



WESTERMO

Westermo LRW-702-F2 fibre-to-copper converter, TLON network

Product code 41068 · Fire alarm systems > Control equipment

Fibre modem and repeater for the LonWorks TP/FT-10 bus, for DIN rail mounting. It extends the copper section of a TLON network over fibre point to point, as a bus or as a redundant ring.

- LonWorks TP/FT-10, 78 kbit/s, transparent repeater function
- 1–2 SFP slots for multimode or single-mode fibre, up to 120 km
- Point to point, bus or redundant ring
- Alarm output for fibre fault indication
- Redundant supply 10–60 V DC or 20–30 V AC
- 35 mm DIN rail housing, operating temperature –40...+60 °C

Product description

Westermo LRW-702-F2 is a modem between the LonWorks® bus (TP/FT-10) and a fibre-optic network. In the Panasonic TLON network, the fire alarm control panels communicate on a LonWorks TP/FT-10 channel, and with a fibre repeater the channel can be extended, for example between buildings, where copper cable is not possible or interference is a risk. The technical description of the TLON network names the Westermo LRW fibre repeaters (LRW-102 or newer) as the recommended solution.

Operation

The device operates as a repeater: the optical signal is regenerated, which removes jitter and ensures reliable data transfer. The device has two SFP slots, for which Westermo-approved multimode or single-mode fibre modules are selected. Depending on the module, the link can be single-fibre or up to 120 km long. With two fibre ports, a multidrop or redundant ring network can be built, and an alarm output indicates a fibre fault.

Installation

The housing is mounted on a 35 mm DIN rail. All interfaces are galvanically isolated and transient-protected. The redundant supply inputs can be connected to two separate sources; the operating voltage is 10–60 V DC or 20–30 V AC. The device meets the industrial EMC standards EN 61000-6-2 and EN 61000-6-4. SFP modules are ordered separately, for example the TLON LRW SLC20 SFP module for single-mode fibre.

Technical data

Product code	41068
Manufacturer	Westermo
Product group	Fire alarm systems > Control equipment
Weight	0.26 kg
Dimensions	34 × 123 × 121 mm (W × H × D)
Operating voltage	10–60 V DC or 20–30 V AC, redundant supply
Operating temperature	–40...+60 °C

IP rating	IP21
Rated current	400 mA / 12 V DC, 200 mA / 24 V DC, 100 mA / 48 V DC
Protocols	LonWorks TP/FT-10, 78 kbit/s
Connection	TP/FT-10; 1-2 × SFP (100 Mbit/s); status output on removable screw terminal
Range	Depending on SFP module, up to 120 km
Mounting	35 mm DIN rail
Standards	EN 61000-6-2, EN 61000-6-4
Manufacturer's code	Westermo 3651-1401

Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

Technical datasheet: TLON LRW-702-F2 fibre-copper converter

Installation guide: TLON LRW-702-F2 fibre-copper converter

Technical datasheet (series): TLON

Request a quote or ask for more information

Sales +358 40 668 7641 · myynti@pap.fi · Mon–Fri 8 am – 4 pm (Finnish time)

Up-to-date information and documents: pap.fi/en/tuote/tlon-lrw-702-f2-kuitu-kuparimuunnin/