

INTERNATIONAL ELECTROTECHNICAL COMMISSION
COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

IEC 63261
Edition 1.0 2024-11

Representation of electrical and instrument
objects in digital 3D plant models during
engineering

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Représentation des objets électriques et
d'instrumentation dans des modèles
d'installation numérique 3D pendant la phase
d'ingénierie

CORRIGENDUM 1

Corrections to the French version appear after the English text.

Les corrections à la version française sont données après le texte anglais.

Table 1 – Content of 3D plant model

Replace the existing Table 1 with the following new Table 1:

E&I-Object	IEC 63261:2024/COR1:2025 Description	Requirement, recommendation or permission
Instruments and valves		
Automated valves	All control devices (installed in the piping) within the P&ID with their maximum geometric dimension of their drives and description of the mounting	Requirement
In-line instruments	All in-line devices within the P&ID (installed in piping) with their maximum geometric dimension according to the installation drawing	Requirement
Inlet and outlet sections	Special inlet and outlet sections	Recommendation
Flange-mounted instruments	All flange-mounted devices within the P&ID with their maximum geometric dimension. The room for installation and removal shall be considered.	Requirement
Surface-mounted instruments	Clamp-on measurement devices	Requirement
Externally-mounted instruments	Process control devices with tubing measurement lines: At least one measurement connection including the tubing adapter shall be modelled	Requirement

E&I-Object	Description	Requirement, recommendation or permission
Electrical and cable trays		
Transformers	Transformers	Requirement
Motors	Electrical drive for motors with equipment	Requirement
Cable trays and ladders	All horizontal and vertical cable routes (equal and larger than 200 mm width)	Requirement
	Cable trays smaller than 200 mm width	Permission
	Mesh cable trays are usually not depicted	Recommendation
Cable routing	Configuration of the cable routes and cable run. All cables at a given cross section	Recommendation
Major electrical supports	Major electrical supports for cable routes shall be planned in the model.	Requirement
Cable tray supports	Mounting for cable trays only as required	Recommendation
Cable ducts	Planned wall openings for cable trays or cable entries shall be depicted	Requirement
Trenches, culverts and underground conduits	All trenches and underground conduits	Recommendation
Electrical panels and cabinets		
Electrical panels	Cabinets, local control boards (LCB) and control rooms in the field	Requirement
Cabinets	Cabinets in the switch room (required for cable routing and collision avoidance with HVAC and FSA)	Requirement
Process analyzer cabinets and containers	Analyzer cabinets, analyzer container; including room air measurement	Requirement
Remote-IOs	Remote IOs	Requirement
Junction boxes	Electrical junction box	Requirement
	Field bus and transition junction box	Recommendation
Grounding boxes	Grounding box and central grounding point	Recommendation
Installation		
Local control station	Local control station including mounting	Recommendation
Power sockets	Power sockets and welding receptacles	Requirement
Instrument air distribution	Air distributors (minimum placeholder)	Recommendation
	Air distributors in case it is connected to piping	Requirement
Electrical heat tracing	Identification of electrical heat tracing by its thermal insulation	Requirement
	Reference measurement and distribution for electrical trace heating. Electrical trace heating shall only be depicted by its thermal insulation	Recommendation
Lighting	Lighting row, lighting fixtures	Recommendation
Emergency lighting	Emergency lights	Recommendation
Communication systems		
Fire alarm system	Fire detectors and alarm annunciators (horn, lights)	Permission
Public address system	Speaker, intercom stations	Permission
Video systems	Cameras	Permission
WLAN access points	Network components	Permission
Others		
Hazardous areas	Depiction of explosion hazard zones	Permission