Industrial DIN-Rail Fiber Units — Installation Notes

English · Revision EN-20261101-V178

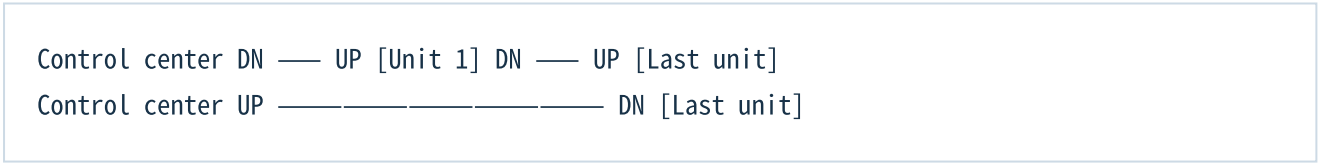
For the legacy industrial fiber units with UP/DN optical ports and a manual Loop SW described in the Chinese installation manual. This procedure does not apply to managed Ethernet ring protocols or to models without these controls.

Power and preparation

Disconnect operating power before connecting the optical cables. The manual lists dual DC inputs V1/V2: DC12–57 V for the non-PoE versions and DC44–57 V for the PoE versions. Use the exact model's input rating and polarity.

Connect the fiber chain

1. Connect the control-center unit's Fiber/DN port to the adjacent unit's Fiber/UP port.
2. Continue the chain by connecting each unit's available optical port to the corresponding port of the next unit.
3. Use the return fiber to connect the control-center unit's Fiber/UP port to the Fiber/DN port of the last unit.
4. Connect cameras, NVRs or other Ethernet devices to the network ports. Connect the specified DC supply and check the power, optical-link and Ethernet indicators.



Manual Loop SW operation

In the intact-link operating state described by the source, keep Loop SW OFF at the control-center unit and ON at the other units. The control-center Loop indicator is off.

When the fiber chain or an intermediate unit fails, the source instructs switching the control-center Loop SW ON to use the return path. The other units remain ON. Return the control-center switch to the source's normal OFF state when normal operation is restored. Leaving every Loop SW on in an intact ring can interrupt the network.

Indicators

P1 / P2	On: operating power present. Off: no operating input.

UP / DN	On: optical link connected. Flashing: link connected with data traffic. Off: no optical link.
Loop	On: ring function enabled. Off: disabled.
Fail	The source lists on when both power inputs are normal; off when one input is abnormal or not connected.
1000	On: 1000 Mbps. Off: 100 Mbps.
POE	The source uses this indicator to distinguish the PoE and non-PoE versions.

Other switches

Where fitted, VLAN enables/disables port isolation; IPC enables/disables extended Ethernet-port distance; CBIT enables/disables network optimization. CBIT requires compatible support across the complete link. Match switches to the actual panel and installed network.

Source: Chinese source document / product specifications
www.aeo-cctv.com/en/