

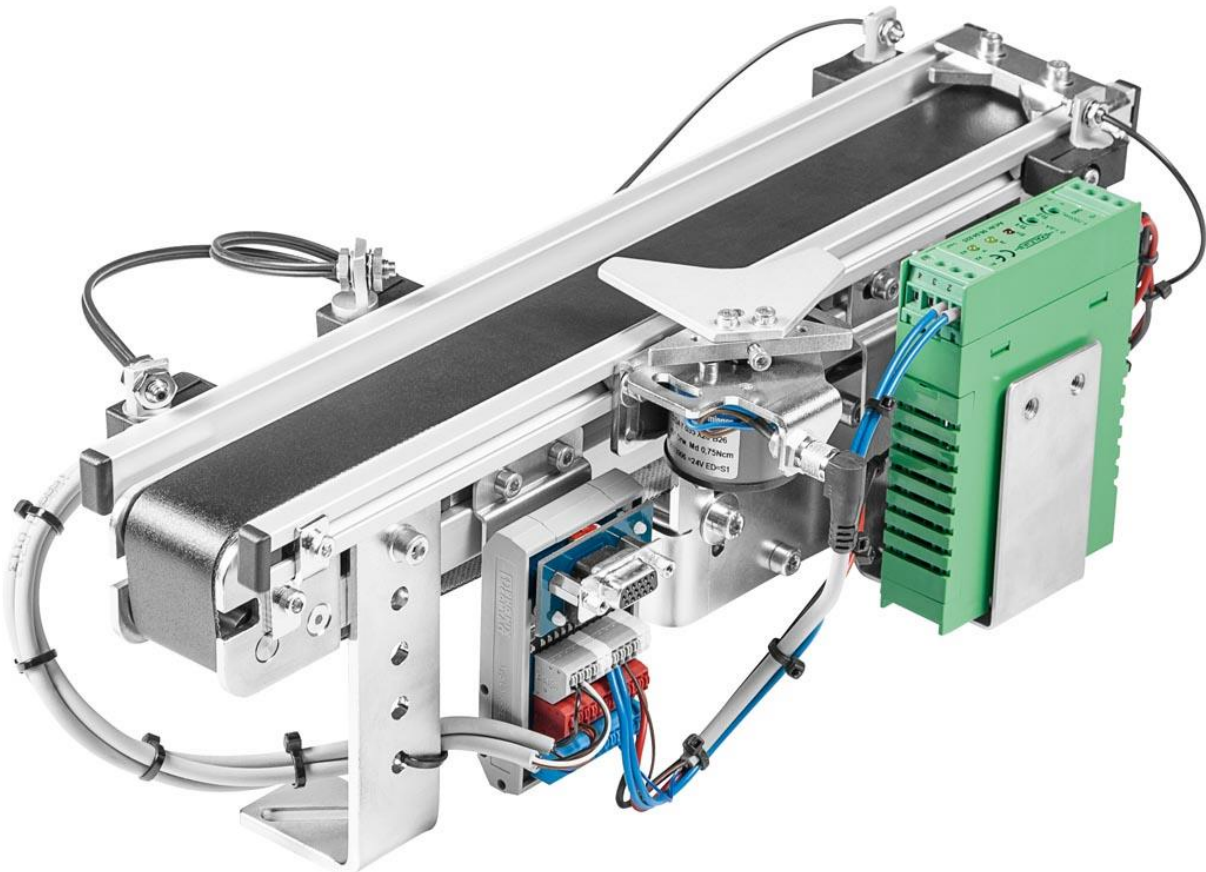
## HW Test project for all participants

### Assembly and commissioning of a conveyor module

Maximum time: 60 minutes

#### Situation

You are responsible for the assembly of a conveyor module. The conveyor module has been ordered by a customer in France to automate the production process.



#### Task

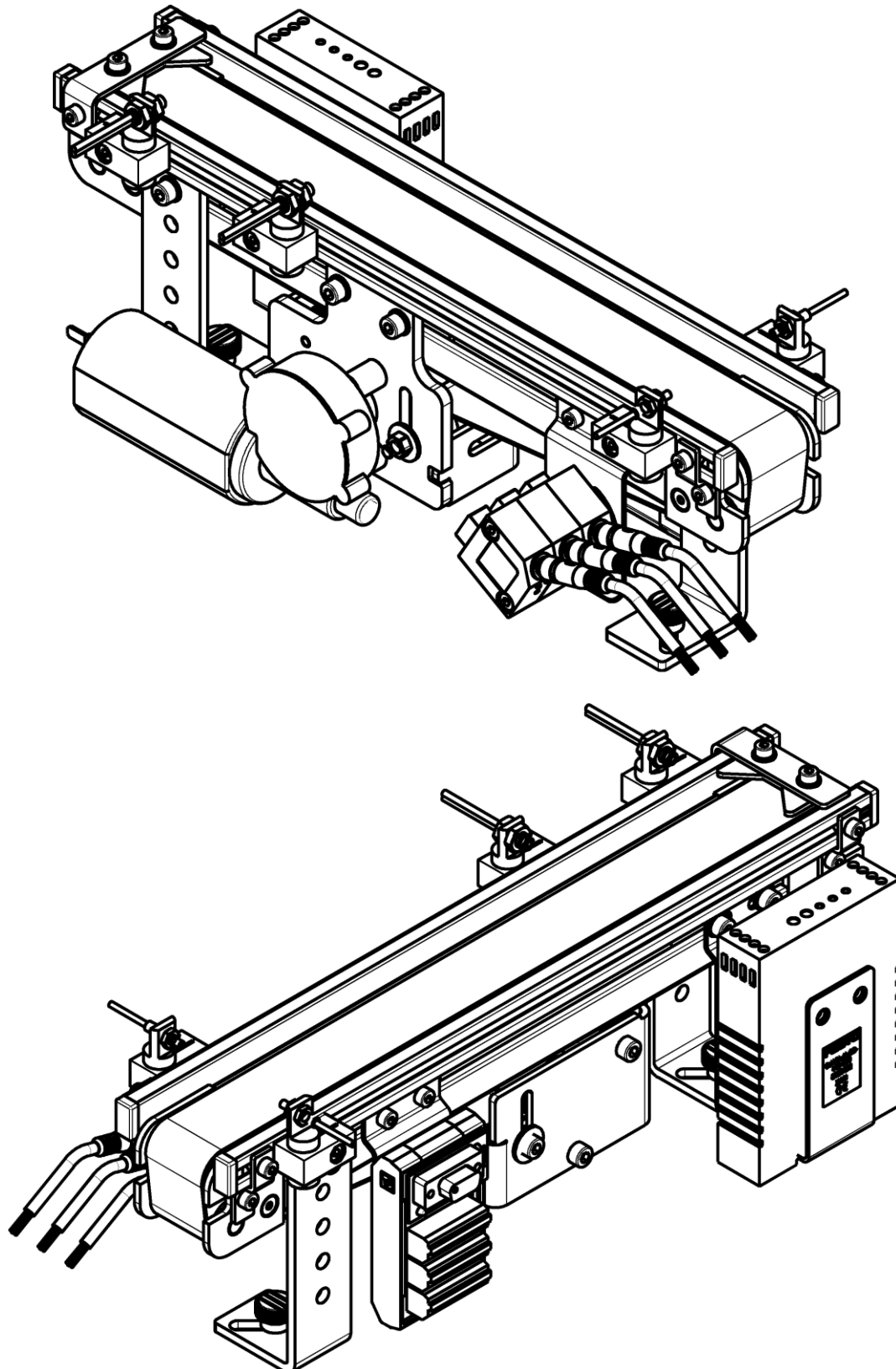
Assemble and wire the conveyor module on the profile plate according to the technical documentation.

Your task is complete when:

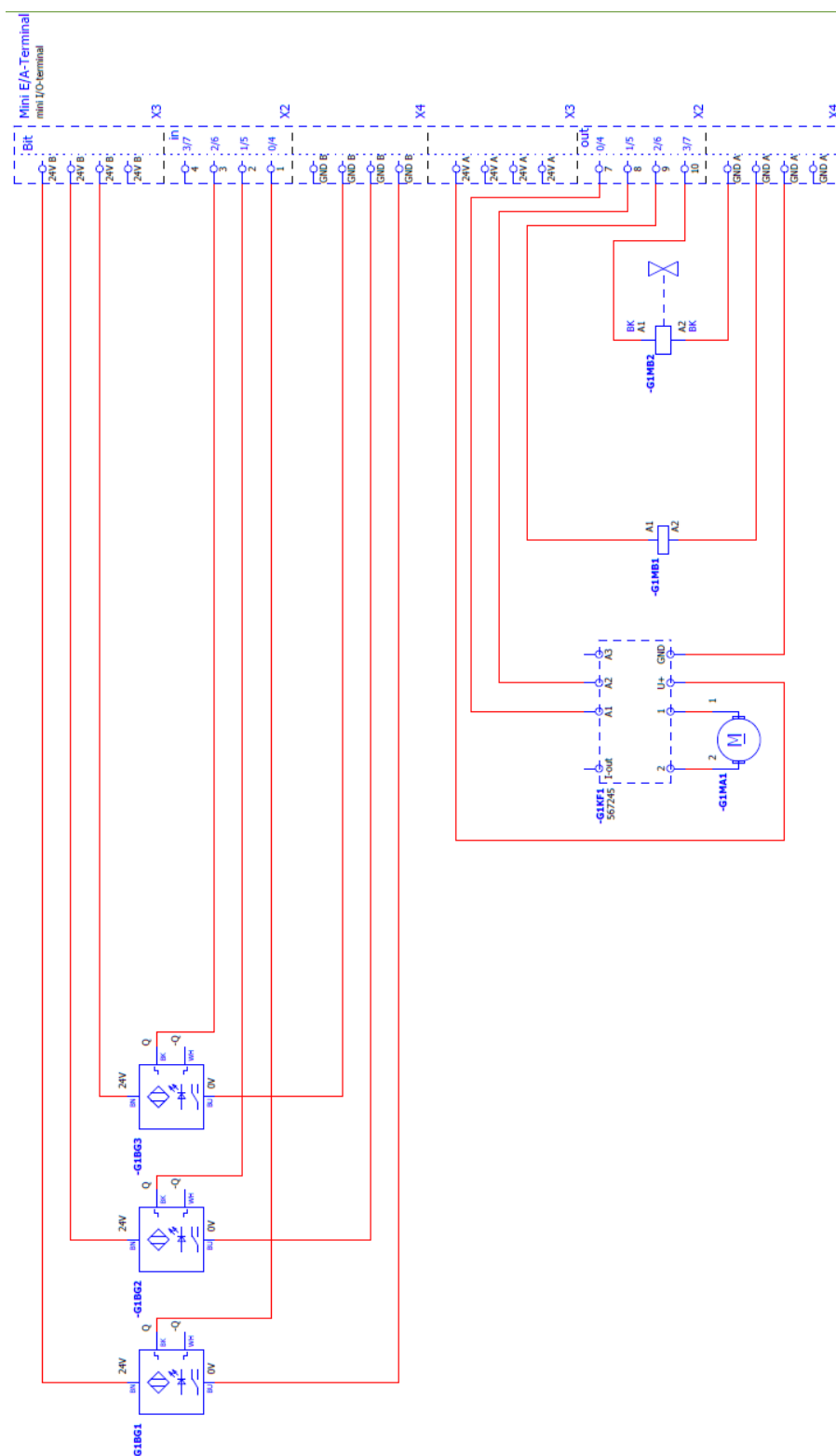
1. The module is mechanically assembled on the profile plate, correctly wired, connected and its correct operation has been verified (based on evaluation using the simulation box).
2. The module meets the specifications (in accordance with the 'Agreement on Professional Practice' judgment).

The module will be sent to the customer as soon as you are finished. You will have no opportunity to make improvements later.

**Mechanical information – Different views of the conveyor module**



## Electrical information – Connection diagram



**Assembly information – Fixing of cables, wires and optical fibres**

All cables, wires and optical fibres must be fixed to the module.  
Fixing with cable holders on the profile plate is not permitted.

## Evaluation form HW Test project for all participant


### Assembly and commissioning of a conveyor module

Competitor: .....

Expert at the evaluation (Name, signature): .....

Maximum Time: 60 minutes

Time needed: .....

Function to be checked using simulation box and wiring of the I/O Terminal			Result	Mark Awarded
Preparation: Connect the simulation box to the I/O terminal (Output 0 – 7: signal 1 or 0); (Input 0 – 7: signal 1 or 0)				
I/O Terminal IN	Comment – Signal 1 indicates			
DI 0	No workpiece at conveyor beginning			0.8
DI 1	Workpiece at conveyor intermediate position			0.8
DI 2	Workpiece at conveyor end			0.8
DI 3				
DI 4				
DI 5				
DI 6				
DI 7				
I/O Terminal OUT	Comment – Signal 1 set			
DO 0	Conveyor forward			0.8
DO 1	Conveyor forward			0.8
DO 2				
DO 3				
DO 4				
DO 5				
DO 6				
DO 7				
Total SimuBox				4

Description	Result	Mark Awarded
<b>Professional Practice</b> The Professional Practice list is controlled by scoring. Excellence: 3p; Professionnel: 2p; Optimization / rework necessary: 1p; Not acceptable: 0p		
1. Cleanliness of the workplace and the station while approval		0.6
2. Routing of tubes and cables		0.6
3. Mechanical implementation		0.6
4. Electrical installation and wiring of the components		0.6
5. Special cases announced by experts and the overall impression		0.6
<b>Total Professional Practice</b>		<b>3</b>

Description	Result	Mark Awarded
Time evaluation only if the maximum number of points is achieved for simulation box function and at least 2 points for professional practice judgment 0.15 points for each minute gained		
<b>Total time evaluation</b>		<b>3</b>

Description	Result	Mark Awarded
Points for SimuBox		4
Points for Professional Practice		3
Points for time evaluation		3
<b>Total points</b>		<b>10</b>