

MINI MCR-SL-UI-REL - Limit value switch



2864480

<https://www.phoenixcontact.com/pt/produtos/2864480>

Note que os dados aqui indicados foram obtidos a partir do catálogo online. Para informações e dados completos, consulte a documentação do utilizador. Aplicam-se as condições gerais de utilização para downloads da Internet

MCR limit value switch, with adjustable hysteresis and delay time, with screw connection



Descrição do produto

The only 6.2 mm wide configurable 3-way threshold value switch MINI MCR-SL-UI-REL... is used for the closed-loop control and monitoring of standard analog signals.

On the input side, the analog standard signals 0...20 mA or 0...10 V per DIP switch can be set. A relay with changeover contact is available on the output side. The switching thresholds are set via a potentiometer.

The DIP switches, which can be accessed on the side of the housing, have the following functions:

- Configuring the switching hysteresis,
- Configuring the operating and closed circuit current behavior,
- Setting the relay energizing times as well as
- Setting the dropout delays.

The relay status is shown by a yellow LED in the front of the housing.

Power (19.2 V DC to 30 V DC) can either be supplied via the connection terminal blocks of the modules or in conjunction with the DIN rail connector.

Vantagens

- Power supply possible via the foot element (TBUS)
- Highly-compact threshold value switch for switching analog limit values
- Status and error indication via two diagnostic LEDs
- Operating current/closed circuit current switch-over
- Changeover contact relay at the output
- Limit value can be freely adjusted via potentiometer on the front
- Input signal, hysteresis, and delay time can be configured via DIP switches
- 3-way isolation

Dados comerciais

N.º de artigo	2864480
Pcs./Emb	1 Unidade
Quantidade mínima de pedido	1 Unidade
Chave comercial	CK1
Chave de produto	CK1243
Página de catálogo	Página 113 (C-7-2015)
GTIN	4017918974879
Peso por unidade (inclusive embalagem)	101,2 g
Peso por unidade (excluindo embalagem)	70,9 g

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Número do imposto alfandegário	85437090
País de origem	DE

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Dados técnicos

Notes

Utilization restriction

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

Product type	Limit value switch
Product family	MINI Analog
No. of channels	1
Configuration	DIP switches

Insulation characteristics

Overvoltage category	II
Pollution degree	2

System properties

Functionality

Configuration	DIP switches
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Electrical properties

Electrical isolation	3-way isolation
Electrical isolation between input and output	yes
Maximum power dissipation for nominal condition	< 405 mW
Switching point accuracy	< 0.05 %
Step response (0–99%)	< 35 ms
Maximum temperature coefficient	< 0.02 %/K

Electrical isolation Input/power supply

Rated insulation voltage	50 V AC/DC
Test voltage	1.5 kV AC (50 Hz, 60 s)
Insulation	Basic insulation in accordance with IEC/EN 61010

Supply

Nominal supply voltage	24 V DC $\pm$ 15 %
Supply voltage range	19.2 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)
Max. current consumption	< 14 mA (at 24 V DC)
Power consumption	< 330 mW (at 24 V DC)

Input data

Signal: Voltage/current

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Number of inputs	1
Voltage input signal	0 V ... 10 V
Max. voltage input signal	30 V
Current input signal	0 mA ... 20 mA
Max. current input signal	100 mA
Input resistance of voltage input	> 100 k Ω
Input resistance current input	50 Ω
Specification of the switching point	With 25-speed potentiometer

Output data

Switching: Relay

Contact switching type	1 changeover contact
Contact material	AgSnO ₂ , hard gold-plated
Maximum switching voltage	250 V AC 240 V AC (UL)
Limiting continuous current	2 A
Setting range of the response delay	0 s ... 10 s (0 s, 1 s, 2 s, 3 s, 4 s, 6 s, 8 s, 10 s)
Internal hysteresis	0.1 %, 1 %, 2.5 %, 5 %

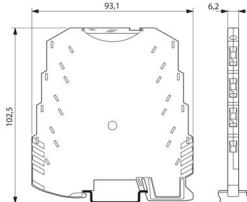
Signal

Number of outputs	1
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Connection data

Connection method	Screw connection
Stripping length	12 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	26 ... 12

Dimensions

Dimensional drawing	
Width	6.2 mm
Height	93.1 mm
Depth	101.2 mm

Material specifications

Color	green (RAL 6021)
Housing material	PBT

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Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2
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

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant
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UKCA

Certificate	UKCA-compliant
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UL, USA

Identification	Class I, Zone 2, AEx nA nC IIC T5
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UL, USA/Canada

Identification	UL 508 Recognized
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UL, Canada

Identification	Class I, Zone 2, Ex nA nC IIC T5 Gc
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Shipbuilding approval

Certificate	DNV GL TAA00002R0
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DNV GL data

Temperature	B
Humidity	B
Vibration	B
EMC	A
Enclosure	Required protection according to the Rules shall be provided upon installation on board

EMC data

Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

Electrostatic discharge

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Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Comments	Safety measures must be taken to prevent electrostatic discharge.
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Electromagnetic HF field

Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Typical deviation from the measuring range final value	5 %

Fast transients (burst)

Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Typical deviation from the measuring range final value	5 %

Surge current load (surge)

Standards/regulations	EN 61000-4-5
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Surge current load (surge)

Comments	Criterion B
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Conducted interference

Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Typical deviation from the measuring range final value	5 %

Standards and regulations

Electrical isolation	3-way isolation
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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.
Mounting position	any

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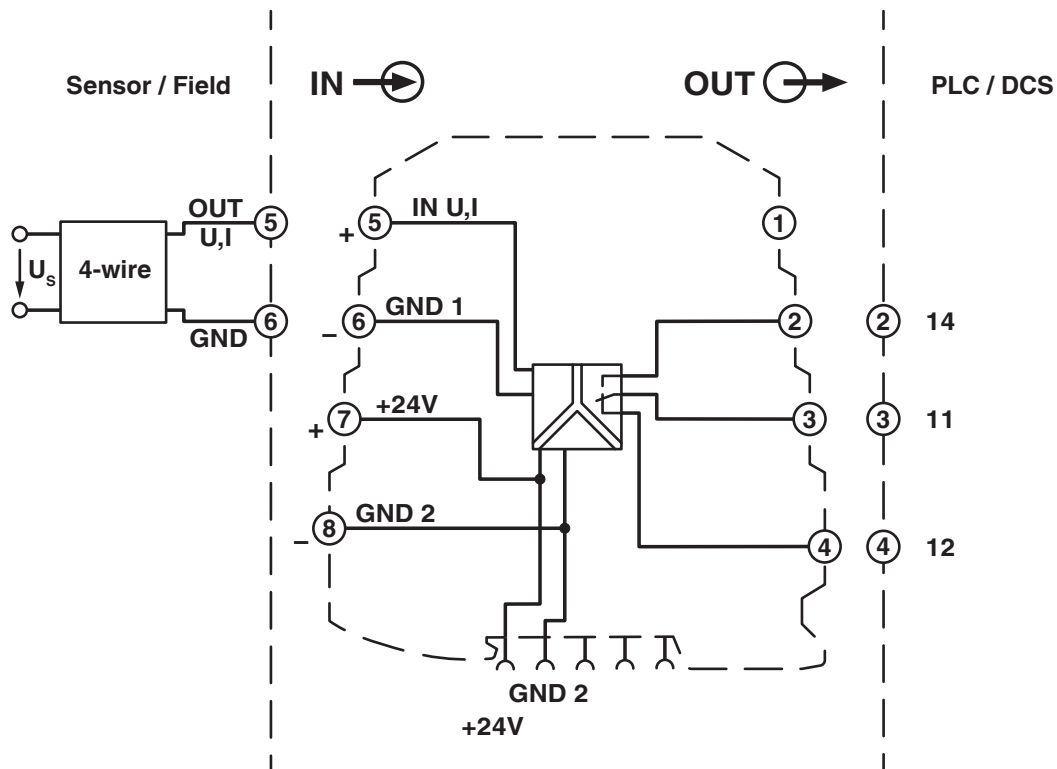
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Desenhos

Block diagram



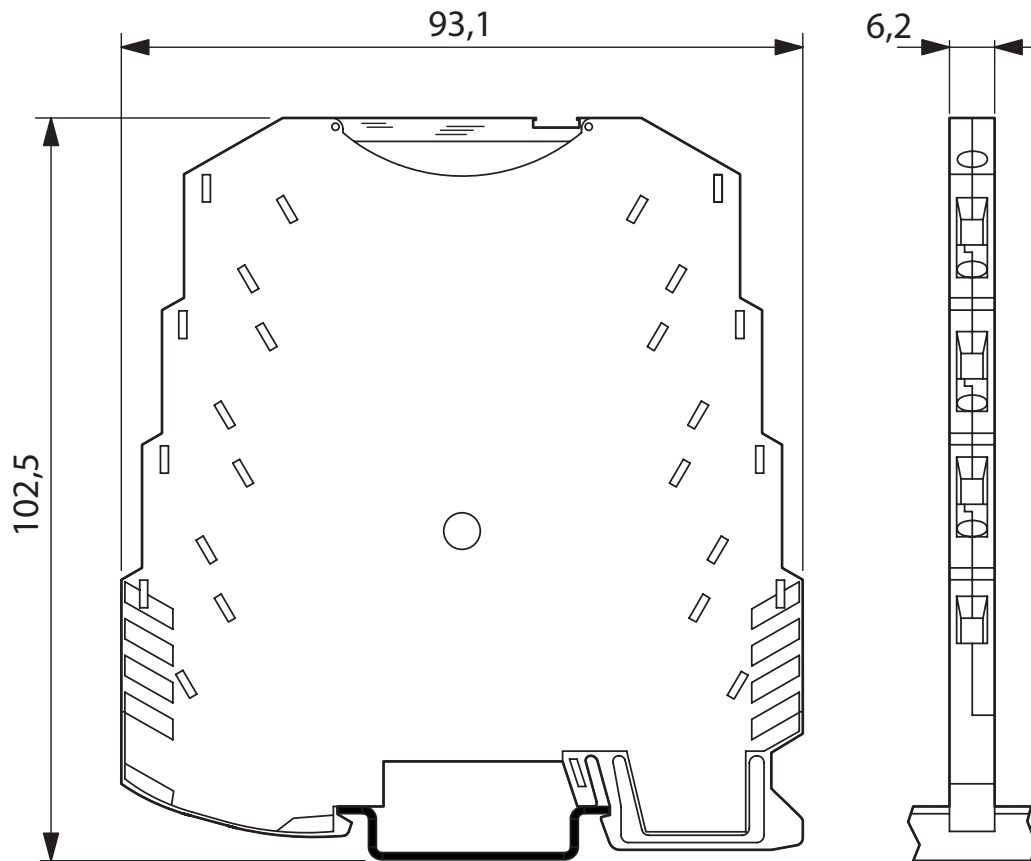
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Dimensional drawing



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Certificações

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pt/produtos/2864480>



cUL Recognized
ID de certificação: FILE E 238705



UL Recognized
ID de certificação: FILE E 238705



DNV GL
ID de certificação: TAA00002R0



cUL Listed
ID de certificação: FILE E 199827



UL Listed
ID de certificação: FILE E 199827

cULus Recognized

cULus Listed

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Classificações

ECLASS

ECLASS-11.0	27210120
ECLASS-12.0	27210120
ECLASS-13.0	27210120

ETIM

ETIM 9.0	EC002653
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UNSPSC

UNSPSC 21.0	39121000
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Environmental product compliance

EU RoHS

Cumpra os requisitos de substância segundo a Diretiva RoHS	Sim
isenções tanto quanto conhecido	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	Uma lista de declaração de acordo com a RoHS da China relativa a artigos encontra-se na área de transferências do respetivo artigo, em "Declaração do fabricante". Para todos os artigos com EFUP-E não é emitida nem necessária uma tabela de declaração de acordo com a RoHS da China.

EU REACH SVHC

Nota sobre as substâncias candidatas ao REACH (n.º CAS)	Lead(n.º CAS: 7439-92-1)
SCIP	58915e49-d3e5-449c-801c-63c44f8adc58

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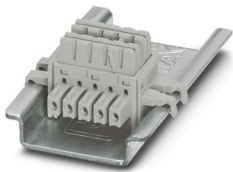
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Acessórios

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

2695439

<https://www.phoenixcontact.com/pt/produtos/2695439>

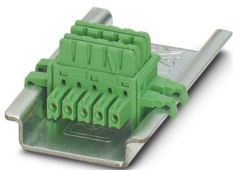


DIN rail connector (TBUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rail in accordance with EN 60715

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

2869728

<https://www.phoenixcontact.com/pt/produtos/2869728>



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

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

2902934

<https://www.phoenixcontact.com/pt/produtos/2902934>



Universal termination carrier for connecting 16 MINI Analog 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-M-P-UNI - Module carrier

2902933

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

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MINI MCR DKL - Transparent cover

2308111

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Fold up transparent cover for MINI MCR modules with additional labeling option using insert strips and flat Zack marker strip 6.2 mm

MINI MCR-DKL-LABEL - Marking label

2810272

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Label for extended marking of MINI MCR modules in connection with the MINI MCR-DKL

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MINI MCR-SL-PTB - Power terminal block

2864134

<https://www.phoenixcontact.com/pt/produtos/2864134>



MCR power terminal block for supplying several MINI Analog modules via the DIN rail connector, with screw connection, maximum current consumption of up to 2 A

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

2904614

<https://www.phoenixcontact.com/pt/produtos/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

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SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/pt/produtos/1205053>



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

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