. Electromagnetic HF field Designation Electromagnetic RF field Designation Electromagnetic RF field Standards/regulations EN 61000-4-3 Fast transients (burst) Designation Fast transients (burst) Standards/regulations EN 61000-4-4 Surge current load (surge) Standards/regulations EN 61000-4-5 Conducted interference Designation Conducted interferences Standards/regulations EN 61000-4-6 Standards/regulations Electromagnetic RF field Conducted interference Designation Conducted interferences Standards/regulations Electromagnetic RF field Standards/regulations EN 61000-4-5 Mounting Mounting type DIN rail mounting Mounting type DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	EMC data	
Electromagnetic compatibility	Noise immunity	EN 61000-6-2
Electrostatic discharge Standards/regulations EN 61000-4-2 Electrostatic discharge Comments Safety measures must be taken to prevent electrostatic discharge. Electromagnetic HF field Designation Electromagnetic RF field Designation Electromagnetic NF field Standards/regulations EN 61000-4-3 Fast transients (burst) Designation Fast transients (burst) Standards/regulations EN 61000-4-4 Surge current load (surge) Standards/regulations EN 61000-4-5 Conducted interference Designation Conducted interference Designation Standards/regulations EN 61000-4-6 Standards and regulations Electrical isolation GB Standard Standards/regulations GB 3836.1 GB 3836.8 Mounting Mounting Mounting type DIN rail mounting Assembly note	Note	
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Electrostatic discharge Comments Safety measures must be taken to prevent electrostatic discharge. Electromagnetic HF field Designation Electromagnetic RF field Standards/regulations EN 61000-4-3 Fast transients (burst) Designation Fast transients (burst) Standards/regulations EN 61000-4-4 Surge current load (surge) Standards/regulations EN 61000-4-5 Conducted interference Designation Conducted interferences Standards/regulations EN 61000-4-6 Standards and regulations Electrical isolation 3-way isolation GB Standard Standards/regulations GB 3836.8 Mounting Mounting type Assembly note DIN rail mounting The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	Electrostatic discharge	
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Electromagnetic HF field Designation Electromagnetic RF field Standards/regulations EN 61000-4-3 Fast transients (burst) Designation Fast transients (burst) Standards/regulations EN 61000-4-4 Surge current load (surge) Standards/regulations EN 61000-4-5 Conducted interference Designation Conducted interferences Standards/regulations EN 61000-4-6 Standards/regulations Electrical isolation 3-way isolation GB Standard Standards/regulations GB 3836.1 GB 3836.8 Mounting Mounting type DIN rail mounting Assembly note The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	Electrostatic discharge	
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Electrical isolation GB Standard Standards/regulations GB 3836.1 GB 3836.8 Mounting Mounting type Assembly note DIN rail mounting The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	Standards/regulations	EN 61000-4-6
GB Standards/regulations GB 3836.1 GB 3836.8 Mounting Mounting type DIN rail mounting Assembly note The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	Standards and regulations	
Standards/regulations GB 3836.1 GB 3836.8 Mounting Mounting type DIN rail mounting Assembly note The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	Electrical isolation	3-way isolation
Mounting Mounting type DIN rail mounting Assembly note The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	GB Standard	
Mounting Mounting type DIN rail mounting Assembly note The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	Standards/regulations	GB 3836.1
Mounting type DIN rail mounting The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.		GB 3836.8
Assembly note The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	Mounting	
voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.	Mounting type	DIN rail mounting
Mounting position any	Assembly note	
	Mounting position	any



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Drawings





2902042

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2902042



DNV GL

Approval ID: TAA00002UA



UL Listed

Approval ID: FILE E 238705



CCC

Approval ID: 2021322310003859



cUL Listed

Approval ID: FILE E 238705



ECEx

Approval ID: IECEx BVS 19.0041X



cUL Listed

Approval ID: FILE E 196811



UL Listed

Approval ID: FILE E 196811



ATEX

Approval ID: BVS 19 ATEX E 047 X

cULus Listed

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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27210120
ECLASS-12.0	27210120
ECLASS-13.0	27210120
ETIM	
ETIM 9.0	EC002653
UNSPSC	

39121000



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15, 15(a), 7(a), 7(c)-l
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	3e0aa4df-1dfb-4648-935d-7e2dceeace2f



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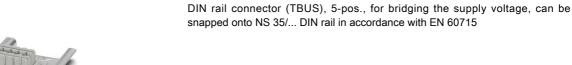


Accessories

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

2695439

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





2869728

https://www.phoenixcontact.com/us/products/2869728

DIN rail connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.





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

2906640

https://www.phoenixcontact.com/us/products/2906640



Universal Termination Carrier for connecting 16 MINI Analog Pro signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection), with HART multiplexer connection

TC-D37SUB-ADIO16-MP-P-UNI - Module carrier

2906639

https://www.phoenixcontact.com/us/products/2906639

Universal Termination Carrier for connecting 16 MINI Analog Pro signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection)





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MINI MCR-2-V8-FLK 16 - System adapter

2901993

https://www.phoenixcontact.com/us/products/2901993



Eight MINI Analog Pro signal conditioners and measuring transducers can be connected to a controller with minimal cabling effort and without any errors using system adapters and system cabling.

MINI MCR-2-V8-MOD-RTU - Communication module

2905634

https://www.phoenixcontact.com/us/products/2905634



Eight MINI Analog Pro signal conditioners and measuring transducers are quickly and easily integrated into a Modbus/RTU network via a communication adapter.



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MINI MCR-2-V8-MOD-TCP - Communication module

2905635

https://www.phoenixcontact.com/us/products/2905635



Eight MINI Analog Pro signal conditioners and measuring transducers are quickly and easily integrated into a Modbus/TCP network via a communication adapter.

MINI MCR-2-V8-PB-DP - Communication module

2905636

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Eight MINI Analog Pro signal conditioners and measuring transducers are quickly and easily integrated into a PROFIBUS DP network via a communication adapter.



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MINI MCR-2-V8-PN - Communication module

2905637

https://www.phoenixcontact.com/us/products/2905637



Eight MINI Analog Pro signal conditioners and measuring transducers can be quickly and easily integrated into a PROFINET network via a communication adapter.

FASTCON PRO-SET - Connector set

2906227

https://www.phoenixcontact.com/us/products/2906227



FASTCON Pro plug set consisting of four plugs with screw connection, one for each position on the module. Suitable for all MINI Analog Pro modules.



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FASTCON PRO-SET-PT - Connector set

2906228

https://www.phoenixcontact.com/us/products/2906228



FASTCON Pro plug set consisting of four plugs with push-in connection, one for each position on the module. Suitable for all MINI Analog Pro modules.

UCT-EM (30X5) - Marker for end clamp

0801505

https://www.phoenixcontact.com/us/products/0801505



Marker for end clamp, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 30 x 5 mm, Number of individual labels: 24



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UCT-EM (30X5) CUS - Marker for end clamp

0801589

https://www.phoenixcontact.com/us/products/0801589



Marker for end clamp, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snapped into marker carrier, lettering field size: 30 x 5 mm, Number of individual labels: 24

SK 5,0 WH:REEL - Marker strip

0805221

https://www.phoenixcontact.com/us/products/0805221



Marker strip, 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: continuous x 5 mm, Number of individual labels: 10



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UC-EMLP (15X5) - Plastic label

0819301

https://www.phoenixcontact.com/us/products/0819301



Plastic label, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 10

UC-EMLP (15X5) YE - Plastic label

0822615

https://www.phoenixcontact.com/us/products/0822615



Plastic label, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 10



2902042

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UC-EMLP (15X5) CUS - Plastic label

0824550

https://www.phoenixcontact.com/us/products/0824550

Plastic label, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: adhesive, lettering field size: $15 \times 5 \text{ mm}$



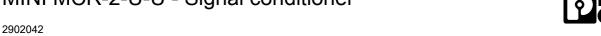
UC-EMLP (15X5) YE CUS - Plastic label

0824551

https://www.phoenixcontact.com/us/products/0824551

Plastic label, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: adhesive, lettering field size: 15 x 5 mm







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UC-EMLP (15X5) SR - Plastic label

0828095

https://www.phoenixcontact.com/us/products/0828095



Plastic label, Sheet, silver, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 10

UC-EMLP (15X5) SR CUS - Plastic label

0828099

https://www.phoenixcontact.com/us/products/0828099



Plastic label, can be ordered: by sheet, silver, labeled according to customer specifications, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 10



2902042

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US-EMLP (15X5) - Plastic label

0828790

https://www.phoenixcontact.com/us/products/0828790



Plastic label, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189

US-EMLP (15X5) YE - Plastic label

0828873

https://www.phoenixcontact.com/us/products/0828873



Plastic label, Card, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189



2902042

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US-EMLP (15X5) SR - Plastic label

0828874

https://www.phoenixcontact.com/us/products/0828874



Plastic label, Card, silver, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189

US-EMLP (15X5) CUS - Plastic label

0830076

https://www.phoenixcontact.com/us/products/0830076

Plastic label, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189





2902042

https://www.phoenixcontact.com/us/products/2902042

US-EMLP (15X5) YE CUS - Plastic label

0830077

https://www.phoenixcontact.com/us/products/0830077



Plastic label, can be ordered: by card, yellow, labeled according to customer specifications, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189

US-EMLP (15X5) SR CUS - Plastic label

0830078

https://www.phoenixcontact.com/us/products/0830078



Plastic label, can be ordered: by card, silver, labeled according to customer specifications, mounting type: adhesive, lettering field size: 15 x 5 mm, Number of individual labels: 189



https://www.phoenixcontact.com/us/products/2902042



UCT-EM (30X5) YE - Marker for end clamp

0830340

https://www.phoenixcontact.com/us/products/0830340



Marker for end clamp, Sheet, yellow, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, lettering field size: 30 x 5 mm, Number of individual labels: 24

UCT-EM (30X5) YE CUS - Marker for end clamp

0830348

https://www.phoenixcontact.com/us/products/0830348



Marker for end clamp, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snapped into marker carrier, lettering field size: 30×5 mm, Number of individual labels: 24



https://www.phoenixcontact.com/us/products/2902042



MINI MCR-2-PTB - Power terminal block

2902066

https://www.phoenixcontact.com/us/products/2902066



Power terminal with plug-in connection technology for delivering the supply voltage to the DIN rail connector. Monitoring of the supply voltages in combination with the fault monitoring module. Screw connection technology

MINI MCR-2-PTB-PT - Power terminal block

2902067

https://www.phoenixcontact.com/us/products/2902067



Power terminal with plug-in connection technology for delivering the supply voltage to the DIN rail connector. Monitoring of the supply voltages in combination with the fault monitoring module. Push-in connection technology



https://www.phoenixcontact.com/us/products/2902042



QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply unit

2904614

https://www.phoenixcontact.com/us/products/2904614



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

MINI MCR-2-FM-RC - Monitoring block

2904504

https://www.phoenixcontact.com/us/products/2904504



Fault monitoring module with plug-in connection technology for evaluating and reporting group errors from the FM system and for monitoring the supply voltages. Error message via N/C contact. Screw connection technology, standard configuration



https://www.phoenixcontact.com/us/products/2902042



MINI MCR-2-FM-RC-PT - Monitoring block

2904508

https://www.phoenixcontact.com/us/products/2904508



Fault monitoring module with plug-in connection technology for evaluating and reporting group errors from the FM system and for monitoring the supply voltages. Error message via N/C contact. Push-in connection technology, standard configuration

SZS 0,6X3,5 - Screwdriver

1205053

https://www.phoenixcontact.com/us/products/1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

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