IMPORTANT

- Please read the system manual carefully before using any of our products. You can find the system manual in the Symphony Suite, which can be downloaded after registration under the following link: http://cockpit.selectron.ch/download.
- Allow only appropriately trained personnel to handle the devices and pay attention to the ESD protection measures.
- Usage restriction: The designated product may only be used in an industrial environment (Class A product) in accordance with specifications in the manuals.
- To ensure a ground connection, a metallic top hat rail must be used. Due to the grounding function of the top hat rail, it must neither be plastic-coated nor anodized. In addition, the top hat rail must be earthed with a large surface area and low-impedance connection.
- To avoid the risk of destroying a module, it must never be mounted or removed under live voltage.
- Before supplying any voltage, make sure that the connection terminal block is connected in order to follow the EMC standards. The appropriate connection terminal block has to be ordered separately.
- For the appropriate connection terminal blocks (TBAs), refer to the side label of the module.
- For analog modules, the cable must be shielded and the shield must be made from wire mesh (i.e., the cable is not wrapped with aluminum foil). Recommended cable from Huber+Suhner: RADOX GKW-LW with the appropriate number of wires and cable diameter for the connection terminal block.
- For M12 Ethernet connections on DDE or SDDE node modules, the cables and the connection plugs must be shielded. Recommended cable from Selectron: ECA 801-T (Art.no. 44130176). Recommended plugs from Selectron: CAM 801-T (Art.no. 44130171), CAM 802-T (Art.no. 44130172), CAM 803-T (Art.no. 44130173).
- For D-sub CAN connections on DDC or SDDC node modules, the cables and the connection plugs must be shielded. Recommended cable from Selectron: DCA 701-T (Art.no. 44170055). Recommended plugs from Selectron: CBC 701-T (Art.no. 44570101), CBC 704-T (Art.no. 44570111).

Smartio®

PRODUCT LEAFLET

for

Input and Output Modules
Node Modules
Supply Modules
Bus Termination Modules
(SIL 0 and SIL 2 Versions)

Selectron Systems AG
Bernstrasse 70
3250 Lyss
Switzerland
www.selectron.ch

Leaflet 50002253
Rev. B

SELECTRON

Package Contents:

1 × Module
1 × Product Leaflet

Input Voltage:

Example: DIT 301-**TF**

-**TF**:	24	Vdc
-**TH**:	36	Vdc
-**TV**:	72…110	Vdc

Optional Input Voltage Connection on Connection Terminal Block:

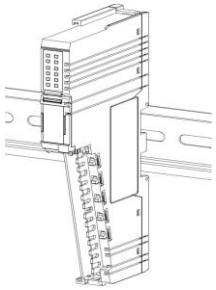
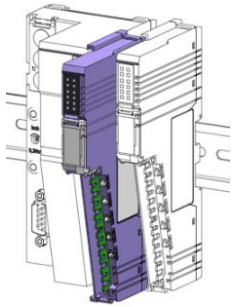
Vdc +	Deep red-colored connection point
Vdc –	Deep blue-colored connection point

A decentralized I/O island has to:

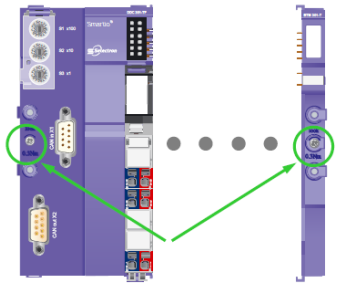
- Start with a **node module** (left) and
- end with a **bus termination module** (right)

Mounting Instructions

First, securely fix the top hat rail to the intended position, then mount the decentralized I/O island on the top hat rail.

Mounting of Module	
1. Press the module perpendicular to the top hat rail until it audibly snaps into place.	
2. When connecting adjacent extension modules, make sure they are correctly mated together via the tongue and groove.	

Modules with an End Clamp
(Node Modules and Bus Termination Modules)



In order to prevent lateral movement from vibration and shock, both the **node module** and the **bus termination module** have an end clamp for firm attachment onto the top hat rail. Modules within the decentralized I/O island are then fixed with these clamps.

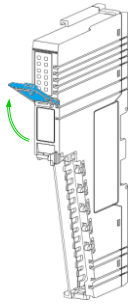
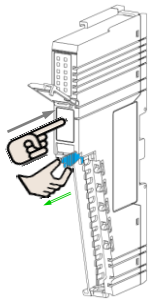
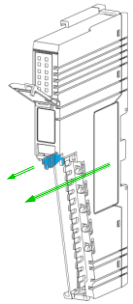
Use a Phillips-head screwdriver, maximum size 1.
Tighten the screws with a maximum torque of 0.3 Nm.

Removal Instructions

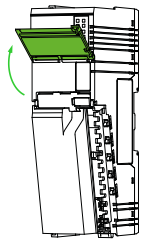
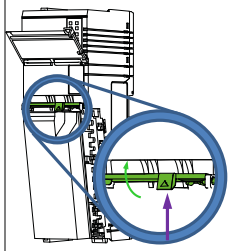
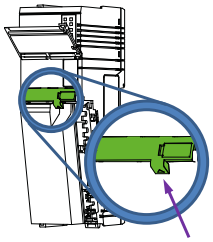
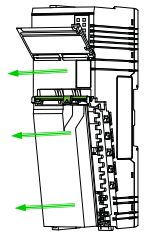
Removal of Modules without Unlock Bar
(Node Modules, Bus Termination Modules and Modules with 14 mm Width)

For modules with an end clamp, first release the thumbscrew!

Remove the connection terminal block(s) of the module, as well as the connection terminal blocks of the module next to the left and possibly also the one next to the right.

1.	2.	3.
		
Open the cover flap.	Press the module lightly against the top hat rail and pull the pull-tab; this way the jaws can easily detach from the top hat rail.	Remove the module vertically away from the top hat rail by pulling the pull-tab.

Removal of Modules with an Unlock Bar (Width: 28 mm or 42 mm)

1.	2.	3.	4.
			
Open the cover flap.	Notice the finger grip on the unlock bar.	Lift up the unlock bar by means of this finger grip up to a stable position.	Pull the module vertically away from the top hat rail by pulling the unlock bar.