

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

ICS Triplex T8314C

Coated 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 T8314C 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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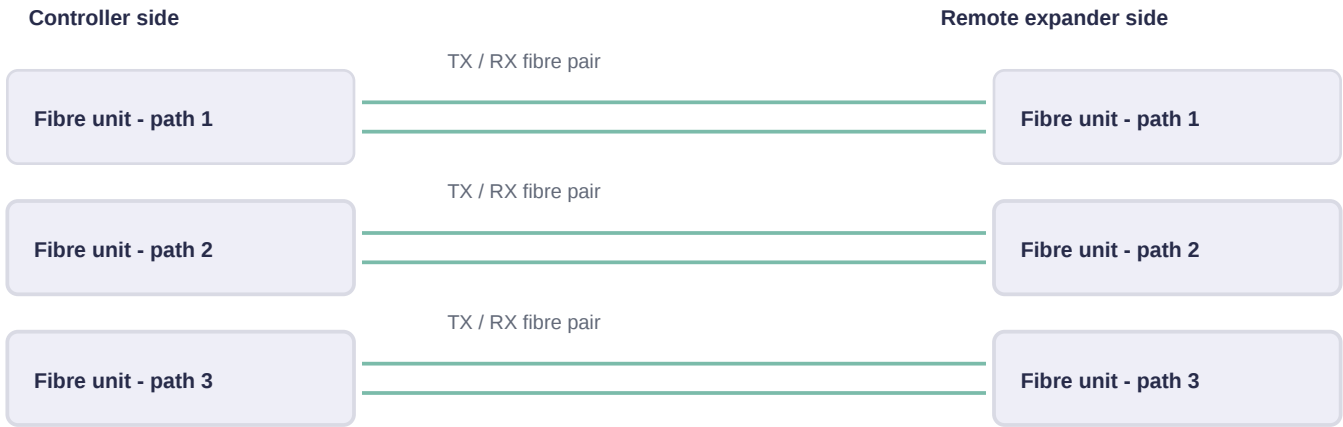
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06 ORIGINAL REFERENCE SCHEMATICS

ICS Triplex T8314C | 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.

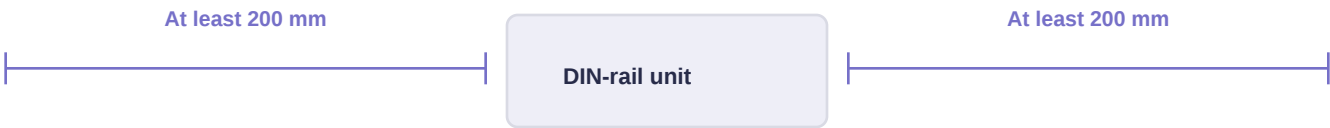
A | THREE INDEPENDENT OPTICAL PATHS



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.