

HART multiplexer - MACX MCR-S-MUX



2865599

<https://www.phoenixcontact.com/de/produkte/2865599>

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.



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

Your advantages

- Supports online configuration and diagnostics for the connected HART-compatible field devices
- Communication via software tool (e.g., HART OPC server) using RS-485 interface
- Up to 128 HART multiplexers on one PC interface
- 32 HART channels per multiplexer
- Continuous documentation of process variables and states
- Electrical isolation between auxiliary voltage, RS-485 bus, and the HART channels
- HART field devices are accessed parallel to the transmission of the measurement signal without affecting measured value processing
- HART field devices connected via universal HART connection boards; direct connection if processing non-Ex signals, with separate Ex i signal isolator connected upstream if processing Ex signals
- Power supply via HART connection board

Commercial Data

Item number	2865599
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	J1 - MSR-Technik
Product Key	CK11ZZ
Catalog Page	Page 172 (C-5-2019)
GTIN	4046356153898
Weight per Piece (including packing)	206,4 g
Weight per Piece (excluding packing)	206,4 g
Customs tariff number	85176200
Country of origin	DE

Technical Data

Product properties

Product type	Multiplexer
--------------	-------------

Electrical properties

Error monitoring	Processor error: The "PWR" LED flashes; error in the HART communication: the "ERR" LED flashes
------------------	--

Electrical isolation HART signal/RS-485

Electrical isolation	350 V AC
----------------------	----------

Electrical isolation HART signals/HART signals

Electrical isolation	100 V DC (capacitive)
----------------------	-----------------------

Electrical isolation Supply/HART signal/RS-485

Electrical isolation	300 V AC
----------------------	----------

Supply

Supply voltage	24 V DC
Supply voltage range	18 V ... 31.2 V
Typical current consumption	55 mA
Nominal power consumption	1.35 W
Undervoltage monitoring	Yes (no faulty devices / output states)

Interfaces

HART

Designation	HART FSK
Channels	16 or 32; adjustable using a switch
Connection method	Flat-ribbon cable, 14-pos. (inclusive)
HART specification	HART Field Communication Protocol Rev. 6.0 (downward compatible up to Rev 4.0); FSK Physical Layer Specification (Rev. 8.1)
Data transmission display	Two yellow "Tx" and "Rx" "HART" LEDs
Display error	Red "ERR" LED (flashes in case of an error in the HART bus)

RS-485

Number	1
Connection method	D-SUB-9 female connector
Designation	RS-485
Data flow control/protocols	Compatible with OPC HART server, PDM, PRM, and FDT/DTM
Number of HART multiplexers per bus segment	Max 31
Address setting	0...127; using a rotary switch at the front
Serial transmission speed	9600 / 19200 / 38400 / 57600 [bps]; via rotary switch at the front
Transmission length	≤ 1200 m
Display	Two yellow "Tx" and "Rx" "RS-485" LEDs

HART multiplexer - MACX MCR-S-MUX

2865599

<https://www.phoenixcontact.com/de/produkte/2865599>

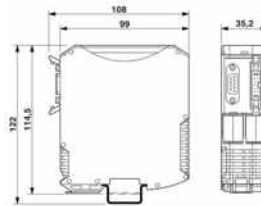
LED signaling

Operating voltage display

Green "PWR" LED

Dimensions

Dimensional drawing



Width

35.2 mm

Height

108.8 mm

Depth

114.5 mm

Material specifications

Flammability rating according to UL 94

V0 (Housing)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)

-20 °C ... 60 °C (aligned)

-20 °C ... 70 °C (Stand-alone device)

Ambient temperature (storage/transport)

-40 °C ... 80 °C

Max. permissible relative humidity (operation)

≤ 95 % (non-condensing)

Approval data

CE

Certificate

CE-compliant

Mounting

Mounting type

DIN rail mounting

HART multiplexer - MACX MCR-S-MUX

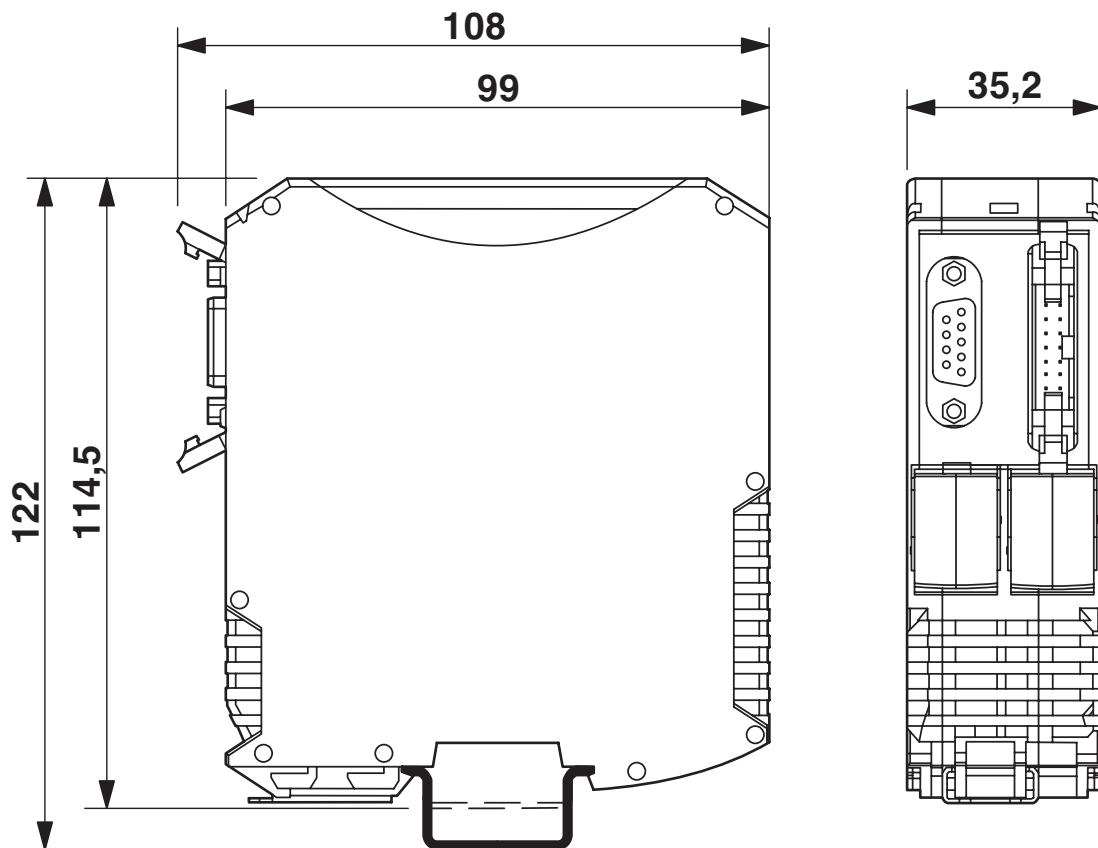
2865599

<https://www.phoenixcontact.com/de/produkte/2865599>



Drawings

Dimensional drawing



HART multiplexer - MACX MCR-S-MUX

2865599

<https://www.phoenixcontact.com/de/produkte/2865599>



Approvals



EAC

Approval ID: RU*DE.*08.B.01608/19

HART multiplexer - MACX MCR-S-MUX



2865599

<https://www.phoenixcontact.com/de/produkte/2865599>

Classifications

ECLASS

ECLASS-9.0	27242608
ECLASS-10.0.1	27242608
ECLASS-11.0	27242608

ETIM

ETIM 8.0	EC001604
----------	----------

UNSPSC

UNSPSC 21.0	32151600
-------------	----------

HART multiplexer - MACX MCR-S-MUX



2865599

<https://www.phoenixcontact.com/de/produkte/2865599>

Environmental Product Compliance

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

Phoenix Contact 2023 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Deutschland GmbH
Flachmarktstraße 8
D-32825 Blomberg
+49 52 35/3-1 20 00
info@phoenixcontact.de