C3 Snap-ON Alarm Modules

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Overview

General data:

Creepage distances: Unitro-Standard
Degree of protection: IP20
Climatic conditions: Unitro-Standard
EMC-values: Unitro-Standard
Status indication with LED

Types	**C3 Ethernet-Bus coupler**	**C3 LON-bus and 3 phase coupler PLT**	**C3 digital IN + OUT**	**C3 analogue GT IN + OUT**	**C3text plain text-display**	**C3modem VDS compliant telephone dealer**	**C3 Main power unit**
Dimensions (w x h x d) in mm	22,5x99x113,5	22,5x99x113,5	22,5x99x113,5	22,5x99x113,5 45x99x113,5 (DO-2S)	288 x 72 x 127 Cutting for installation 283 x 62		35x99x95
Weight approx.	150g	150g	150g	150g	750g		250g
Connection	Screw-type terminals/ plug connection max. 2,5mm²	Screw-type terminals/ plug connection max. 2,5mm²	Screw-type terminals/ plug connection max. 2,5mm²	Screw-type terminals/ plug connection max. 2,5mm²	Screw-type termi-nals/plug connection with screw-type flange max. 2,5mm²	Screw-type terminals/ plug connection max. 2,5mm²	Screw-type terminals/ plug connection max. 2,5mm²
Power supply	24V DC ± 10%	24V DC ± 10%	via DIN rail-bus	via DIN rail-bus	**85-265V AC /** **85-250V DC** or **14-28V AC /** **19-36V DC**, 100mA		100 -240V AC
Inputs	**Available 2012**		**C3 DI-8:** 8x floating 24V DC ± 10%, 5mA per input Response delay: 25ms Minimum signal duration: 5ms	4 analogue channels **galvanic separated (1500V DC),** with pluggable modules freely selectable: **0/4-20mA** input resistance: 56Ω **0-10V** input re-sistance:1MΩ **PT100** 2 wire / 3 wire / 4 wire	320 messages modular and distribut-ed expansion possible in steps of 24 with UNITRO I/O-Modules (recommended **C3** or MVL 24/0)	**Available 2012**	
Outputs			**C3 DO-8:** 8x Normally open contact **C3 DO-2S:** 2x **positive guided safety relays** accord-ing to EN 50205 each with 2x potential-free normally open contacts + 2x potential-free normally closed contacts, max.250V AC, 5A / 25V DC, 5A Electrical isolation: $2000V_{rms}$	**0/4-20mA** max. 400Ω 0-10V min. 1kΩ, max. 10 EVG	Group alarm and equipment fault output: change over contact, max. 250V AC, 5A, 25V DC, 5A Horn output: normally open max. 250V AC, 5A, 25V DC, 5A		Nominal output voltage: 24V DC ±1% Output current: 1,5A (-25°C-60°C), 2A (with POWER BOOST, -25°C-40°C permanent)
Remarks	**Ethernet TCP/IP** coupler for LAN and Internet connections	**C3-FTX**: LON FTT10A two wire (twisted-pair), 78kbps max. 2,7km **C3-PLT**: LON PLT22 two wire, C-band 125-145 kHz (4,8kBit/s) max. 30km **C3-phase coupler** Capacitive coupling on 3 phases CENELEC band C **and redundant** band B,or band A	Inductive load (contac-tors): Mount-in anti-interference capacitors at the coils. Please use external interlock, driving shutter or sun blind motors (up / down)!	Resolution per channel: **14bit** Error range: **<0,01%** Sample rate: approx. **6Hz**	64 assignable outputs via LON-bus and/or UNITRO I/O-Modules (recommended **C3 OUT** or work with CC24 or **C3modem** telephone dealers) Serial printer connec-tion (RS 232C)	**C3modem analog:** Voice over the phone. File format for voice entry: MP3 with DTMF acknowledgment. Text messages via SMS and fax. Parameterized via Mini USB interface. Connection of control centers on VDS protocol	Connection in parallel: for redundancy and increased capaci-ty.Maximum of 2 devices for redundan-cy on DIN rail con-nector. Connection in series: No
Special functions	Parameterization: via **Mini USB-interface** and W7-Software, all modules connected with the DIN Rail Bus	Parameterization: via **Mini USB-interface** and W7-Software, all modules connected with the DIN Rail Bus	Parameterization: via **Mini USB-interface** of the Bus coupler and W7-Software e.g. quiescent / operating current, delay time etc.	Parameterization: via **Mini USB-interface** of the Bus coupler and W7-Software e.g. Delta, …	Parameterization: via **Mini USB-interface** and W7-Software: relevant / irrelevant, quiescent / operating current, response delay for each signal	**C3modem GSM:** Functions as C3modem analog but without voice output.	Power failure bypass: > 35ms (120V AC), > 150ms (230VAC)

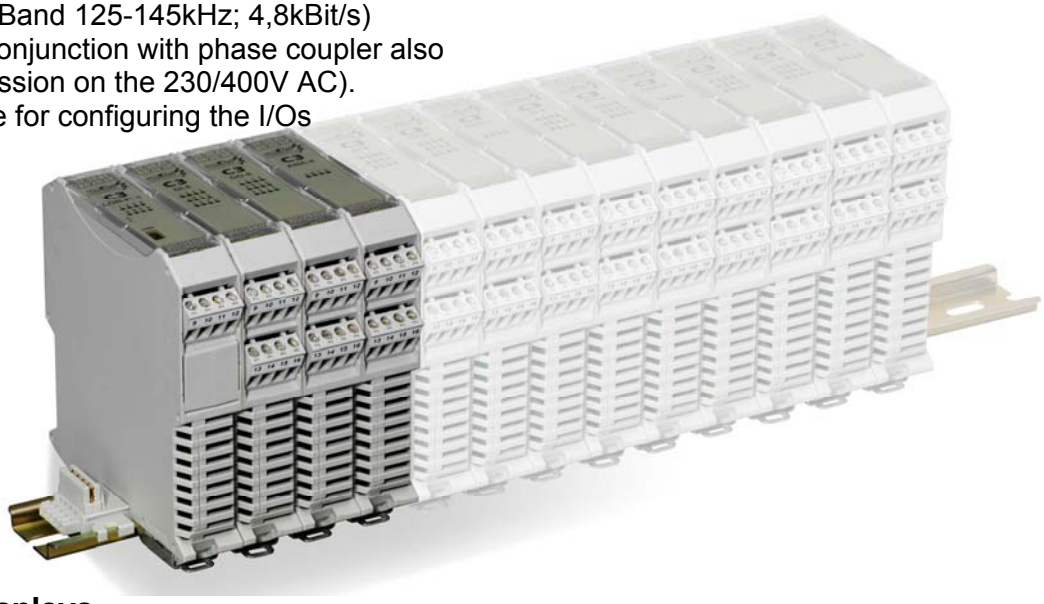
C3 LON-bus coupler

for DIN Rail mounting

Types:

C3-FTX
LON-bus FT-5000 Smart transceiver
for connection of max. 12x C3 I/O modules
to the two wire (twisted pair)
78kbps LON network.
With USB interface for configuring the I/Os

C3-PLT
LON-bus PL-3150 Power Line Smart transceiver
for connection of max. 12x C3 I/O modules
to the two wire (C-Band 125-145kHz; 4,8kBit/s)
LON-network (in conjunction with phase coupler also
power line transmission on the 230/400V AC).
With USB interface for configuring the I/Os



Controls and displays
- Bright LEDs for status display
- Dip-switch for the termination of the rail-Buses

Parameterization of connectable C3 I/O-Module
- Via Mini USB interface and W7 software configurable
- E.g. quiescent / operating current, delay time, etc. of the modules connected

Power supply
- 24V DC ± 10%
- 230V AC with rail power unit with supply via the rail-bus

Mechanical characteristics
- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

Extensions
- Maximum total of 12x C3 I/O modules can be connected per bus coupler (from that max. 2x C3 ana GT).

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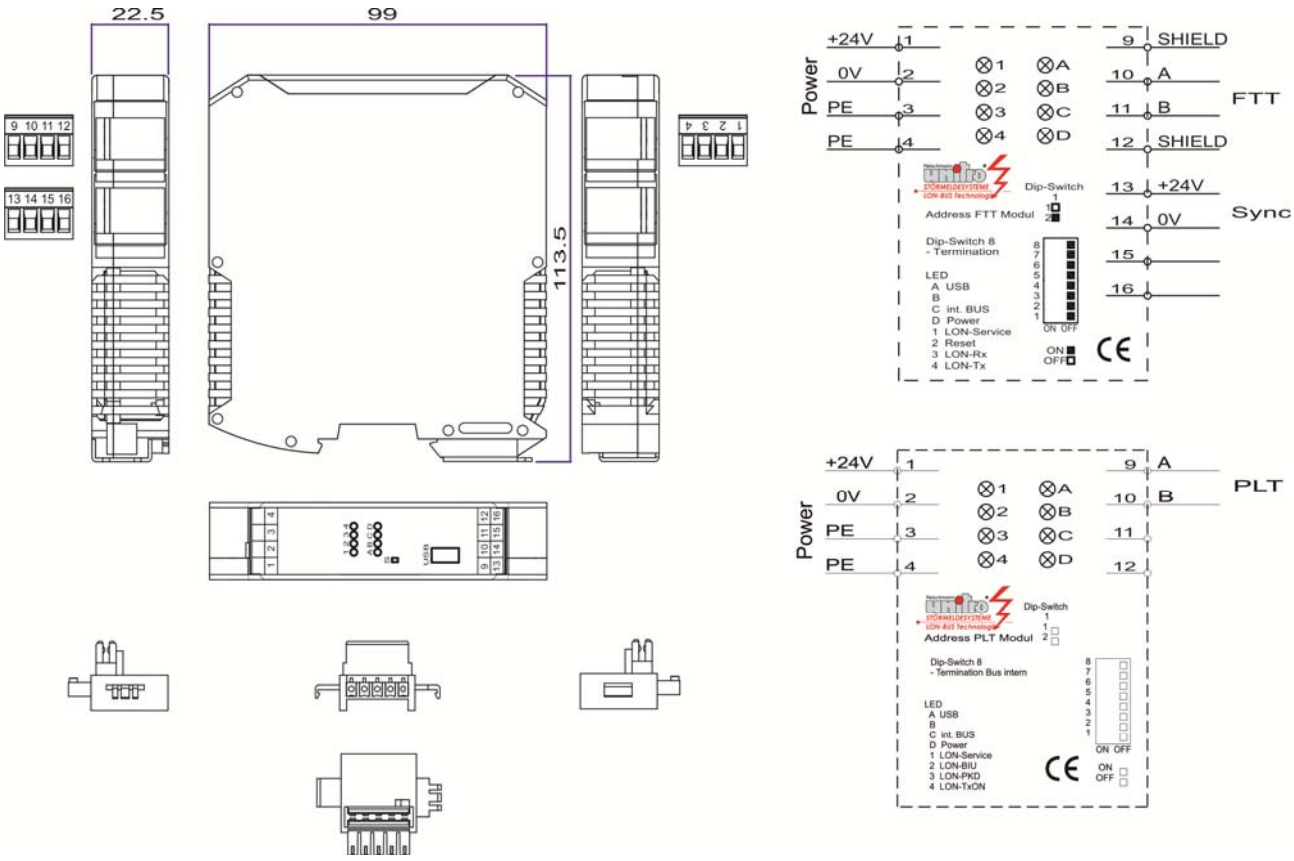
Connection diagram C3 LON



Technical data:

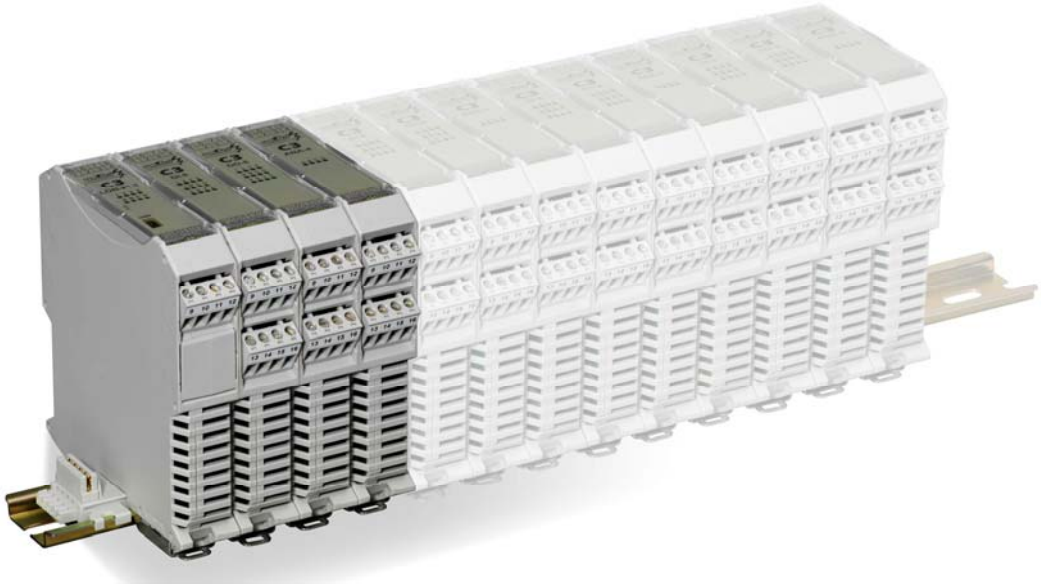
1. Type of construction:
   snap-on plastic housing (polyamide)
   with DIN-rail-Bus 22,5 x 99 x 113,5mm
2. Degree of protection:
   IP20
3. Climatic conditions:
   in accordance with Unitro-Standard
4. Connection:
   screw-type terminals/ plug connection
   max. 2,5mm²
5. Weight:
   approx. 150g
6. Function buttons:
   service button
7. Supply voltage:
   24V DC ± 10%
8. LED-display:
   see connection diagram
9. Power loss 100% ED:
   PLT max. 1W / 7,5W (broadcasting)
   FTX max. 1W
10. Transmission:
    LON FTX: two wire (twisted-pair), 78kbps
    max. 2,7km
    LON-PLT: two wire (C-band 125-145kHz)
    4,8kBit/s, max. 30km
    in conjunction with phase coupler also
    power line transmission on the 230/400V AC
11. Parameterization:
    via **mini USB-interface**, all modules
    connected with the DIN-rail-bus
12. Leakage distances and clearances:
    in accordance with Unitro-Standard
13. EMC, immunity of interference:
    Unitro-Standard,
    in accordance with EN 61000

C3 LON-bus 3 phase coupler PLT

for DIN Rail mounting

Types:

C3-phase coupler
Capacitive coupling on 3 phases
CENELEC band C **and redundant** CENELEC band B,
or CENELEC band A



Function

- Capacitive coupling on 3 phases
  for connection of Echelon PLT power line transceiver

Electrical characteristics

- Supply voltage: L / N max.: 260V AC each phase
- EMC-values: Unitro-Standard in accordance with EN 61000

Mechanical characteristics

- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm
  with DIN-rail-bus
- Degree of protection IP20
- Screw-type terminals, plug connection for connection max. 2,5mm²

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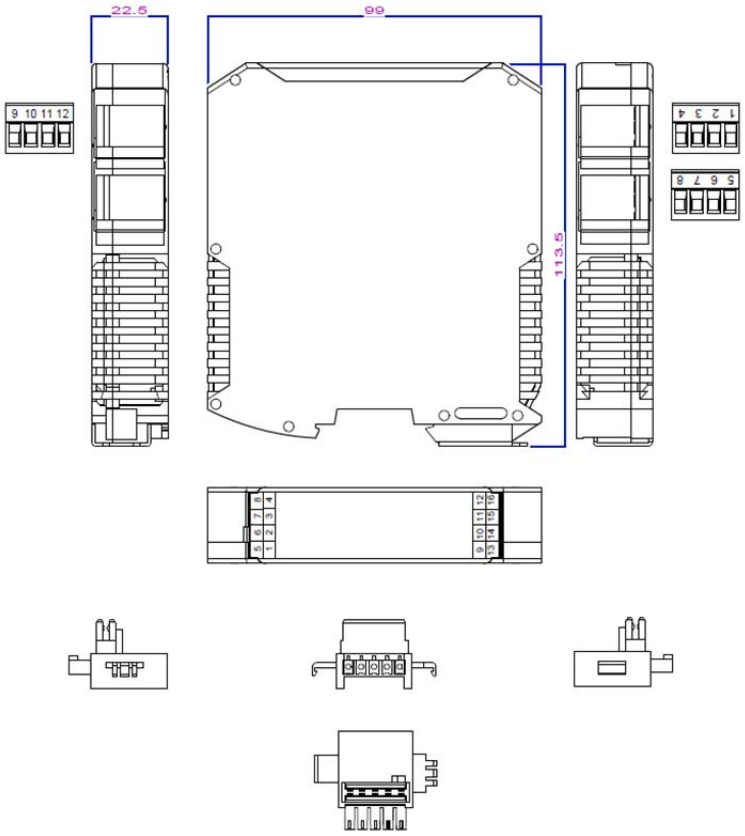
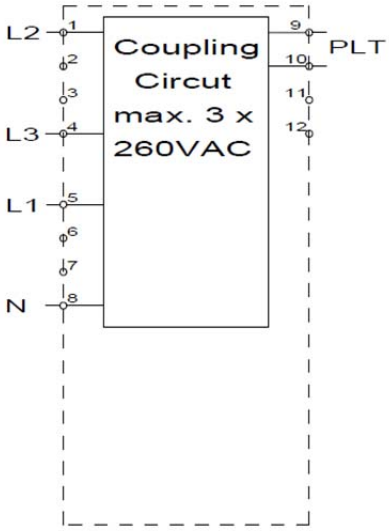
Connection diagram LON-bus 3 phase coupler





Technical data:

1. Type of construction:
   snap-on plastic housing (polyamide)
   with DIN-rail-Bus 22,5 x 99 x 113,5mm
2. Degree of protection:
   IP20
3. Climatic conditions:
   in accordance with Unitro-Standard
4. Connection:
   screw-type terminals/ plug connection
   max. 2,5mm²
5. Weight:
   approx. 150g
6. Supply voltage:
   L / N max. 260V AC each phase
7. Function:
   capacitive coupling on 3 phases
   for connection of Echelon PLT power line transceiver
8. Frequency range:
   CENELEC band C, 125-140 kHz (5,4kBit/s)
   and redundant CENELEC band B, 95-125kHz (5,4kBit/s)
   or CENELEC band A, 9-95kHz (3,6kBit/s)
9. Leakage distances and clearances:
   in accordance with Unitro-Standard
10. EMC, immunity of interference:
    Unitro-Standard,
    in accordance with EN 61000

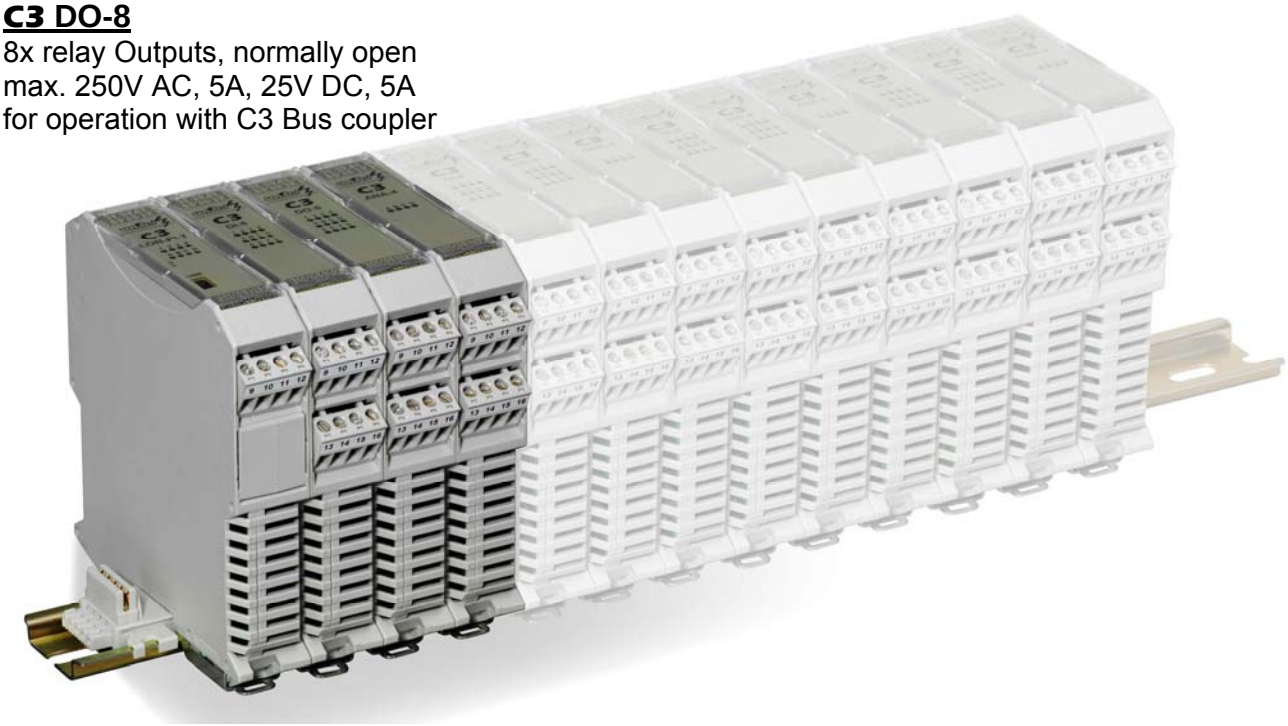
C3 digital IN + OUT

for DIN Rail mounting

Types:

C3 DI-8
8x floating digital Inputs (24V)
for operation with C3 Bus coupler

C3 DO-8
8x relay Outputs, normally open
max. 250V AC, 5A, 25V DC, 5A
for operation with C3 Bus coupler



Controls and displays
- Bright LEDs for status display
- Dip-switch for the termination of the rail-Buses

Parameterization of C 3 I/O modules via the C3 bus coupler
- Via Mini USB interface and W7 software configurable
- E.g. quiescent / operating current, delay time, etc.

Power supply
- via DIN-rail-bus

Mechanical characteristics
- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

Extensions
- Maximum total of 12x C3 I/O modules can be connected per bus coupler (from that max. 2x C3 ana GT)

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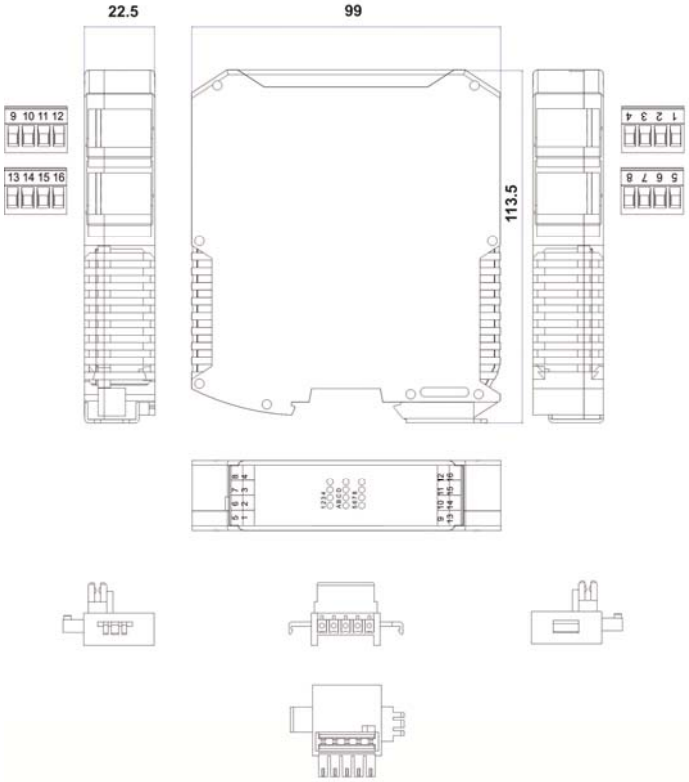
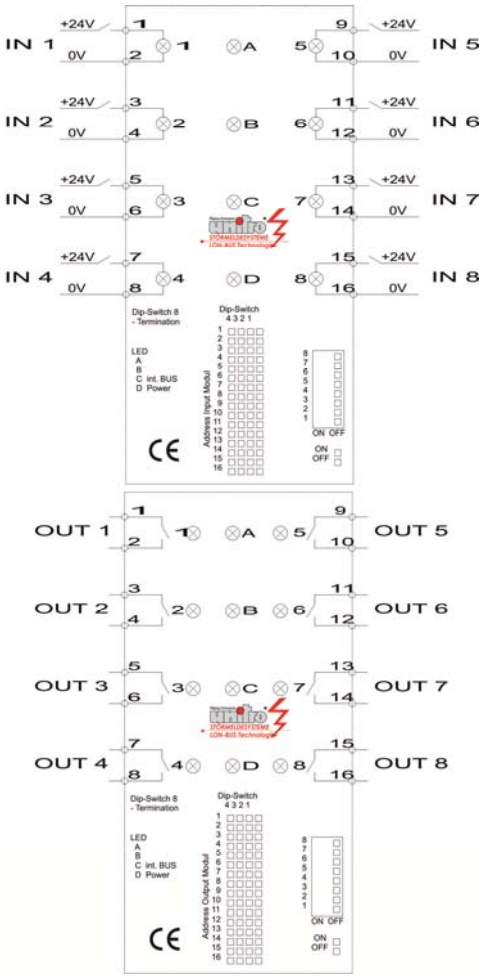
Connection diagram C3 digital 8x IN and 8x OUT





Technical data:

1. Type of construction:
   snap-on plastic housing (polyamide)
   with DIN-rail-Bus 22,5 x 99 x 113,5mm
2. Degree of protection:
   IP20
3. Climatic conditions:
   in accordance with Unitro-Standard
4. Connection:
   screw-type terminals/ plug connection
   max. 2,5mm²
5. Weight:
   approx. 150g
6. Supply voltage:
   via DIN-rail-bus
7. Signal voltage:
   24V DC ± 10%, 5mA per input
8. Response delay:
   25ms
9. Minimum signal duration:
   5ms
10. LED-display:
    see connection diagram
11. Relay outputs:
    normally open: 250V AC, 5A / 25V DC, 5A
    electrical isolation: $2000V_{rms}$
    inductive load (contactors): mount-in anti-interference capacitors at the coils, please use external interlock, driving shutter or sun blind motors (up / down)!
12. Parameterization:
    via **mini USB-interface** on the Bus coupler, connected with the DIN-rail-bus:
    e.g. quiescent / operating current, delay time, etc.
13. Leakage distances and clearances:
    in accordance with Unitro-Standard
14. EMC, immunity of interference:
    Unitro-Standard,
    in accordance with EN 61000

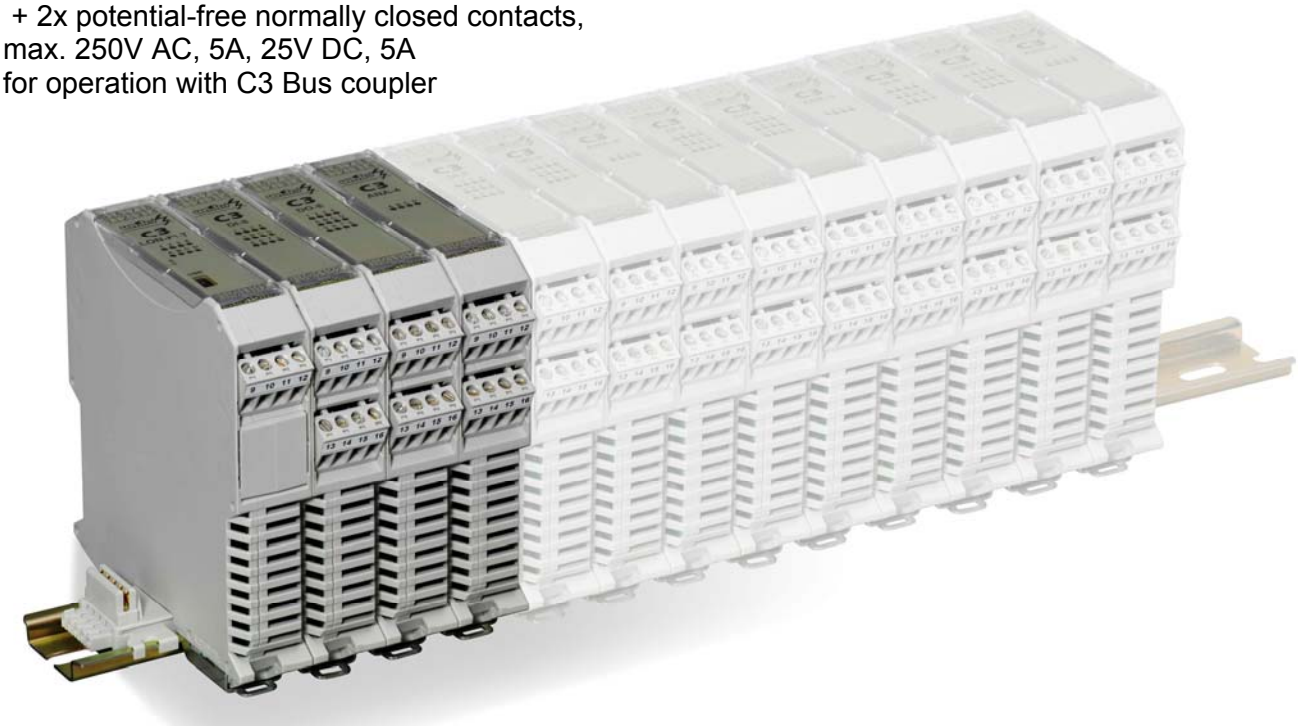
C3 digital OUT with positive guided safety relays

for DIN Rail mounting

Types:

C3 DO-2S

2x **positive guided safety relays** according to EN 50205
each with 2x potential-free normally open contacts
+ 2x potential-free normally closed contacts,
max. 250V AC, 5A, 25V DC, 5A
for operation with C3 Bus coupler



Controls and displays

- Bright LEDs for status display
- Dip-switch for the termination of the rail-Buses

Parameterization of C 3 I/O modules via the C3 bus coupler

- Via Mini USB interface and W7 software configurable
- E.g. quiescent / operating current, delay time, etc.

Power supply

- via DIN-rail-bus

Mechanical characteristics

- Compact Snap-on plastic housing (polyamide) 45 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

Extensions

- Maximum total of 12x C3 I/O modules can be connected per bus coupler (from that max. 2x C3 ana GT)

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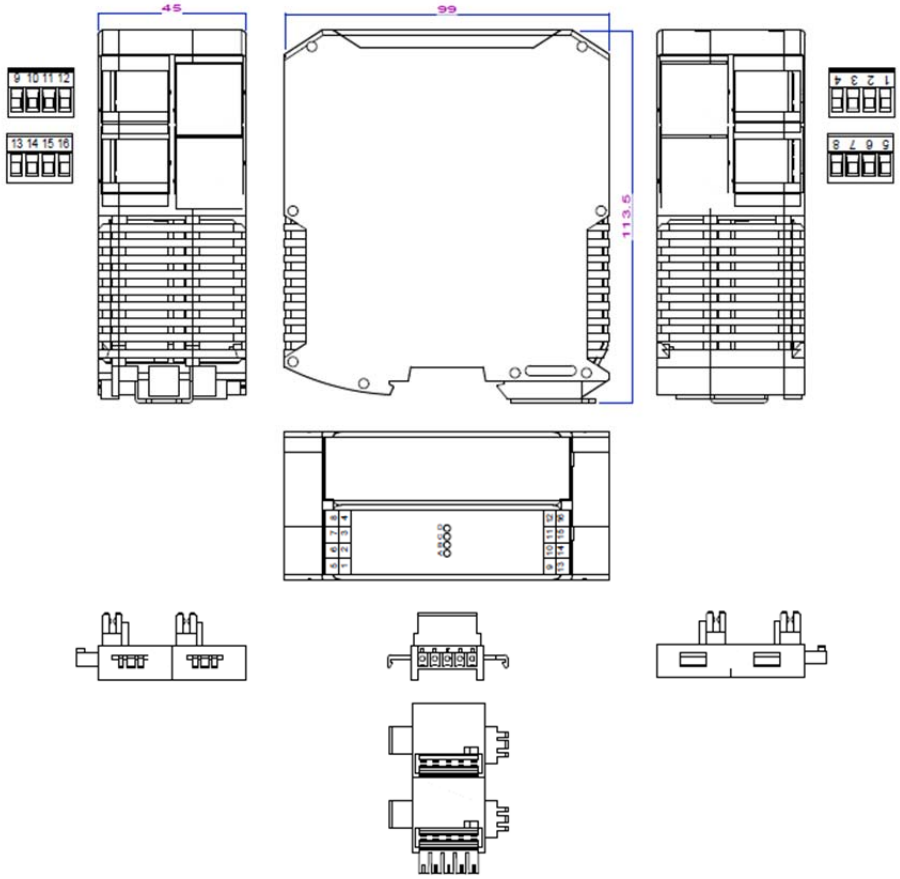
Connection diagram C3 digital OUT 2S



Technical data:

1. Type of construction:
   snap-on plastic housing (polyamide)
   with DIN-rail-Bus 45 x 99 x 113,5mm
2. Degree of protection:
   IP20
3. Climatic conditions:
   in accordance with Unitro-Standard
4. Connection:
   screw-type terminals/ plug connection
   max. 2,5mm²
5. Weight:
   approx. 150g
6. Supply voltage:
   via DIN-rail-bus
7. LED-display:
   see connection diagram
8. Relay outputs:
   2x **positive guided safety relays** according to EN 50205 each with 2x potential-free normally open contacts
   + 2x potential-free normally closed contacts, max. 250V AC, 5A, 25V DC, 5A
9. Parameterization:
   via **mini USB-interface** on the Bus coupler, connected with the DIN-rail-bus:
   e.g. quiescent / operating current,
   delay time, etc.
10. Leakage distances and clearances:
    in accordance with Unitro-Standard
11. EMC, immunity of interference:
    Unitro-Standard,
    in accordance with EN 61000

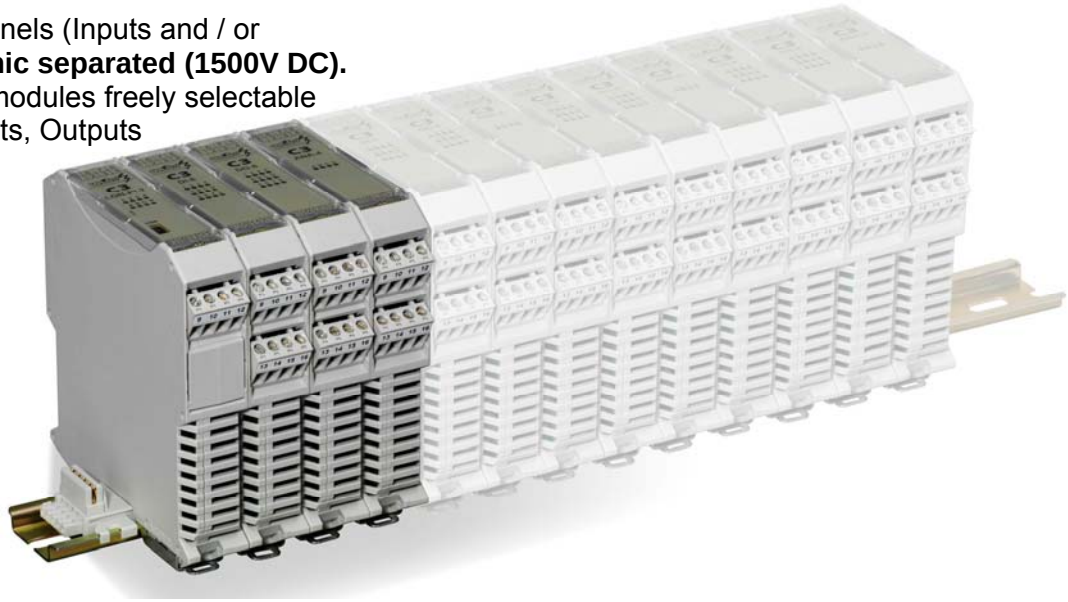
C3 analogue IN + OUT

for DIN Rail mounting

Types:

C3-ANA-4 GT

4 analogue channels (Inputs and / or Outputs), **galvanic separated (1500V DC).**
With pluggable modules freely selectable the types of Inputs, Outputs



Controls and displays

- Bright LEDs for status display
- Dip-switch for the termination of the rail-Buses

Parameterization of C 3 I/O modules via the C3 bus coupler

- Via Mini USB interface and W7 software configurable
- E.g. Delta, …

Power supply

- via DIN-rail-bus

Electrical characteristics

- 4 analogue channels, **galvanic separated (1500V DC),** with pluggable modules freely selectable:

Inputs:	0/4-20mA	input resistance:	56Ω
	0-10V	input resistance:	1MΩ
	PT100	2 wire / 3 wire / 4 wire	
Outputs:	0/4-20mA	max. 400Ω	
	0-10V	min. 1kΩ, max. 10 EVG (Osram Quicktronic)	

- Resolution **14bit**, sample rate: approx. **6Hz**, error range: **< 0,01%**

Mechanical characteristics

- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

Extensions

- Maximum total of 12x C3 I/O modules can be connected per bus coupler (from that max. 2x C3 ana GT).

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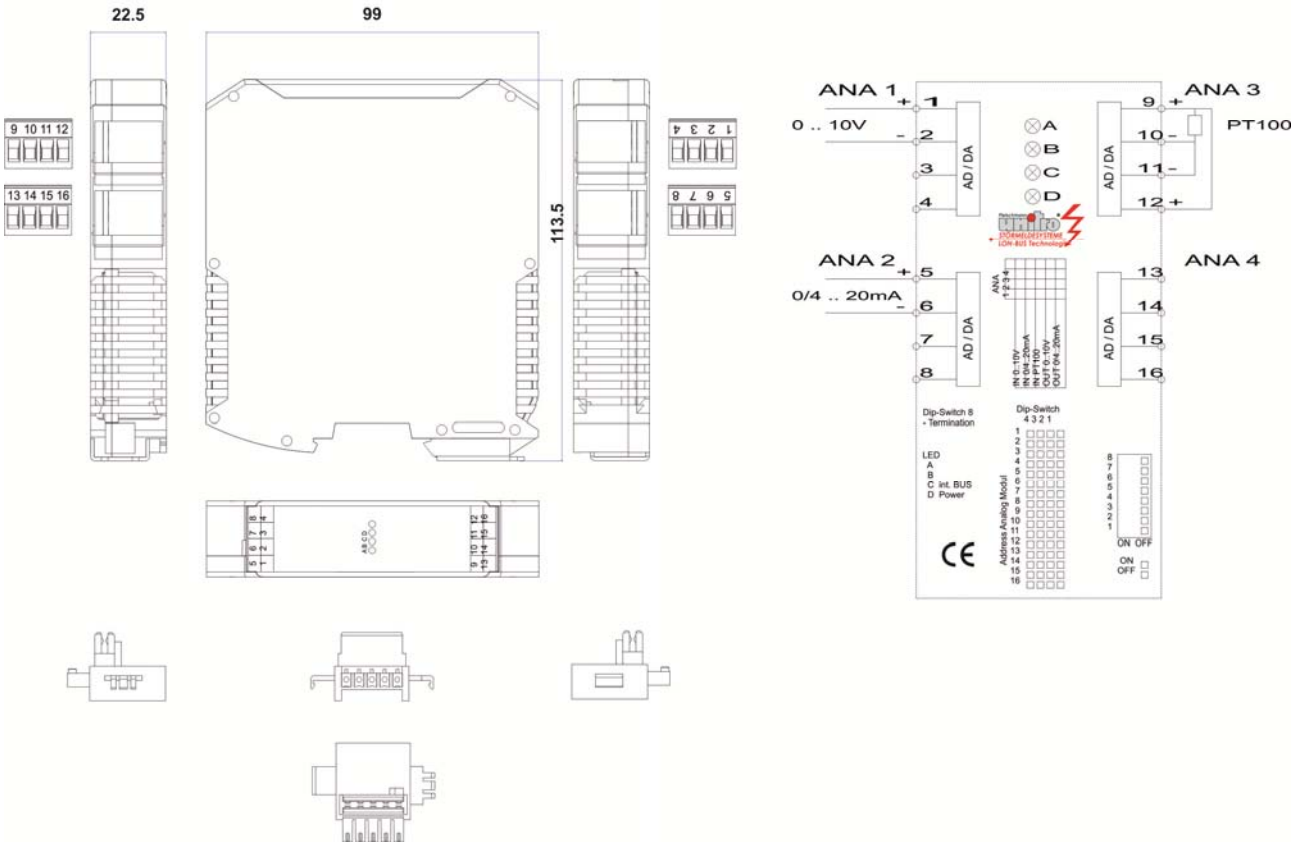
Connection diagram C3 analogue GT



Technical data:

1. Type of construction:
   snap-on plastic housing (polyamide)
   with DIN-rail-Bus 22,5 x 99 x 113,5mm
2. Degree of protection:
   IP20
3. Climatic conditions:
   in accordance with Unitro-Standard
4. Connection:
   screw-type terminals/ plug connection
   max. 2,5mm²
5. Weight:
   approx. 150g
6. Supply voltage:
   via DIN-rail-bus
7. Analogue channels (plug-in cards):
   4 analogue channels, **galvanic separated (1500V DC),** with pluggable modules freely selectable:

inputs:	0/4-20mA	input resistance: 56Ω
	0-10V	input resistance: 1MΩ
	PT100	2 wire / 3 wire / 4 wire
outputs:	0/4-20mA	max. 400Ω
	0-10V	min. 1kΩ, max. 10 EVG

8. Resolution per channel:
   14bit
9. Error range:
   < 0,01%
10. Sample rate:
    approx. 6Hz
11. Parameterization:
    via **mini USB-interface** on the Bus coupler, connected with the DIN-rail-bus: e.g. Delta, …
12. Leakage distances and clearances:
    in accordance with Unitro-Standard
13. EMC, immunity of interference:
    Unitro-Standard,
    in accordance with EN 61000

C3text

the dimension for plain text annunciator systems

Types:

C3text
plain text display, 320 messages with 4x 40 characters per message, integrated horn, RS232 printer connector, LON-bus FT-5000 Smart transceiver with USB interface for configuring

Controls and displays
- LCD-display with back-light, 4x 40 characters, 5mm high, from that 1x 40 characters to display date, time, message status
- Front buttons for acknowledge the horn and function selection
- Rear LED status display (e.g. LON, DCF; …)

Parameterization
- Via Mini USB interface and Windows XP Pro, W7 software configurable
- Relevant / irrelevant, quiescent / operating current, response delay for each signal
- LON-bus self-binding address assignment (in conjunction with appropriate LON-bus modules)

Supply voltage
- Wide-range power supplies with **85-265V AC / 85-250V DC** or **14-28V AC / 19-36V DC**, 100mA

Electrical characteristics
- Inputs modular and distributed expansion possible in steps of 16 or 24 with UNITRO I/O-Modules (recommended **C3** or MVL 24/0)
- Group alarm output, change over contact, max. 250V AC, 5A, 25V DC, 5A
- Equipment fault output, change over contact max. 250V AC, 5A, 25V DC, 5A
- Horn output, normally open, max. 250V AC, 5A, 25V DC, 5A
- Serial Printer Interface (RS 232C)
- 64 assignable outputs via LON-bus and/or UNITRO I/O-Modules (recommended **C3 OUT** or work with CC24 or **C3modem** telephone dealers)
- Battery backed real time clock (10 years)

Mechanical characteristics
- Control panel bay 288 x 72 x 127mm
- Screw-type terminals, plug connection with screw-type flange for connection max. 2,5mm²

Option
- Antenna for built-in DCF77 clock

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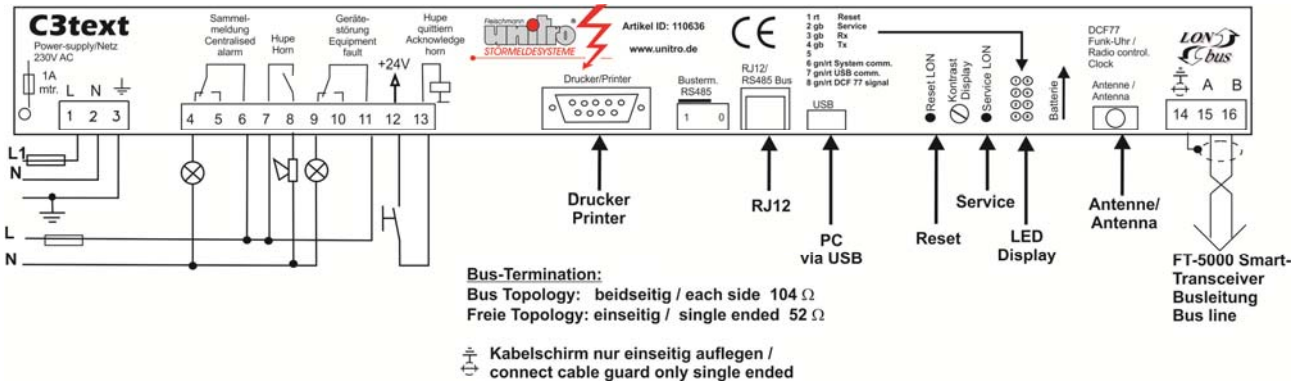
Connection diagram **C3text** (LON)



Technical data:

1. Type of construction:
   control panel bay 288 x 72 x 127mm
   (cutting for installation 283 x 62mm)
2. Weight:
   approx. 750g
3. Degree of protection:
   front: IP54
   bay: IP20
4. Climatic conditions:
   in accordance with Unitro-Standard
5. Connection:
   screw-type terminals/ plug connection
   with screw-type flange max. 2,5mm²
6. Bus connection:
   2 wire LON-bus FT-5000 Smart transceiver
   with screw plug-in terminals, max. 2,7km
7. Supply voltage:
   24V AC/DC **(=14-28V AC, 19-36V DC)**,
   230V AC/DC **(= 85-265V AC, 85-250V DC)**,
   100mA
8. Real time clock:
   battery backup (max. 10 years)
   DCF77 radio clock with optional antenna
9. Data retention in the absence of power:
   battery backup (max. 10 years)
10. Printer connector:
    9-pin Sub-D socket RS232
11. Rear LED status display:
    Status of e.g. LON-bus, DCF-status etc.
12. Parameterization:
    via **mini USB-interface** e.g. self-binding,
    relevant / irrelevant, quiescent / operating current,
    response delay (from 1s to 18h
    (see grid)) and text input
13. Operating modes:
    new value message with horn control
    acknowledgement of reports
    message comes = +
    message is acknowledged = Q
    message goes unacknowledged = -
    message goes acknowledged = message goes
14. Group messages:
    64 output contact (group messages)
    arbitrarily assigned the 320 messages
    issue e.g. about 4x LM 0/16R or via LON-bus
15. Power loss:
    max. 6W
16. Relay outputs:
    max. 250V AC, 5A, 25V DC, 5A
17. Leakage distances and clearances:
    in accordance with Unitro-Standard
18. EMC, immunity of interference:
    Unitro-Standard,
    in accordance with EN 61000

C3 Main power unit

Types:

C3 Main power unit
DIN rail power supply unit,
primary-switched mode,
slim design,
Output: 24V DC / 1,5A
Input: 100V AC – 240V AC

Function

- C3 modules can be supplied with 24 DC using the optional DIN rail connectors.
- The electronic short-circuit and idling-proof device is connected to single-phase AC networks with nominal voltages of 100V AC to 240V AC or to two of the phase conductors of three-phase networks with a linked voltage of this value. In the event of a malfunction, the output voltage is limited to 30V DC.
- Operating voltage display LED green

Input data

- Nominal input voltage 100V AC to 240V AC, AC input voltage range 85V AC to 264V AC, approx. 0,75A
- AC frequency range 45Hz to 65Hz
- Power failure bypass > 35ms (120V AC), > 150ms (230V AC)

Output data

- Nominal output voltage 24 V DC ±1 %, 1,5 A (-25 °C ... 60 °C)

Mechanical characteristics

- Compact Snap-on plastic housing 35x99x95mm (WxHxD) with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

Extensions

- Connection in parallel for redundancy and increased capacity, maximum of 2 devices for redundancy on DIN rail connector

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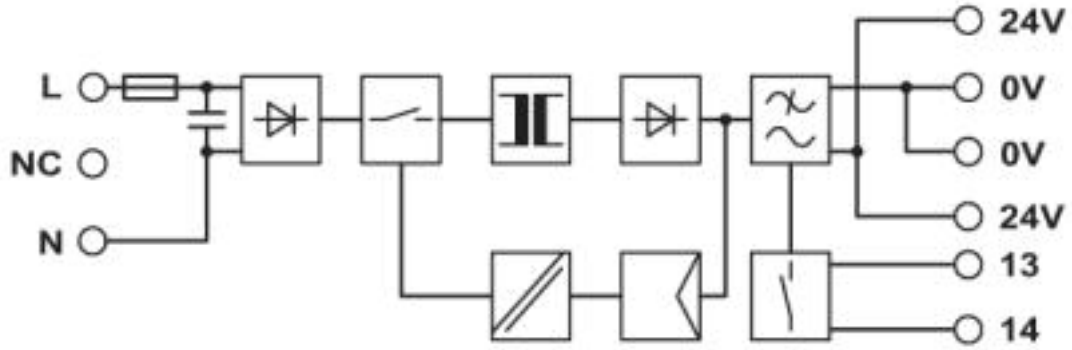
Block diagram C3 Main power unit



Technical data:

1. Type of construction:
   snap-on plastic housing (polyamide)
   with DIN-rail-Bus 35x99x95mm (WxHxD)
2. Degree of protection:
   IP20
3. Climatic conditions:
   ambient temperature (operation):
   -25°C to 70°C (> 60°C derating)
   ambient temperature (storage/transport):
   -40°C to 85°C
   max. permissible relative humidity (operation):
   ≤ 95% (at 25°C, no condensation)
4. Connection:
   screw-type terminals/ plug connection
   max. 2,5mm²
5. Weight:
   approx. 250g
6. Supply voltage:
   nominal input voltage: 100V AC-240V AC
   AC input voltage range: 85V AC-264V AC
   AC frequency range AC 45Hz-65Hz
7. Current consumption:
   approx. 0,75A (120V AC), 0,45A (230V AC)
8. Inrush surge current:
   < 15A (0,6A2s)
9. Power failure bypass:
   > 35ms (120V AC), > 150ms (230V AC)
10. Input fuse:
    3,15A (slow-blow, internal)
11. Nominal output voltage:
    24V DC ±1%
12. Output current:
    1,5A (-25°C-60°C), 2A
    (with POWER BOOST, -25°C-40°C permanent)
13. Connection in parallel:
    for redundancy and increased capacity, maximum of 2 devices for redundancy on DIN rail connector
14. Connection in series:
    no
15. Max. capacitive load:
    unlimited
16. Power loss:
    dissipation idling max. 1,5W,
    nominal load max. 6,5W
17. Leakage distances and clearances:
    in accordance with Unitro-Standard
18. EMC, immunity of interference:
    Unitro-Standard,
    in accordance with EN 61000