

AMIKON TECHNICAL DOCUMENTATION

# Installation Instructions

## ICS Triplex T8314

Trusted fibre transmitter receiver

|                  |                  |            |               |
|------------------|------------------|------------|---------------|
| LINK             | OPTICS           | SUPPLY     | POWER         |
| Trusted expander | Single-mode / SC | 18-32 V DC | 1.7 W maximum |

For qualified personnel only. This installation summary is not a substitute for the controlled manufacturer procedure, system safety plan or approved site isolation requirements.

### 01 BEFORE INSTALLATION

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Identity and condition | Confirm T8314 and the actual revision; reject damaged connectors or housing.         |
| Work safety            | Qualified personnel only. Apply the approved isolation and hazardous-area procedure. |
| Mounting provision     | Use TS32 or TS35 DIN rail, in the documented horizontal or vertical orientation.     |
| Fibre clearance        | Allow at least 200 mm on either side; confirm the selected cable bend radius.        |
| Link arrangement       | Confirm six units and six fibres for the complete three-path remote connection.      |

### 02 PREPARATION AND BOUNDARIES

- Use ESD precautions. Do not touch exposed connector pins or open the enclosure.
- Do not make or break live connections in a hazardous atmosphere. Use the full OEM warnings and project safety procedure.

03  
INSTALLATION AND COMMISSIONING

|    |                                                                                                                                                 |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 01 | Confirm the exact suffix, hardware revision, approved cabinet position and DIN rail mounting arrangement.                                       |
| 02 | Route the optical cables without exceeding their bend limits and preserve the stated installation clearance.                                    |
| 03 | Match TC-302-01 and TC-303-01 to the controller and remote sides respectively. Use the complete OEM connector tables.                           |
| 04 | Verify the specified single-mode fibre and SC transmit/receive connections across all three independent paths.                                  |
| 05 | Check the nominal 24 V DC feeds within the 18-32 V DC range. Refer to the original power-connection table; do not wire from the schematic here. |
| 06 | For routes over 2 km, survey propagation timing and the system timeout. Check communication using expander diagnostics before service.          |

04  
SAFETY AND FINAL CHECKS

- The three link paths must meet the specified maximum 80 ns propagation-time difference.
- This original reference is not a wiring plan. The complete current OEM manual and approved project documents govern installation.

05  
OFFICIAL PROCEDURE

ICSTT-RM269 | PD\_T8314 Issue 12 | June 2016

Overview pp. 1, 11-13; installation p. 15; cables p. 17; optics p. 19; connectors p. 21; ratings p. 23.

C-option scope: ICSTT-CT004L, page 2; confirm actual catalog suffix.

Independent Amikon summary, not an OEM manual. Follow the complete manufacturer instructions and approved project safety procedure. Original manual pages are not reproduced.

AMIKON PRODUCT SUPPORT

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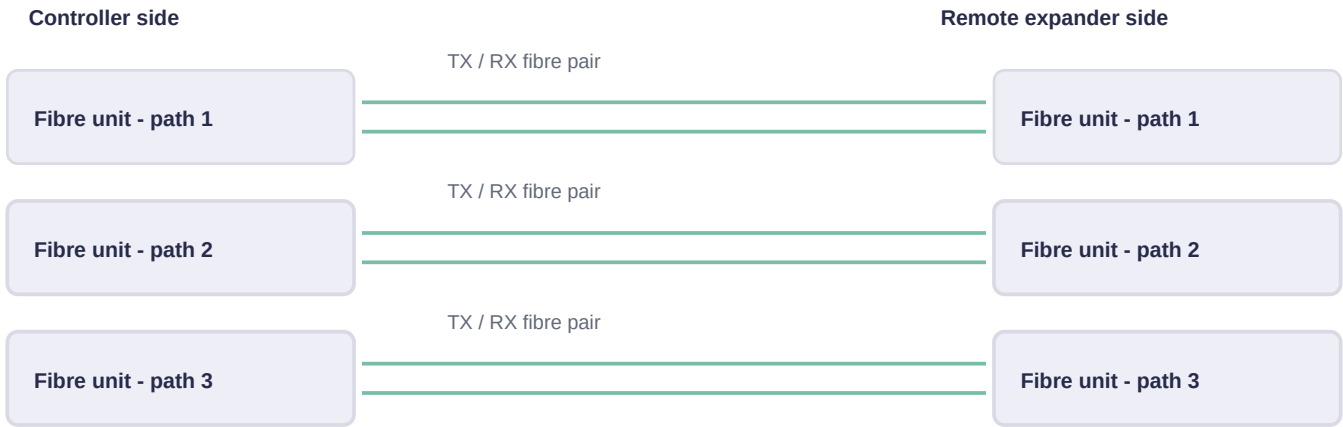
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06 ORIGINAL REFERENCE SCHEMATICS

ICS Triplex T8314 | Remote fibre connection

Original Amikon reference based on the OEM pages linked below. Logical arrangement only; not to scale and not an electrical wiring or approved installation drawing.

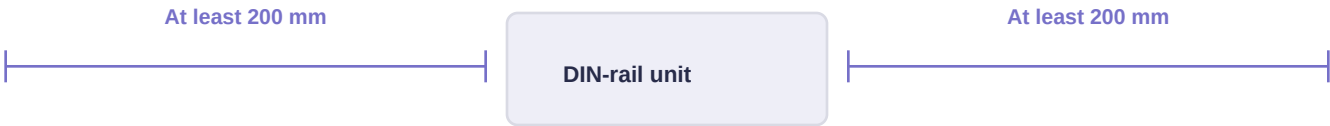
A | THREE INDEPENDENT OPTICAL PATHS



Six units and six fibres per complete remote link. Electrical cable selection: TC-302-01 at the controller and TC-303-01 at the remote expander.

OEM Figures 2 and 3: PDF page 12; arrangement text: page 13

B | FIBRE-ROUTING SPACE AROUND EACH UNIT



TS32 or TS35 rail; horizontal or vertical mounting. Space shown is the manual minimum. The selected optical cable may require more bend-radius space.

OEM installation and clearance: PDF page 15

OEM electrical connector tables: PDF page 21 (not reproduced)

Verify optical routing, power and the complete manufacturer warnings before work. Do not infer terminal numbering, cable polarity or live-work permission from these diagrams.

If the viewer ignores the page target, enter the stated PDF page number manually.