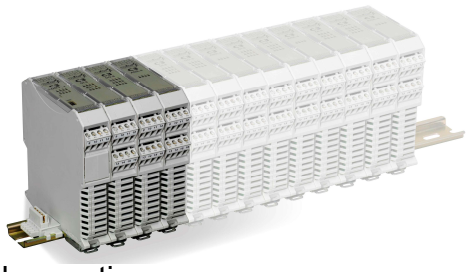
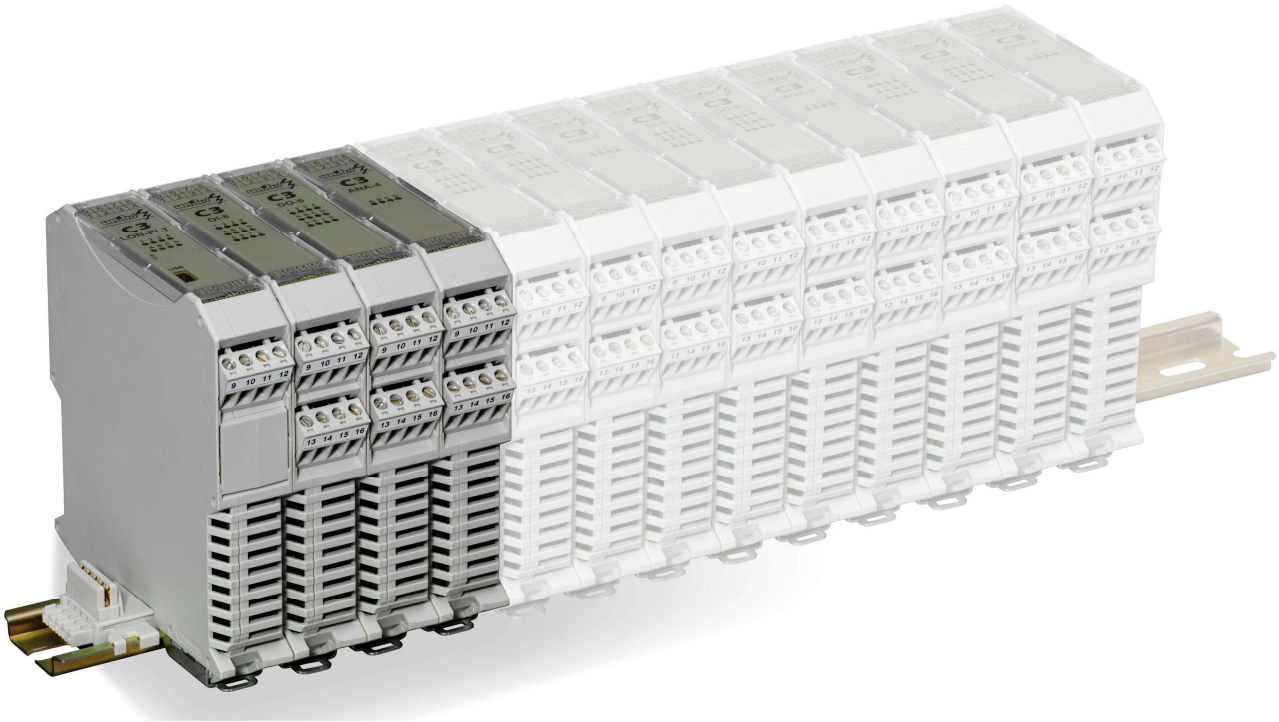
C3 Snap-ON Alarm Modules



Head office: Gaildorfer Str. 15 D-71522 Backnang Tel.: +49 (0)7191/141-0 Fax: +49 (0)7191/141-299
Office Radolfzell: Westendstr. 3 D-78315 Radolfzell Tel.: +49 (0)7191/141-150 Fax: +49 (0)7191/141-299 info@unitro.de www.unitro.de


17/02/2012 16:06:36 MNR:002 Q Anz:001
Das neue intelligente Meldesystem
integriertes Alarmmanagement
320 Eingänge, 64
ENTER
C3text
C3
LON-PLT
C3
DI-8
C3
DO-8
C3
ANA-4
USB



Overview Bus-coupler

General data:

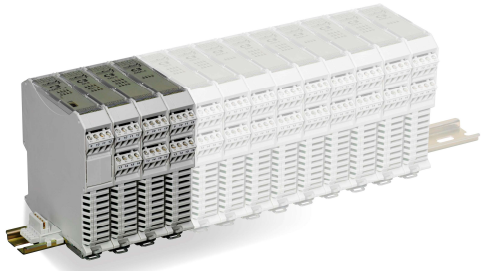
Creepage distances: Unitro-Standard
Degree of protection: IP20
Climatic conditions: Unitro-Standard
EMC-values: Unitro-Standard
Status indication with LED

Types	C3 Ethernet-Bus coupler	C3 LON-Bus and 3 phase coupler PLT r	C3 RS coupler (RS485 or Modbus RS485)				C3 Main power unit
Dimensions (w x h x d) in mm	22,5x99x113,5	22,5x99x113,5	22,5x99x113,5				35x99x95
Weight approx.	150g	150g	150g				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
Power supply	24V DC ± 10%	24V DC ± 10%	24V DC ± 10%				100 -240V AC
Inputs							
Outputs			RS232 printer interface				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	**RS485** coupler, option **Modbus RS485** and option **DCF77 time synchronization**				Connection in parallel: for redundancy and increased capacity.Maximum of 2 devices for redundancy on DIN rail connector. 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** and W7-Software, all modules connected with the DIN Rail Bus				Power failure bypass: > 35ms (120V AC), > 150ms (230VAC)

Overview extension-modules

General data:

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



Types	**C3 digital** IN + OUT	**C3 analog GT** IN + OUT	**C3text** plain text-display	**C3modem** telephone dealer (remotely adjustable)			
Dimensions (w x h x d) in mm	22,5x99x113,5 45x99x113,5 (DO-2S)	22,5x99x113,5 45x99x113,5 (DO-2S)	288 x 72 x 127 Cutting for installation 283 x 62	22,5x99x113,5			
Weight approx.	150g	150g	750g	150g			
Connection	Screw-type terminals/ plug connection max. 2,5mm²	Screw-type terminals/ plug connection max. 2,5mm²	Screw-type terminals/plug connection with screw-type flange max. 2,5mm²	3.5 mm² jack for audio OUT RJ11 socket for telephone connection			
Power supply	via DIN rail-bus	via DIN rail-bus	**85-265V AC /** **85-250V DC** or **14-28V AC /** **19-36V DC**, 100mA	via DIN rail-bus			
Inputs	**C3 DI-8:** 8x floating 24V DC ± 10%, 5mA per input. Response delay: 25ms, Minimum signal duration: 5ms **C3 DI0-4/4:** 4x floating inputs (24V internal supplied)	4 analogue channels **galvanic separated (1500V DC),** with pluggable modules freely selectable: **0/4-20mA** input resistance: 56Ω **0-10V** input resistance:1MΩ **PT100** 2 wire / 3 wire / 4 wire	320 messages modular and distributed expansion possible in steps of 24 with UNITRO I/O-Modules (recommended **C3** or MVL 24/0)	**64 signal lines** with I/O modules, for example **C3-IN** or **C3text** (see, eg adjustable parameters **C3text**)			
Outputs	**C3 DO-8:** 8x Normally open contact **C3 DIO-4/4:** x Normally open contact **or** zero-voltage switching 250V AC, 2A **or** optocoupler outputs 24V DC, 2A **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 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	**64 outputs** with I/O modules, for example **C3 OUT** or **C3text** display signal lines which are selected but not yet acknowledged. Signal line 64 can be used to **monitor the trunk**. Audio OUT to control the message texts.			
Remarks	Inductive load (contactors): 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 connection (RS 232C)	**C3modem analog:** Voice over the phone. **Text-to-Speech (TTS)** voice synthesis and **DTMF acknowledgment**. Configurable via **mini USB interface** or remotely adjustable via dial-in 6 connection profiles, each with 4 numbers			
Special functions	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:or **LNS-PlugIn** (i.p.) relevant / irrelevant, quiescent / operating current, response delay for each signal	**C3modem GSM:** Similar functionality as **C3modem** analog **C3** coupler (eg **C3-FTX**) required for operation!			

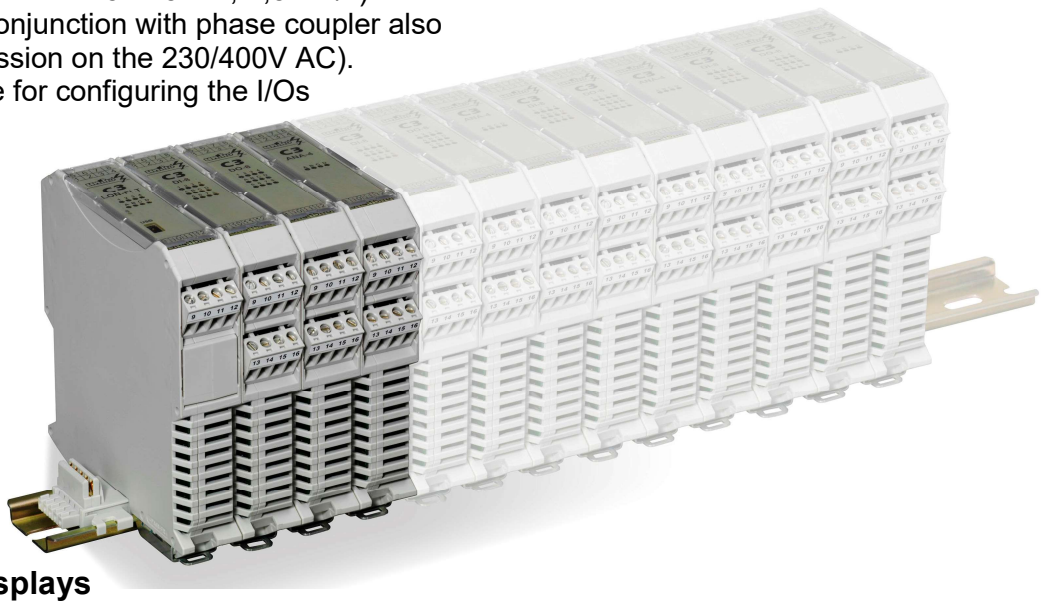
C3 LON-bus coupler

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

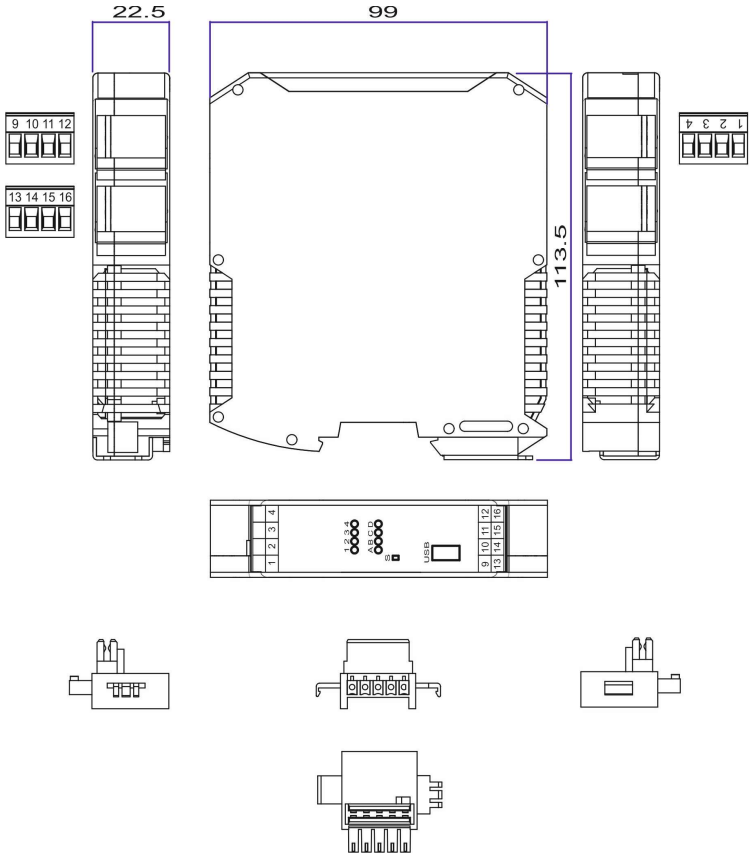
Parameterization of connectable C3 I/O-Module
- Via Mini USB interface and W7 software configurable
- E.g. quiescent / operating current, delay time, etc. of the modules connected

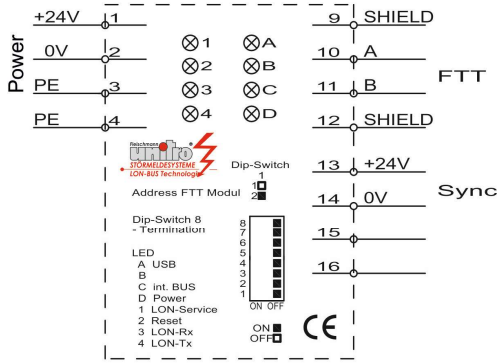
Power supply
- 24V DC ± 10%
- 230V AC with rail power unit with supply via the rail-bus

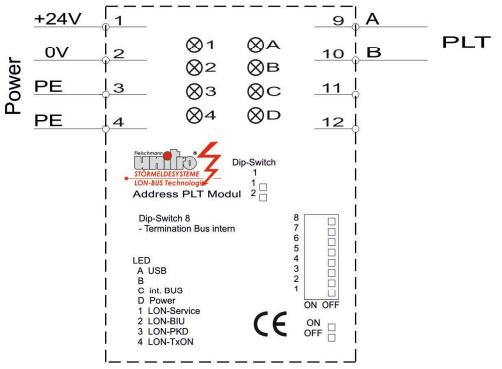
Mechanical characteristics
- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

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

Connection diagram C3 LON







Technical data:

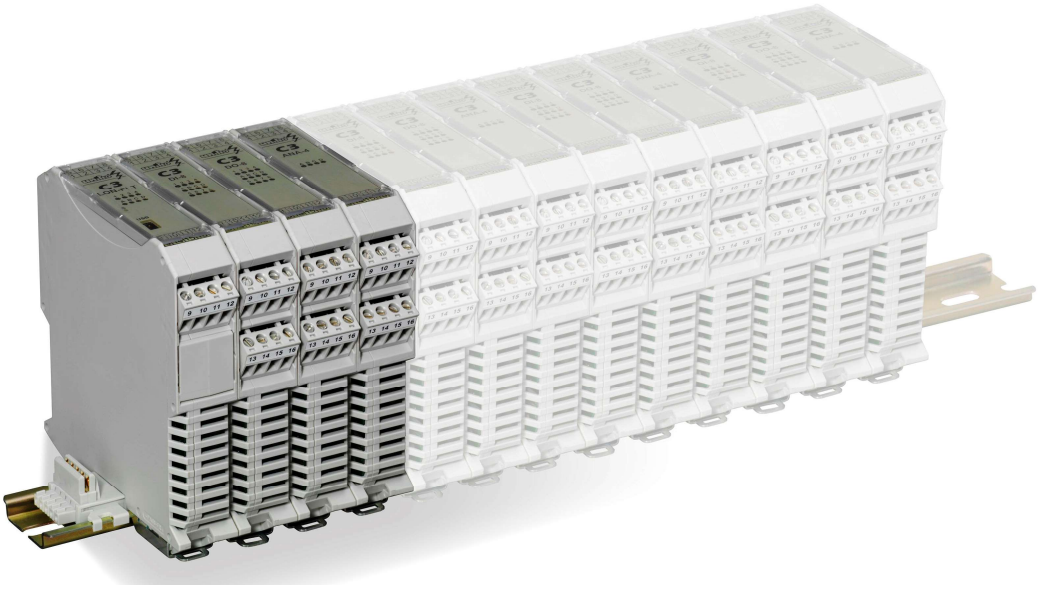
1. Type of construction:
   snap-on plastic housing (polyamide)
   with DIN-rail-Bus 22,5 x 99 x 113,5mm
2. Degree of protection:
   IP20
3. Climatic conditions:
   in accordance with Unitro-Standard
4. Connection:
   screw-type terminals/ plug connection
   max. 2,5mm²
5. Weight:
   approx. 150g
6. 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

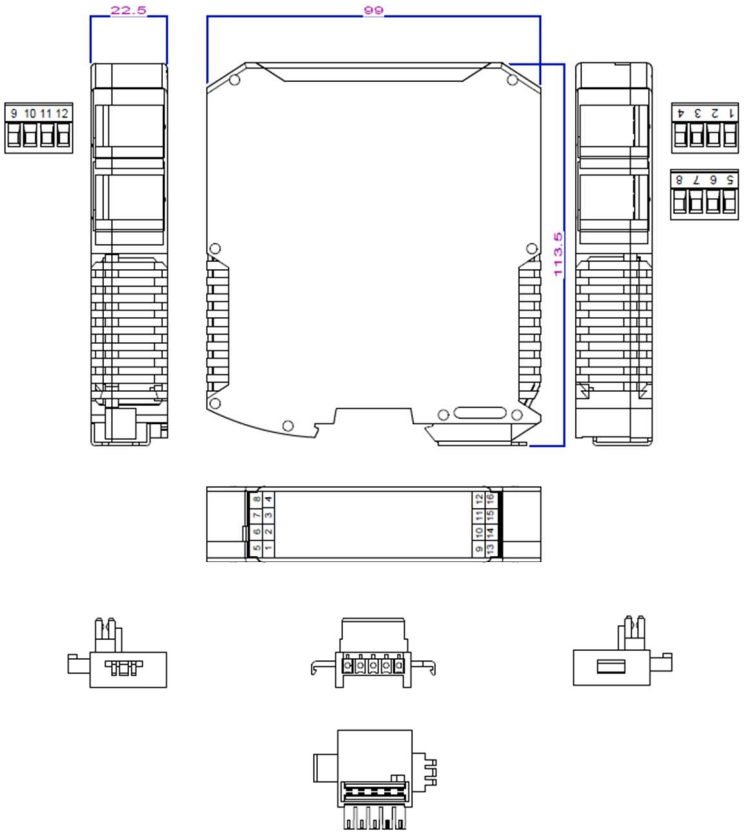
- Supply voltage: L / N max.: 260V AC each phase
- EMC-values: Unitro-Standard in accordance with EN 61000

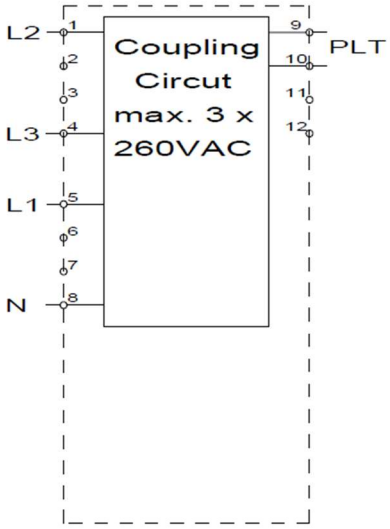
Mechanical characteristics

- 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

Head office: Gaildorfer Str. 15 D-71522 Backnang Tel.: +49 (0)7191/141-0 Fax: +49 (0)7191/141-299
Office Radolfzell: Westendstr. 3 D-78315 Radolfzell Tel.: +49 (0)7191/141-150 Fax: +49 (0)7191/141-299 info@unitro.de www.unitro.de

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

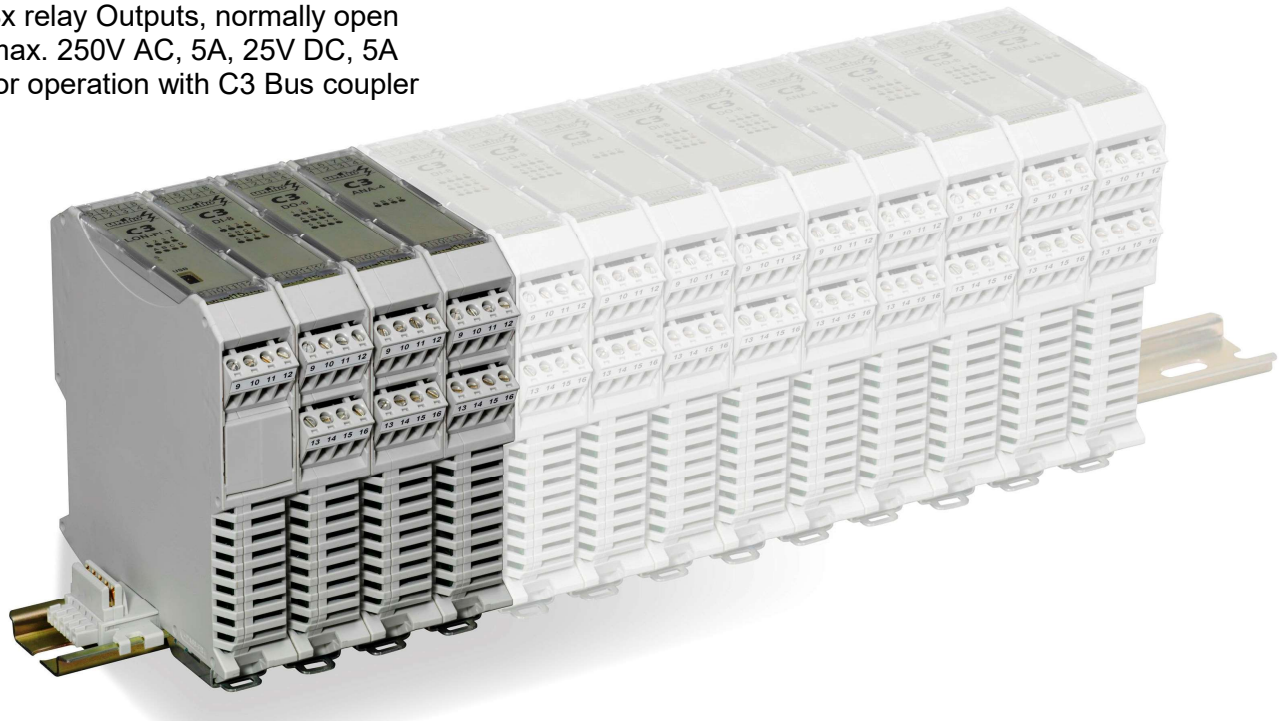
C3 digital IN + OUT

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.

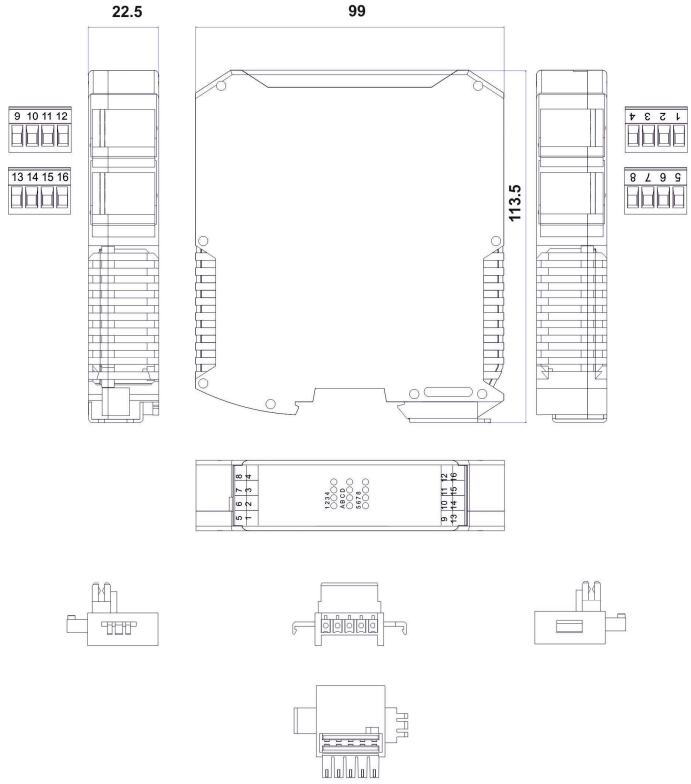
Power supply
- Via DIN-rail-bus

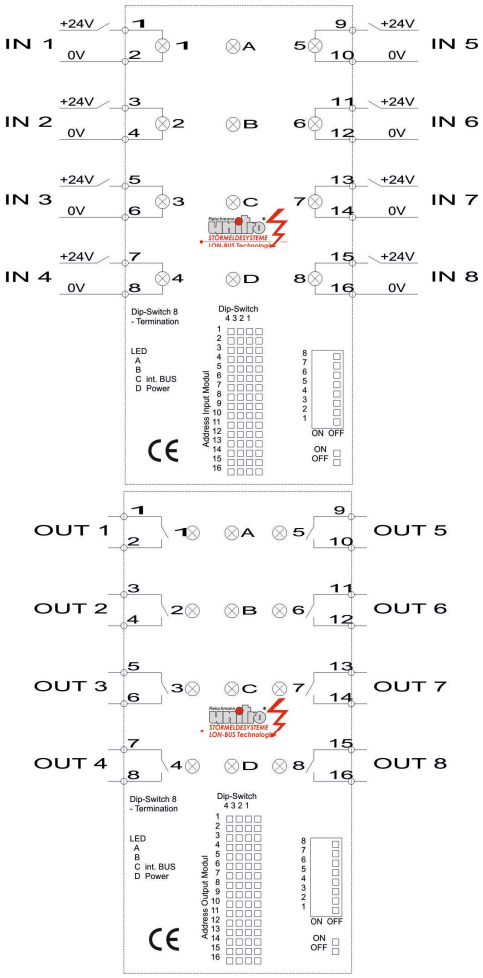
Mechanical characteristics
- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

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

Head office: Gaildorfer Str. 15 D-71522 Backnang Tel.: +49 (0)7191/141-0 Fax: +49 (0)7191/141-299
Office Radolfzell: Westendstr. 3 D-78315 Radolfzell Tel.: +49 (0)7191/141-150 Fax: +49 (0)7191/141-299 info@unitro.de www.unitro.de

Connection diagram C3 digital 8x IN and 8x OUT





Technical data:

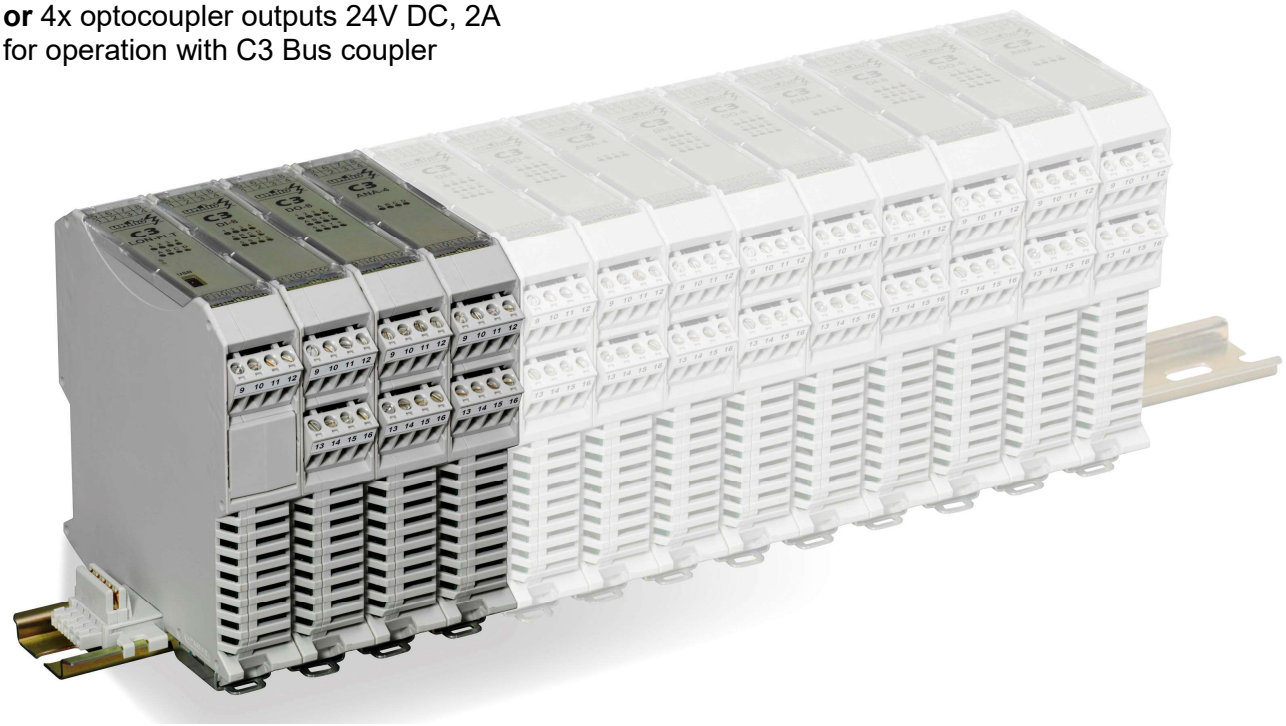
1. Type of construction:
   snap-on plastic housing (polyamide)
   with DIN-rail-Bus 22,5 x 99 x 113,5mm
2. Degree of protection:
   IP20
3. Climatic conditions:
   in accordance with Unitro-Standard
4. Connection:
   screw-type terminals/ plug connection
   max. 2,5mm²
5. Weight:
   approx. 150g
6. 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 Combined block IN + OUT

for DIN Rail mounting

Types:

C3 DIO -4/4
4x floating digital Inputs (internal 24V)
and 4x relay Outputs, normally open
max. 250V AC, 5A, 25V DC, 5A
or 4x zero-voltage switching 250V AC, 2A
or 4x optocoupler outputs 24V DC, 2A
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.

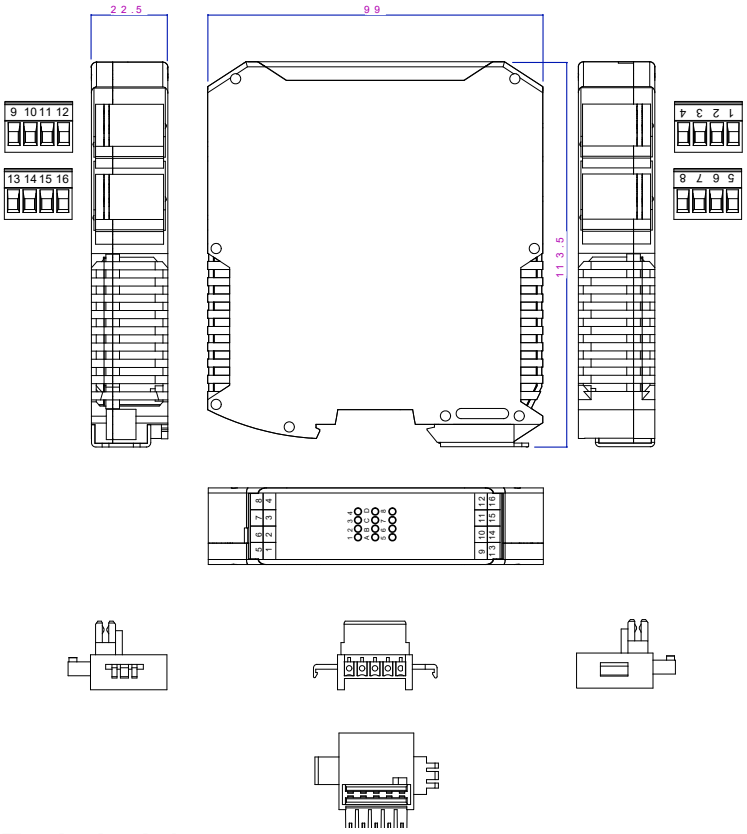
Power supply
- Via DIN-rail-bus

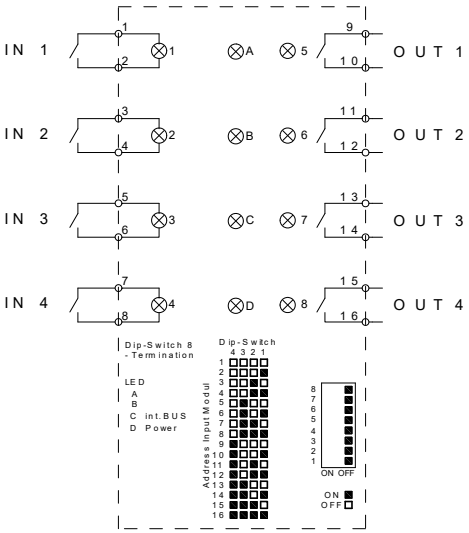
Mechanical characteristics
- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

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

Head office: Gaildorfer Str. 15 D-71522 Backnang Tel.: +49 (0)7191/141-0 Fax: +49 (0)7191/141-299
Office Radolfzell: Westendstr. 3 D-78315 Radolfzell Tel.: +49 (0)7191/141-150 Fax: +49 (0)7191/141-299 info@unitro.de www.unitro.de

Connection diagram C3 digital Combined block IN+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:
   internal 24V DC floating contacts
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)!
    or 4x zero-voltage switching 250V AC, 2A
    or 4x optocoupler outputs 24V DC, 2A
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

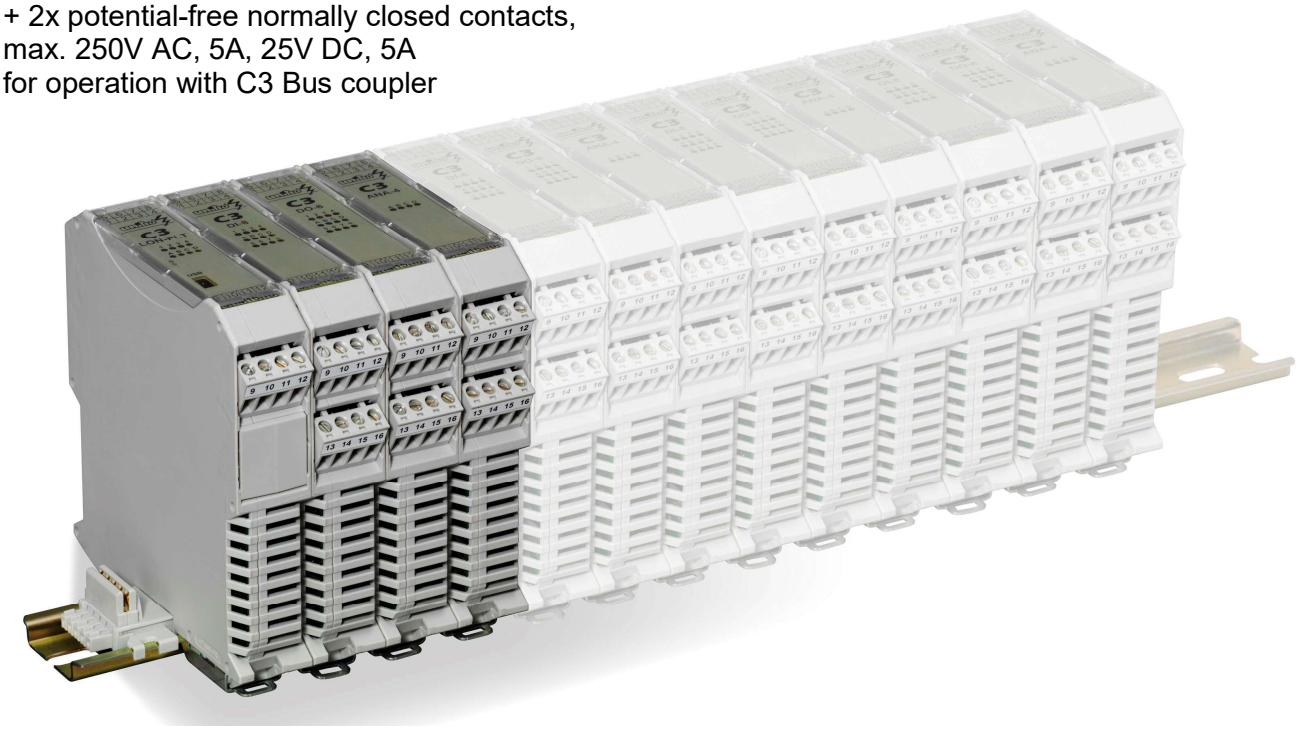
C3 digital OUT with positive guided safety relays

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

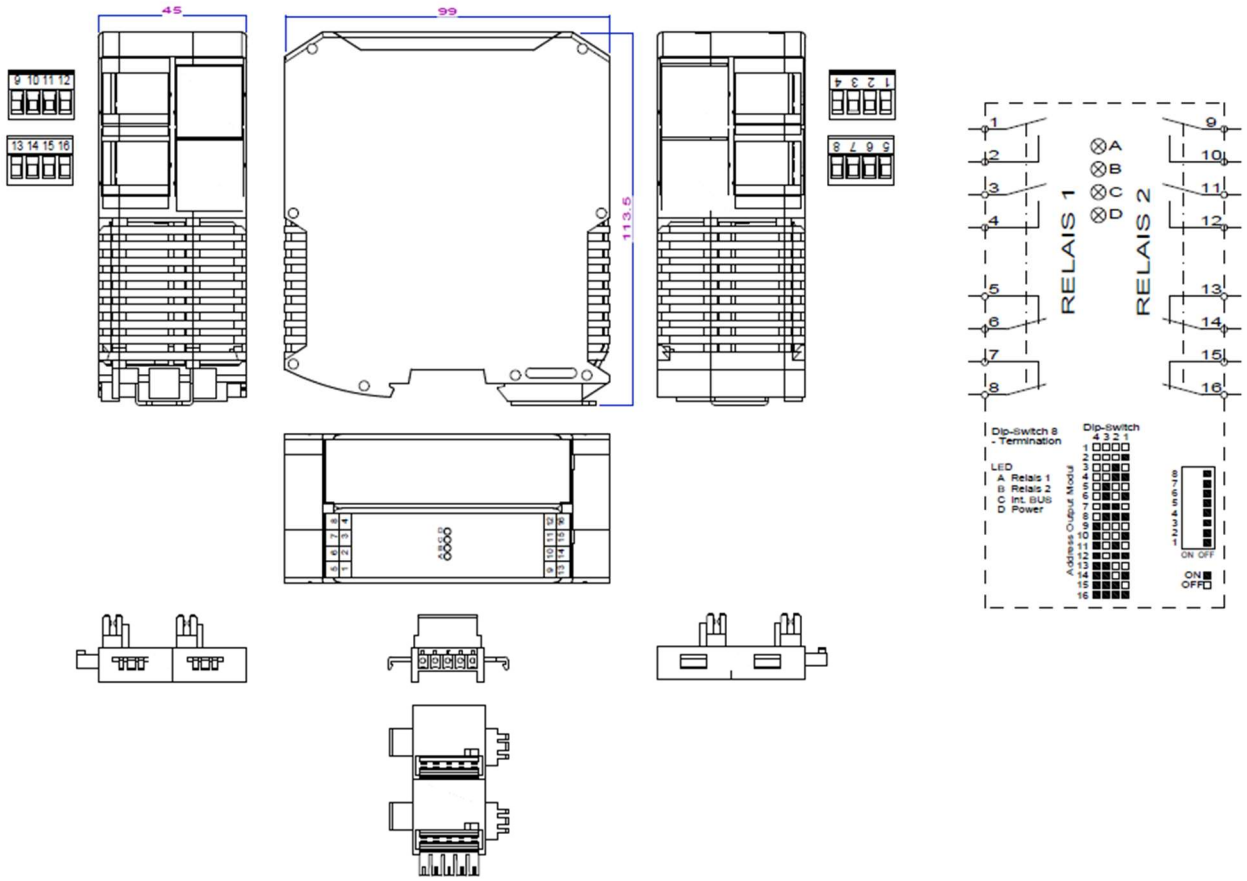
- Compact Snap-on plastic housing (polyamide) 45 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

Extensions

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

Head office: Gaildorfer Str. 15 D-71522 Backnang Tel.: +49 (0)7191/141-0 Fax: +49 (0)7191/141-299
Office Radolfzell: Westendstr. 3 D-78315 Radolfzell Tel.: +49 (0)7191/141-150 Fax: +49 (0)7191/141-299 info@unitro.de www.unitro.de

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

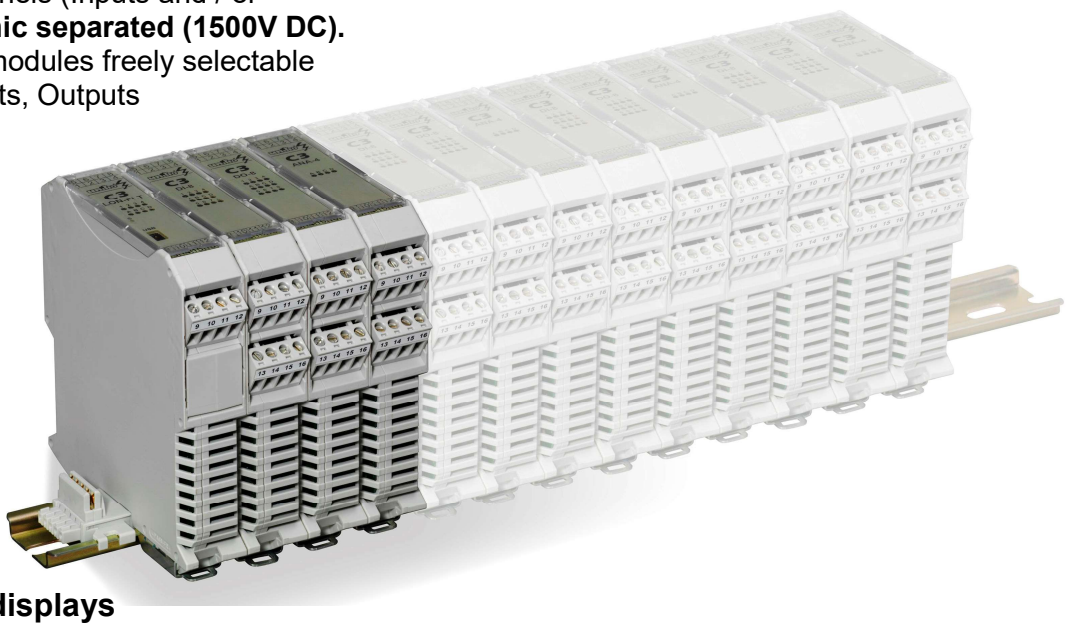
C3 analogue IN + OUT

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%**

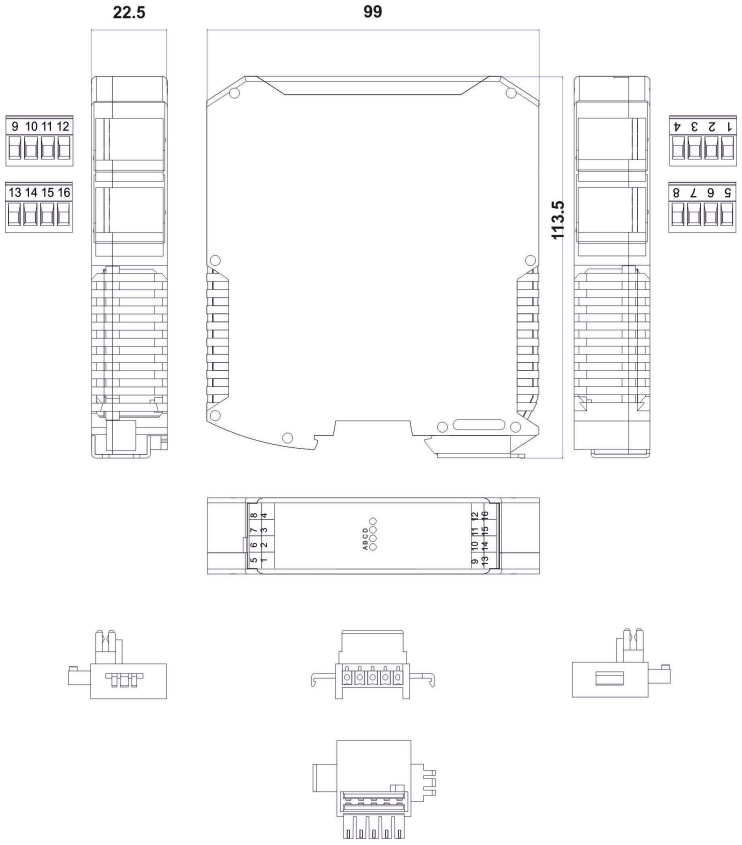
Mechanical characteristics

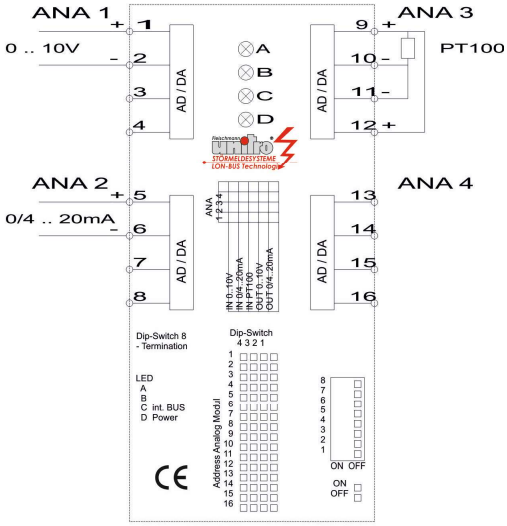
- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm with DIN-rail-bus
- Screw-type terminals, plug connection for connection max. 2,5mm²

Extensions

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

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** or **LNS-PlugIn** 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** from Windows 7 Pro or via **LNS-PlugIn** configurable
- Relevant / irrelevant, quiescent / operating current, response delay for each signal
- LON-bus self-binding address assignment (in conjunction with appropriate LON-bus modules)

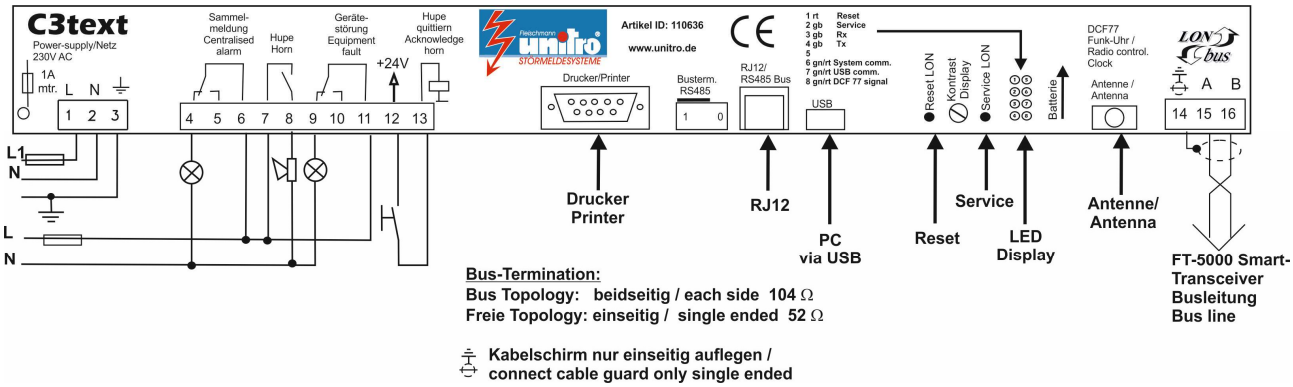
Supply voltage
- Wide-range power supplies with **85-265V AC / 85-250V DC** or **14-28V AC / 19-36V DC**, 100mA

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

Connection diagram **C3text** (LON)



Technical data:

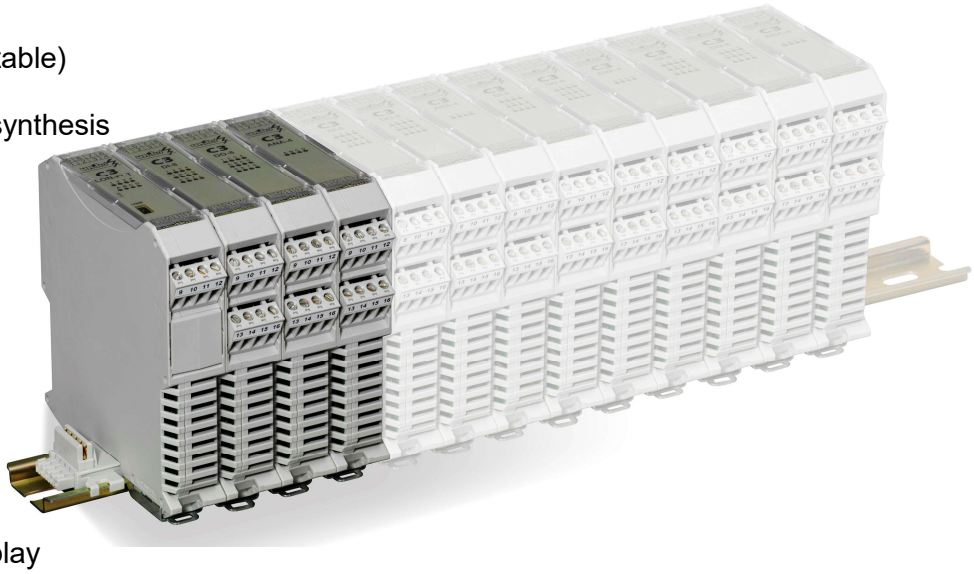
1. Type of construction:
   control panel bay 288 x 72 x 127mm
   (cutting for installation 283 x 62mm)
2. Weight:
   approx. 750g
3. Degree of protection:
   front: IP54
   bay: IP20
4. Climatic conditions:
   in accordance with Unitro-Standard
5. Connection:
   screw-type terminals/ plug connection
   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** or **LNS-PlugIn:**
    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

C3modem

for DIN Rail mounting

Types:

C3modem analog
remotely adjustable dialer
with 64 signal lines,
monitoring of trunk line (adjustable)
voice over the phone.
Text-to-Speech (TTS) voice synthesis
DTMF acknowledgment.
6 connection profiles, each
with 4 adjustable numbers.



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

Parameterization
- Via **Mini USB interface** and Windows XP Pro or W7 software configurable
- **Remotely adjustable** via dial-in (analog modem) with Windows XP Pro and W7 Software
- Relevant-Irrelevant, connection profiles, monitoring of trunk line, start-, acknowledge- and message texts
- Check (monitor) of the message texts about 3.5 mm ² audio OUT jack on the device

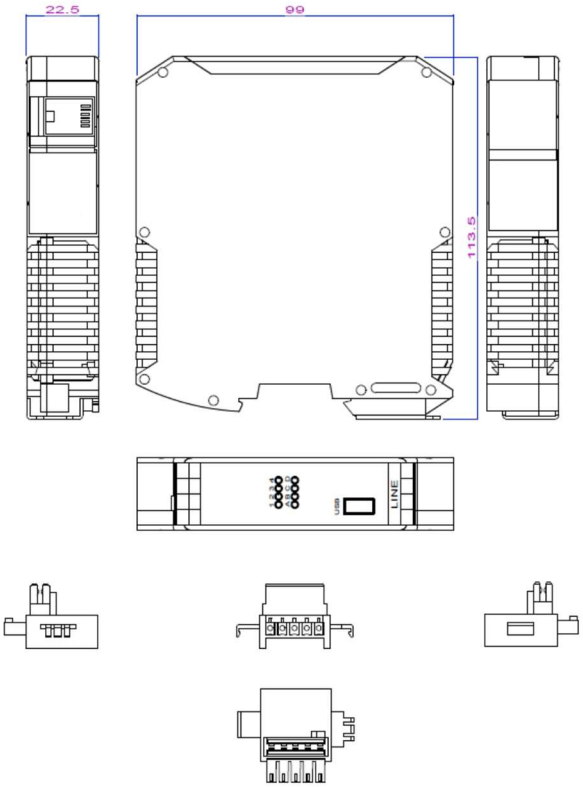
Power supply
- Via DIN-rail-bus

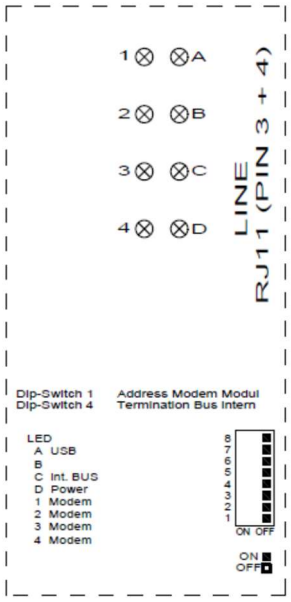
Electrical characteristics
- 64 detection lines, assigned via **C3-IN** or **C3text,** (possible parameters see **C3text**)
- 64 assignable outputs to the **C3-OUT** or **C3text**
- **Daily status message** (heart beat) in conjunction with **C3text**
- For the operation is a C3-Bus coupler (eg **C3-FTX, C3-PLT** ...) necessary

Mechanical characteristics
- Compact Snap-on plastic housing (polyamide) 22,5 x 99 x 113,5mm with DIN-rail-bus
- 3.5 mm² jack for audio OUT
- RJ11 socket (pin 3 +4) for analog telephone connection

Option
- VDS protocol (i.p.)
- GSM modem (i.p.)

Connection diagram **C3modem**





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:
   3.5 mm² jack for audio OUT
   RJ11 socket (pin 3 +4) for analog telephone connection
5. Weight:
   approx. 150g
6. Supply voltage:
   via DIN-rail-bus
7. Inputs:
   64 detection lines, assigned on **C3text**
   (possible parameters see **C3text**) or **C3-IN**
8. Outputs:
   64 outputs, represented via **C3text** or **C3-OUT**
   signal line 64 may be used to monitor the CO line
9. LED-display:
   see manual
10. Parameterization,
    remote parameterization:
    via the **mini USB port** and **dial-in**:
    message-, start- and acknowledge texts, profiles, phone numbers, and monitoring of trunk line.
11. Connection profiles:
    6 profiles, each with 4 numbers
12. Message texts:
    Text-to-Speech (TTS) voice synthesis
13. Acknowledgment:
    DTMF acknowledgment
14. Function:
    The phone numbers contained in the connection profile are selected until the message has been acknowledged.
    checking the telephone line
    daily status message (heartbeat) in conjunction with C3text
15. Leakage distances and clearances:
    in accordance with Unitro-Standard
16. 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

- Supply of C3 modules via the DIN rail connector (internal bus) with a regulated 24V DC.
- 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)

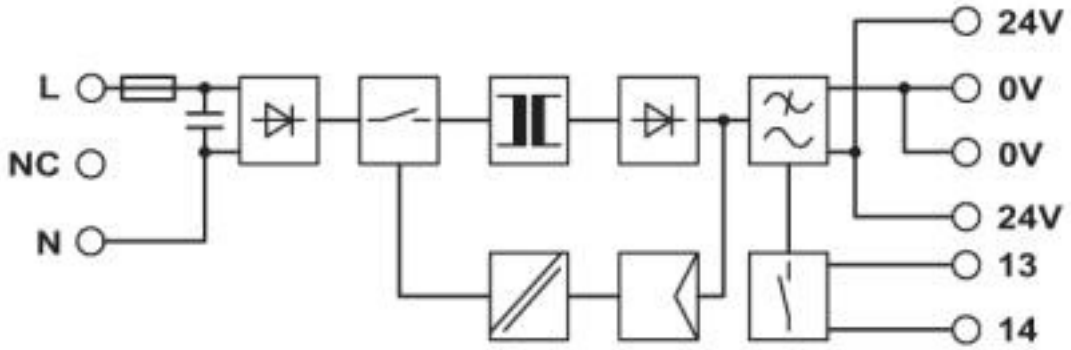
Mechanical characteristics

- 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

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