

Product Information

Decentral

Periphery Interface

DP307C



(valid from version DP307C-02)

Changes to older versions of this document

- Rev. 02 → 03:** new connectors, periphery modules added, new design line
Rev. 03 → 04: information added for LED-state, CAN-settings and potential separation/wire length
Rev. 04 → 05: Information for disposal of old equipment
Rev. 05 → 06: Link to Security Guideline added

Description

decentral head station for
periphery modules

35mm DIN Rail

- **DP307C** with 7 free
periphery slots

Head station

- communication to PLC
with a protocol
compatible
to CANopen®
- with switchable terminate
resistors for CAN

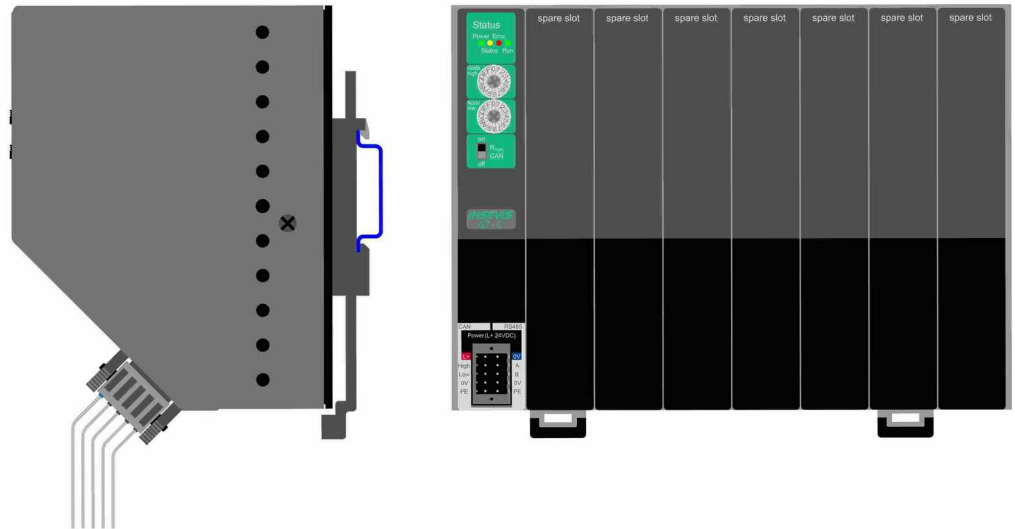


figure above: Sample of decentral head station DP307C from read sid and from the side

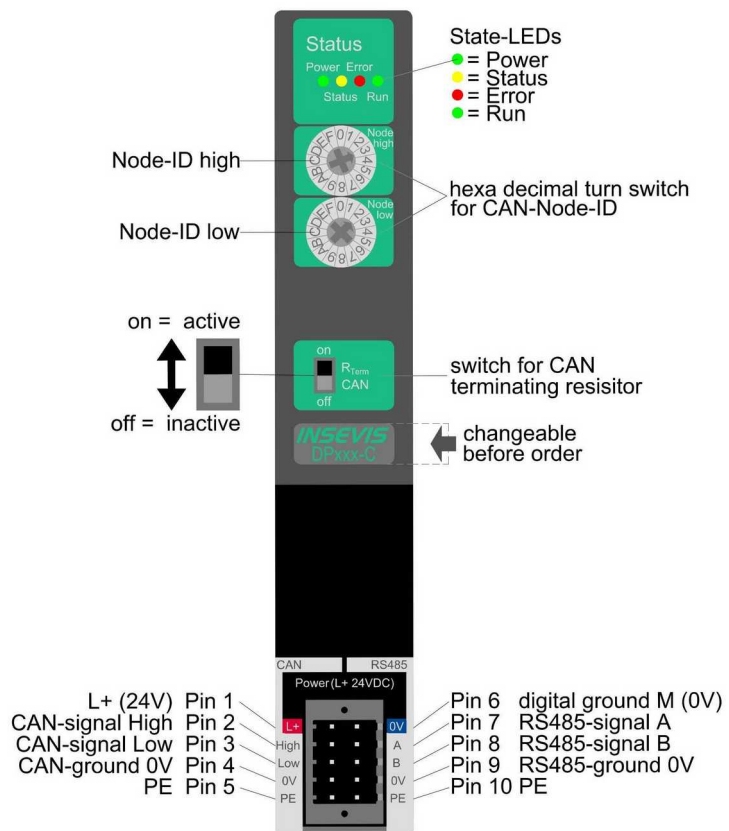
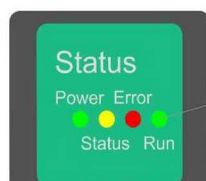


figure above: Description of all connections of all decentral interface stations of Type C

Technical data	
Dimension WxHxD (mm) Weight	162 x 116,5 x 92 ca. 600g
Mounting	to clip on a 35mm DIN-rail
IP-protection class	IP41
Vibrations	Frequency range 2 -100Hz, amplitude 1mm peak < 13,2Hz acceleration 0,7g >13,2Hz
Operating temperature range	-20°C ... +60°C (without condensation)
Storage temperature range	-30°C ... +80°C
Relative humidity	up to 96% (without condensation)
Connection technology	unlockable connector with self-lock and 2 lift-arms (cage clamp technology) for cross section up to max. 1,5mm²
Load voltage L+	24V DC (11 ... 30V DC)
Current consumption	20 mA ... 275 mA
Power dissipation	0,5 W (typ.), 4,5 W (max.)
Start-up current	< 3A
CAN Interface	
Potential separation	none (nonisolated, bound to L+ and periphery slots)
Wire length	30 m (using sufficient potential equalisation)
Periphery slots	7 free slots for INSEVIS-periphery modules

Status-display by LEDs in the periphery heads DP3xxC



Status-LEDs

- = Power
- = Status
- = Error
- = Run

Green Power LED

signalizes proper power supply.

Yellow Status-LED

warns about missing traffic. If no data were received for > 150 ms, this LED will lit up.

Red Error-LED

signalizes communication problems, mostly caused by wiring.

1x flash: warning level reached due to too many corrupted data

2x flash: NodeGuardEvent - node returns into PREOPERATIONAL due to lost host connection

Steady light (2 seconds): internal communication error, Timeout by peripheral module

Steady light (5 seconds): switch into bus-off due to too many corrupted data

RUN-LED

Slowly blinking

signalizes node state PREOPERATIONAL: Station is waiting for configuration data.
There is no process data communication.

Steady light

signalizes node state OPERATIONAL:
Configuration is done, station is ready and updates process data.

Fast flashing between RUN- and ERROR-LED

signalizes Auto-Baud-Mode after power up until first data are recognized.

CAN-settings

As global parameter a **baudrate** is to be determined.
For physical reasons the maximum baudrate of a CAN bus depends on the maximum line length. In case of inserted repeater or isolators an additional reduction of baudrate may be required.

Baudrate (kbit)	maximum busline length (m)
1000	20 ... 50
500	100
250	250
125	500
50	1000

Ordering data device

Identification	Order-no.	Packaging unit
interface station for decentral periphery DP307C	DP307C-02	PU: 1 piece

Ordering data of accessoires (Peripheral modules to be ordered separately as required)

Identification / Order-No.	Identification / Order-No.
Connector 2x5pin (bolt flanges) / E-CONS10-00	

Qualified personnel

All devices described in this manual may only be used, built up and operated together with this documentation. Installation, initiation and operation of these devices might only be done by instructed personnel with certified skills, who can prove their ability to install and initiate electrical and mechanical devices, systems and current circuits in a generally accepted and admitted standard.

Manuals, sample programs

Additional documentation by manuals is available as well sample applications at the download area of www.insevis.com in English language for free download.

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Security Guideline

A guide on how to use this product to ensure compliance with the Cyber Resilience Act (CRA) can be found on the INSEVIS website at: [INSEVIS Security-Guideline](#) or on request at info@insevis.de.

Disposal



Do not throw old appliances in the household waste! In the interest of environmental protection, old appliances must be collected separately from unsorted municipal waste. You can find out more about the proper disposal / return of your old appliance at www.insevis.com/disposal.

Attention: The deletion of personal data on the old devices to be disposed of is the responsibility of the end user.