

## Features

- ❖ Compact Din Rail Mounted
- ❖ Available in three versions for FTT10 Free Topology, FTT10 Bus Topology and 78K/1250 Bus Topology versions
- ❖ Isolated terminations
- ❖ Simple Installation
- ❖ Clearly visible, saves time trouble shooting network problems
- ❖ Conforms to LonMark Interoperability guidelines for termination of LonWorks EIA709 twisted pair networks



## Description

As part of CNS's Lon Network Infrastructure Product Family (LNIP's) this product compliments our Compact LonRouter, LonRepeater family as well as our eNode™IV Lon/IP852 Routing products and LonFibre products. For more information on these other products please visit [www.control-network-solutions.co.uk](http://www.control-network-solutions.co.uk).

Termination is required on all cable networks in order to cancel out ghosts and reflections, which occur when signals are transmitted onto the cable. Without termination, the signal can be degraded beyond the ability of receivers to pick up and decode the signal. The degradation of signals is affected by the topology of the cable system i.e. how it is wired together. There are two types of cable topology in use free topology and bus topology.

Free Topology allows installers to wire networks with complete freedom of topology with up to 64 nodes and 500 metres of cable. Nodes can be simply connected together in the most convenient manner with the shortest cable runs. There must be single terminator at one point anywhere on the network ideally as centrally positioned as possible.

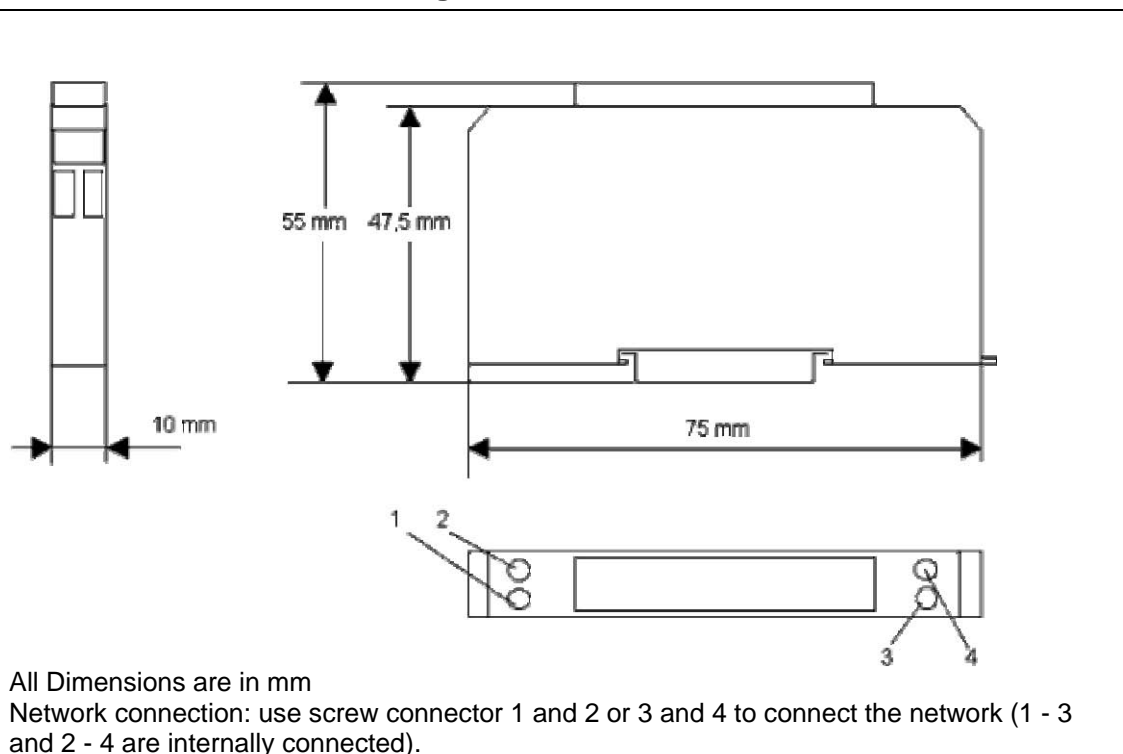
Bus Topology requires a structure of a single cable run up to 2700 metres at 78Kbps or 130metres at 1.25Mbps with a double termination, one at each end. Nodes must be connected with short stubs on to the bus.

These LonTerminator-III devices allow termination of any of these LonWorks network types. It is Din Rail Mountable to allow easy fitting, is clearly labelled and requires no prior knowledge of LonWorks networks to install.

## Specification

| Technical Data              |  |
|-----------------------------|--|
| Operating temperature range | -25...+50 °C   |
| Storage temperature range   | -55...+70 °C   |
| Relative humidity           | 0...95 % rel. annual average (non-condensing)  |
| Environmental protection    | IP 20 (screw), IP 40 (housing)   |
| Installation                | DIN-rail mounting to EN 50 022   |
| Housing                     | EMG10 (PHOENIX), material KRILEN, colour green, cover polycarbonate (transparent)                        |
| Network connection          | screw terminals, 0.2...2.5 mm <sup>2</sup> (stranded), 0.2...4.0 mm <sup>2</sup> (solid)                 |
| Function Specific Data      |  |
| Impedance                   | 105 Ohm (LonTerm3) respectively 52.3 Ohm (LonTerm2)  |
| Part Number                 | Description  |
| LonTerm1                    | For TP/XF-78 and TP/XF-1250, BUS-Topology. Both ends of bus must be terminated - two terminators needed! |
| LonTerm2                    | For TP/FT-10, Free Topology. <b>Only one terminator needed.</b>  |
| LonTerm3                    | For TP/FT-10, BUS-Topology. Both ends of bus must be terminated - <b>two terminators needed!</b>         |

### Dimensions / Connection Diagram



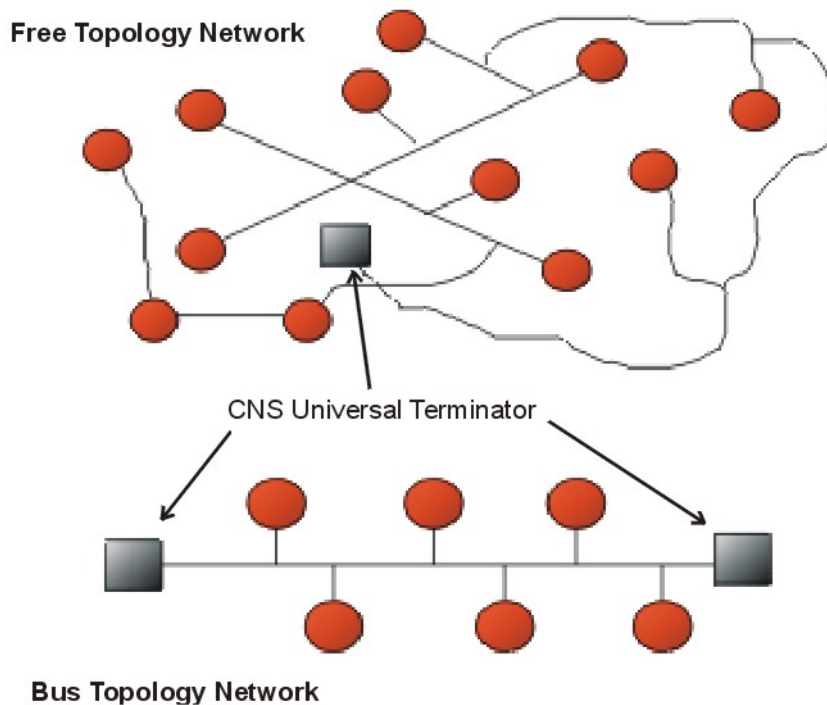
## User Information

The CNS LonTerminatorIII is designed to provide electrical termination for the standard twisted pair LonWorks networks, i.e. TP/FT-10, LPT-10, TPT/XF1250, and TPT/XF78

On a free topology TP/FT-10 channel the CNS LonTerminatorIII can be attached anywhere on the channel at the installers choice and convenience – one is required somewhere on the channel. However, there are recommended guide lines for ideally where to position the terminator. Please refer to FAQ section via CNS Home page or visit [www.echelon.com](http://www.echelon.com).

In a bus topology network for TP/FT-10, LPT-10, TPT/XF1250 or TPT/XF78 media, two CNS LonTerminatorIII's are required, one to be fitted at each end of the network segment.

Installation of the CNS LonTerminatorIII simply requires the device to be snapped onto a Din rail and network connections are made via the network screw connectors into the appropriate connector on the terminator dependent upon the type of network topology and media being used.



## Contact Details

### Control Network Solutions Ltd

Studio 7, Intec 2, Intec Business Park, Wade Road  
BASINGSTOKE,  
Hampshire, RG24 8NE, England

Tel: +44 (0) 1256 818700

Fax: +44 (0) 1256 812520

Email: [cns@control-network-solutions.co.uk](mailto:cns@control-network-solutions.co.uk)

Web: <http://www.control-network-solutions.co.uk>

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