



IXARC ABSOLUTE ENCODER WITH SSI INTERFACE
QUICKSTART INSTRUCTIONS

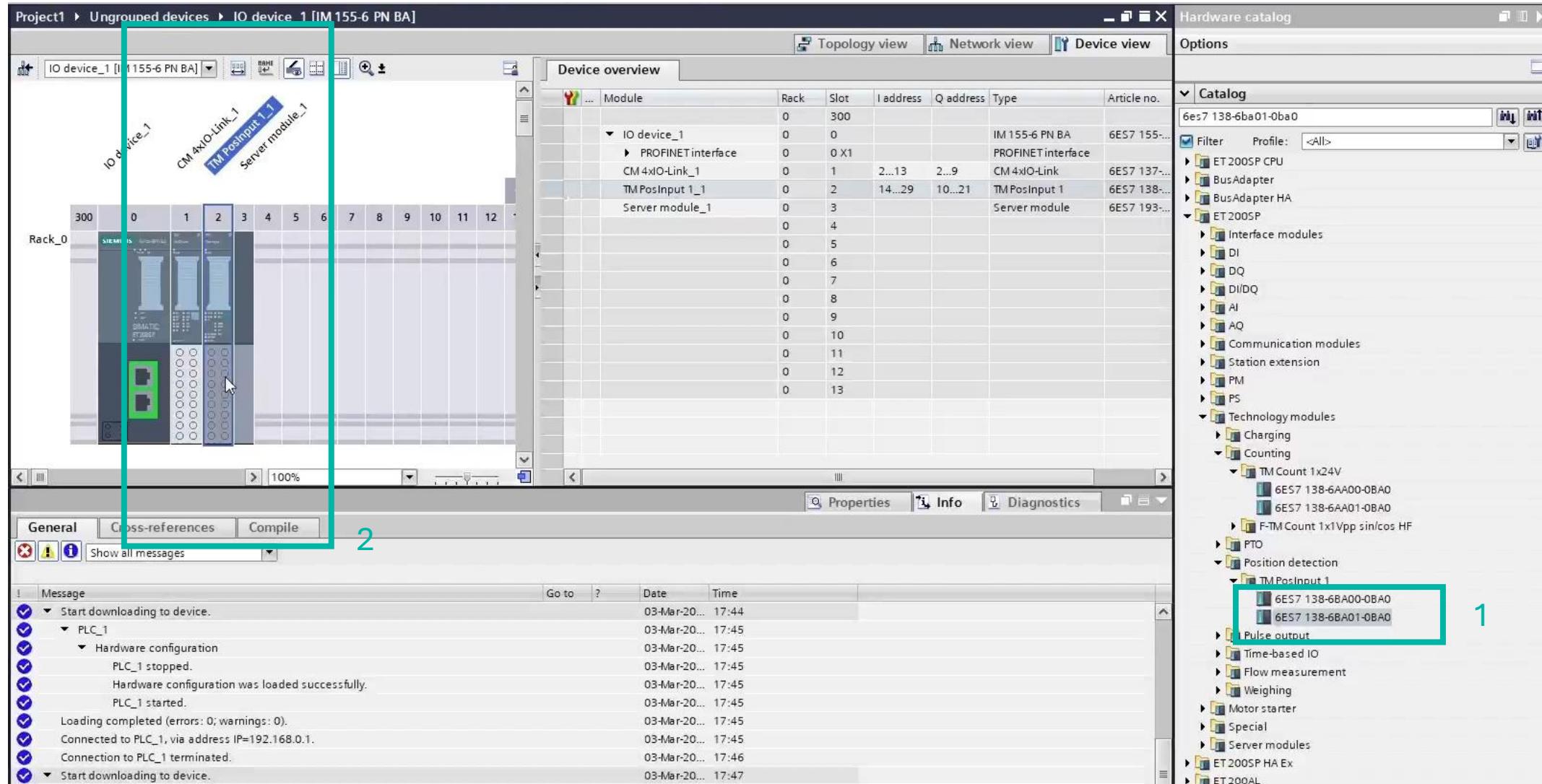


Equipment List

- Siemens PLC: S7-1200 1215C DC/DC/DC, 6ES7138-6BA01-0BA0
- Engineering Tool: TIA Portal Professional
- Posital Encoder: UCD-S101B-1213-L100-PRQ

Add the Devices

- Search the PLC in the catalog and drag and drop it in the project.



Commissioning

> Settings

Project1 > Ungrouped devices > IO device_1 [IM 155-6 PN BA]

Device overview

Module	Rack	Slot	I address	Q address	Type	Article no.
IO device_1	0	300			IM 155-6 PN BA	6ES7 155...
PROFINET interface	0	0 X1			PROFINET interface	
CM 4xIO-Link_1	0	1	2...13	2...9	CM 4xIO-Link	6ES7 137...
TM PosInput 1_1	0	2	14...29	10...21	TM PosInput 1	6ES7 138...
Server module_1	0	3			Server module	6ES7 193...
	0	4				
	0	5				
	0	6				
	0	7				
	0	8				
	0	9				
	0	10				
	0	11				
	0	12				
	0	13				

TM PosInput 1_1 [TM PosInput 1]

Properties Info Diagnostics

General IO tags System constants Texts

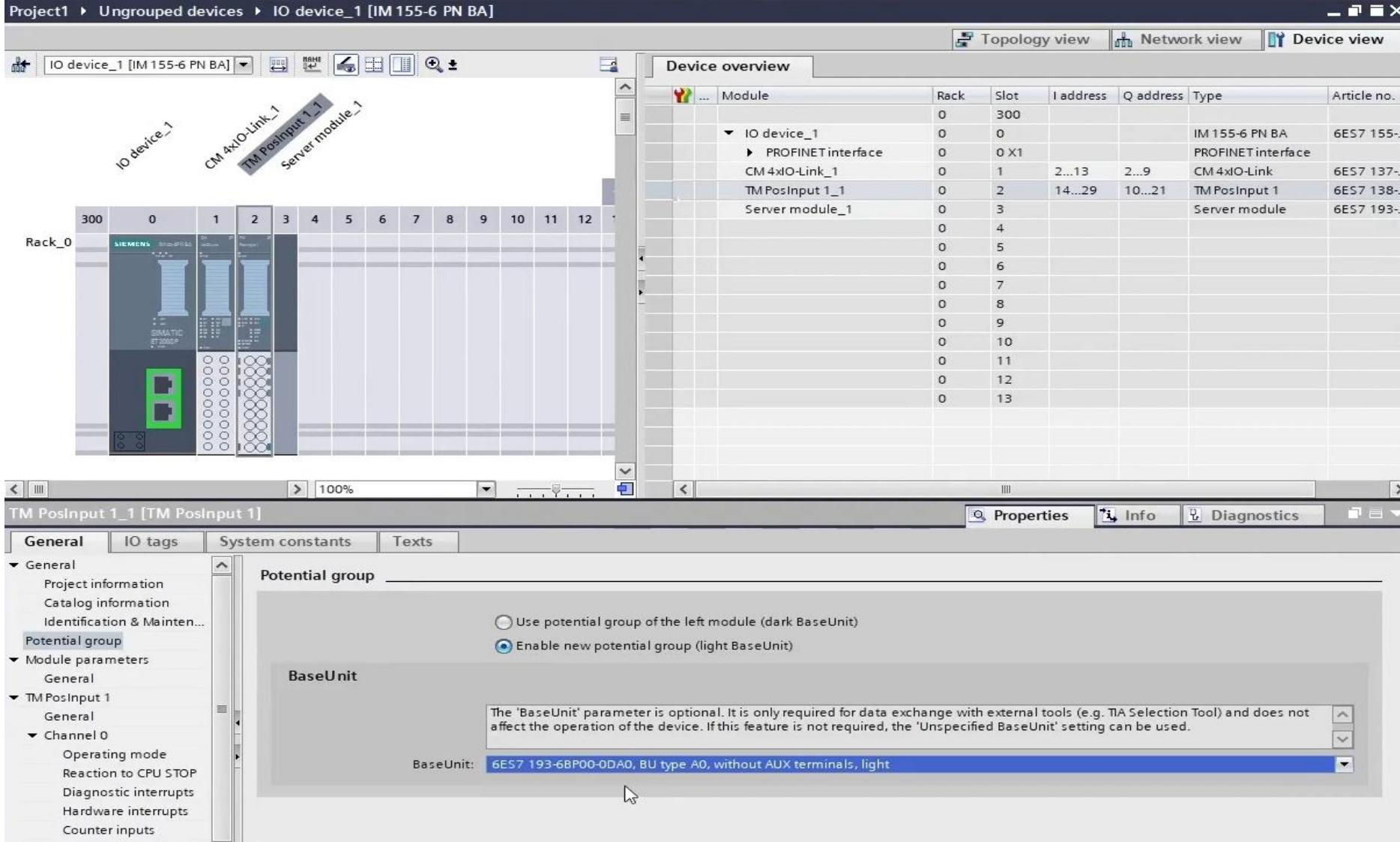
Potential group

Use potential group of the left module (dark BaseUnit)
 Enable new potential group (light BaseUnit)

BaseUnit

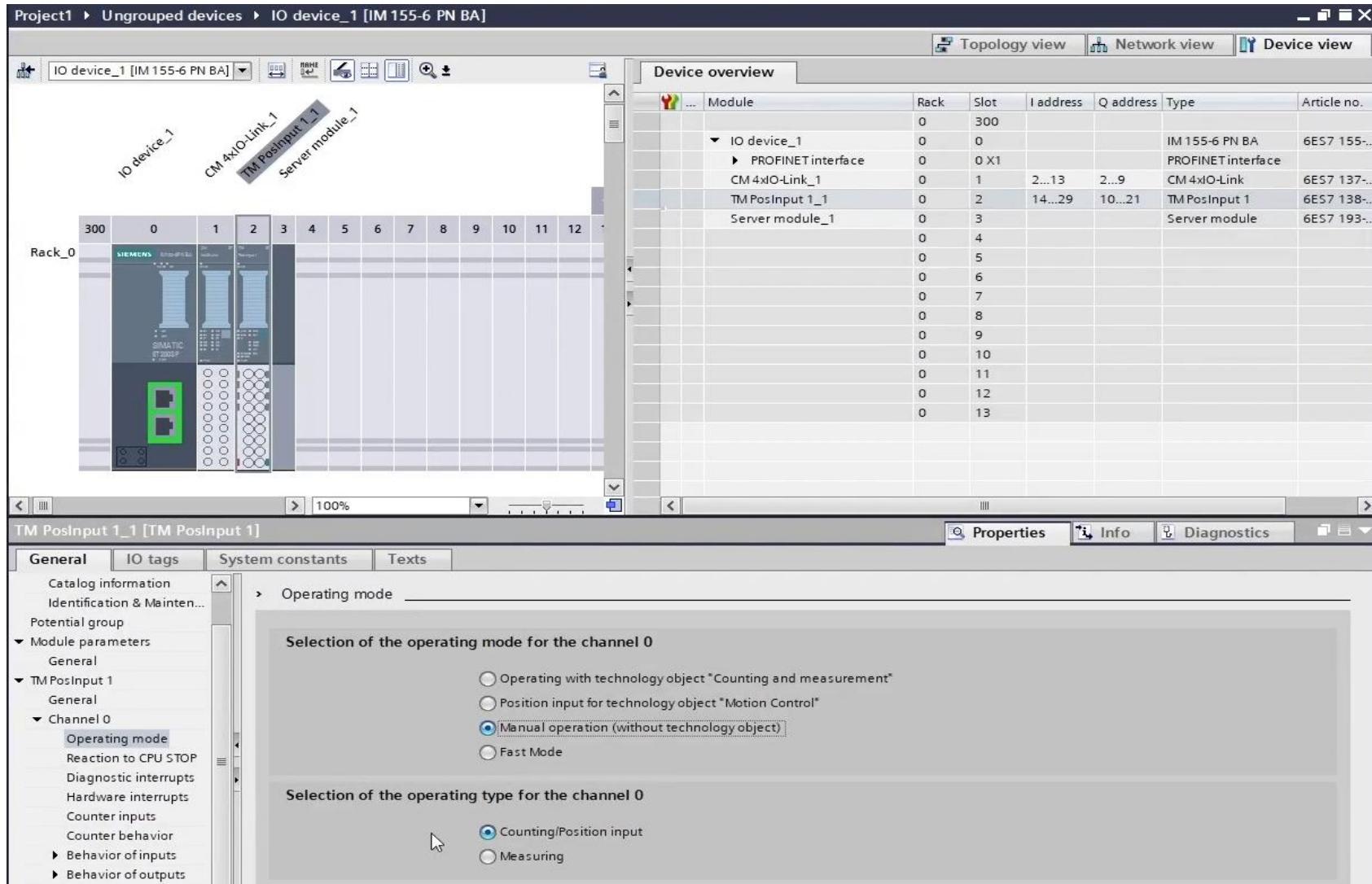
The 'BaseUnit' parameter is optional. It is only required for data exchange with external tools (e.g. TIA Selection Tool) and does not affect the operation of the device. If this feature is not required, the 'Unspecified BaseUnit' setting can be used.

BaseUnit: 6ES7 193-6BP00-0DA0, BU type A0, without AUX terminals, light



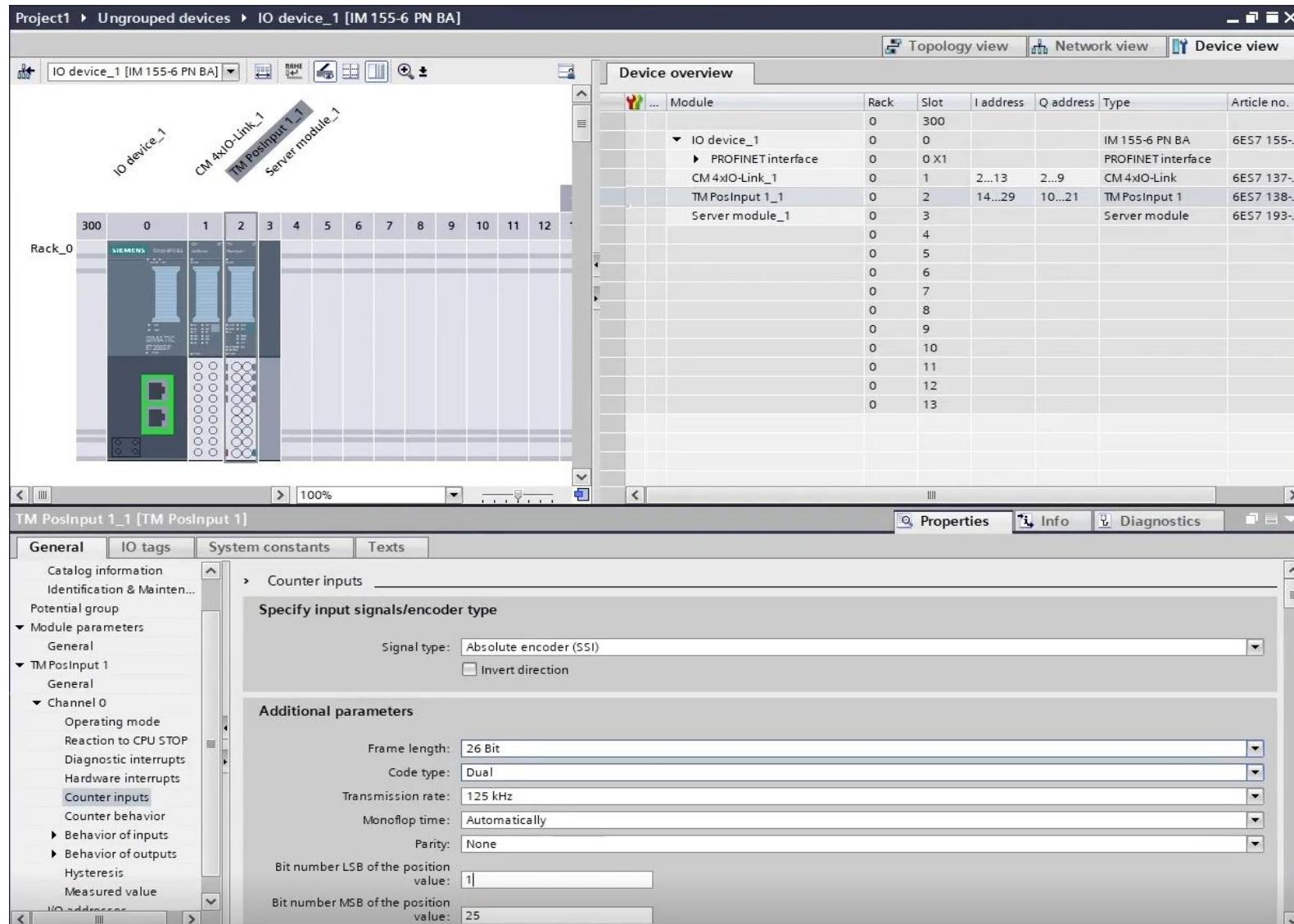
Commissioning

> Settings



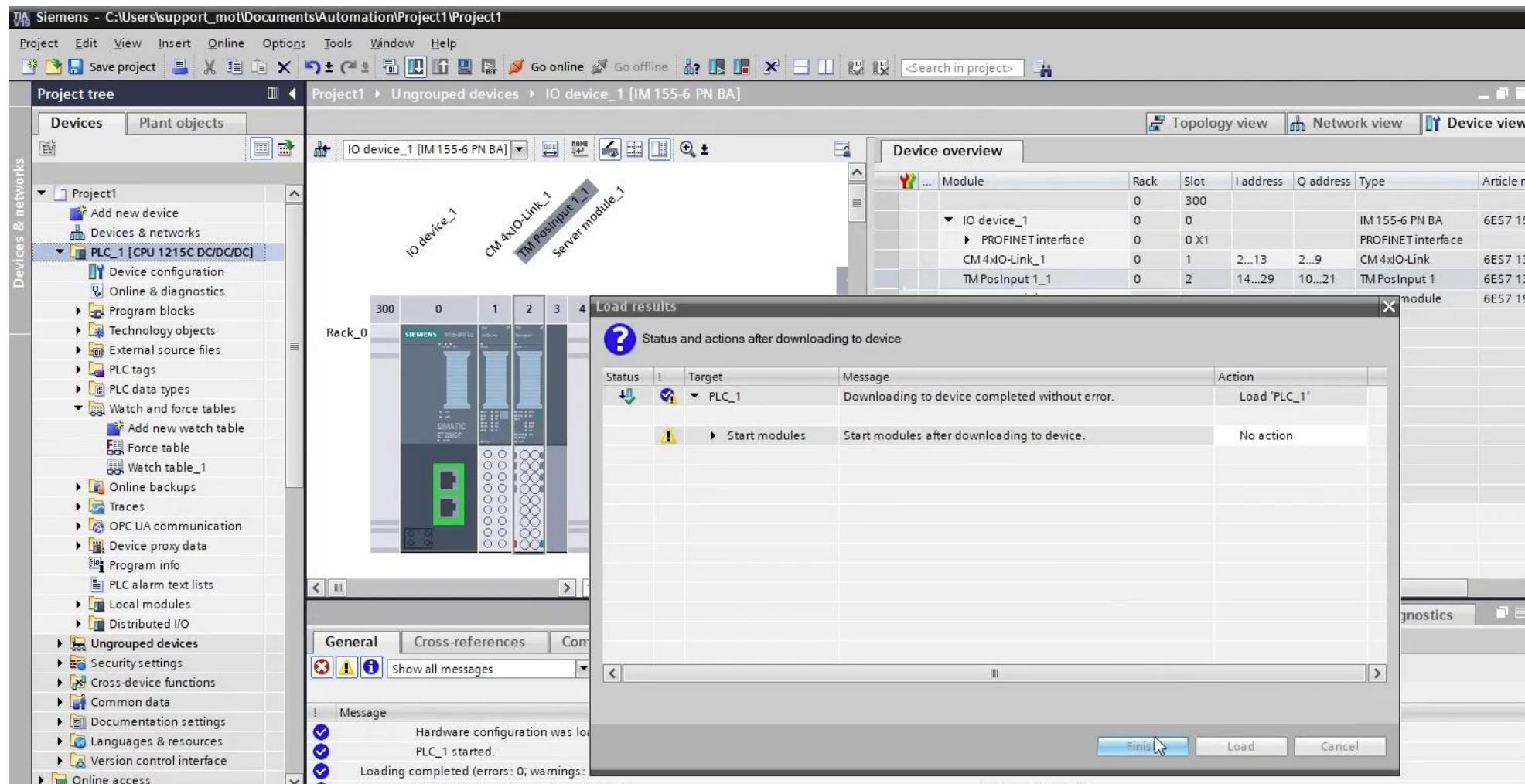
Commissioning

▶ Settings



Commissioning

> Download



Add the Devices

> Check the I/O addresses

The screenshot shows the SIMATIC Manager interface for Project1 > Ungrouped devices > IO device_1 [IM 155-6 PN BA].

Device overview:

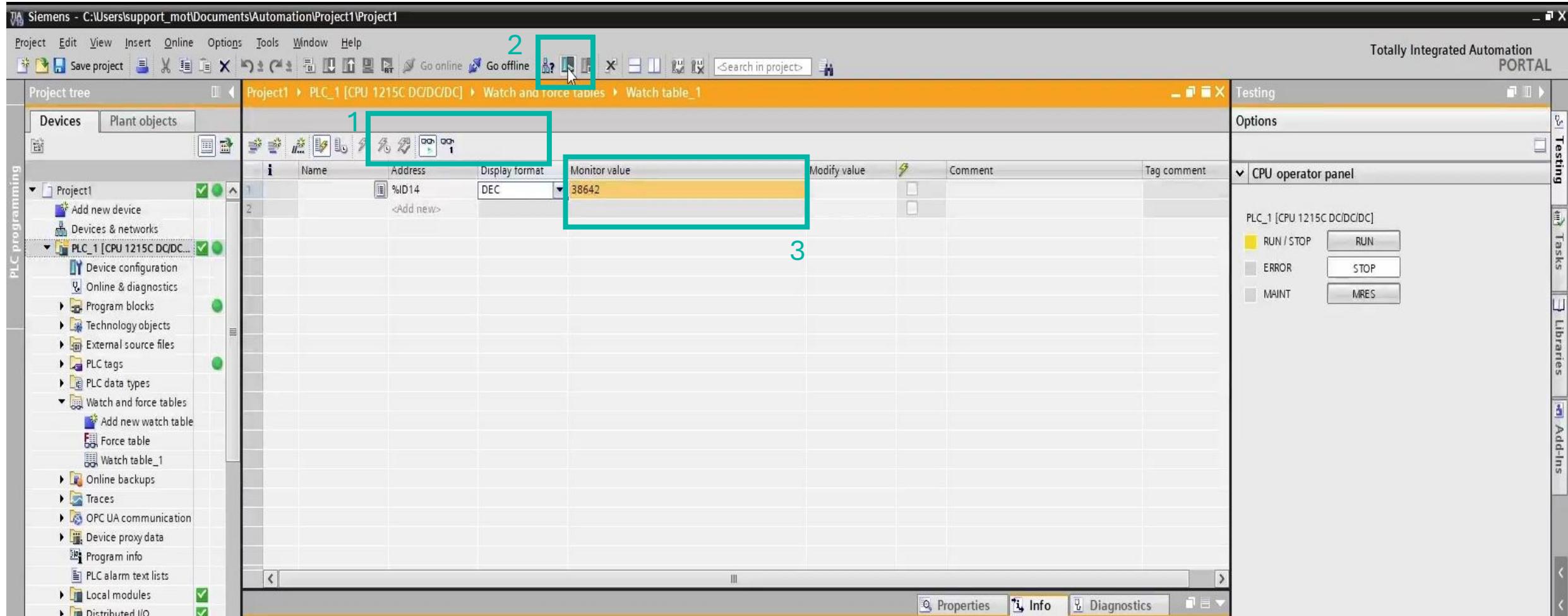
Module	Rack	Slot	I address	Q address	Type	Article no.
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PROFINET interface	0	0 X1			PROFINET interface	
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TM PosInput 1_1	0	2	14...29	10...21	TM PosInput 1	6ES7 138...
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	0	4				
	0	5				
	0	6				
	0	7				
	0	8				
	0	9				
	0	10				
	0	11				
	0	12				
	0	13				

Hardware catalog:

- Filter Profile: <All>
- ET200SP CPU
- BusAdapter
- BusAdapter HA
- ET200SP
 - Interface modules
 - DI
 - DQ
 - DI/DQ
 - AI
 - AQ
 - Communication modules
 - Station extension
 - PM
 - PS
- Technology modules
 - Charging
 - Counting
 - TM Count 1x24V
 - 6ES7 138-6AA00-0BA0
 - 6ES7 138-6AA01-0BA0
 - F-TM Count 1x1Vpp sin/cos HF
 - PTO
 - Position detection
 - TM PosInput 1
 - 6ES7 138-6BA00-0BA0
 - 6ES7 138-6BA01-0BA0
 - Pulse output
 - Time-based IO
 - Flow measurement
 - Weighing
 - Motor starter
 - Special
 - Server modules
- ET200SP HA Ex
- ET200AL

Commissioning

- Position Value - click on “Monitor All” and “Run the CPU”. Position Value is available on Address ID14



Document Versions:

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