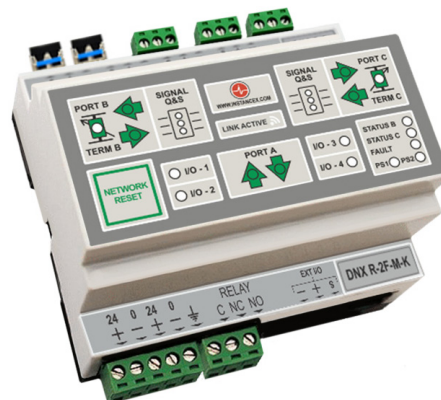# KENTEC-DNX-R

Intelligent Optic Fire Communication interface for reliable data communication

OVERVIEW

The KENTEC-DNX-R Node for both Radial and Ring Topology Network is designed to improve the Quality of Service (QoS) of critical communication networks while operating under the performance criteria required by EN54-13 and BS5839 part 1. The KENTEC-DNX-R are supplied in a range of models complete with the relevant transceiver based on the networks configuration and function in the DNP(Passive) mode being a plug and play solution.

Networks can be connected by one or any combination between modems of Single mode, Multi-mode or copper cabling
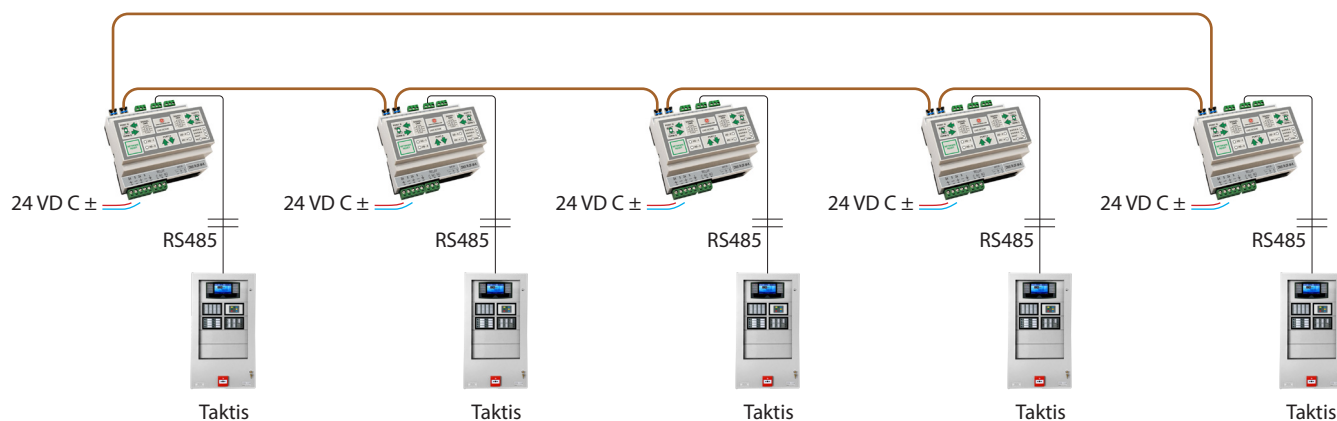
The KENTEC-DNX-R is designed to connect directly to either the SYNCRO AS or the TAKTIS Fire Alarm Panels, be DIN mounted and the Baud rate is selectable to suit the SYNCRO AS or TAKTIS Panels

The KENTEC-DNX-R use a range of transceivers without the need to use the same specification transceiver on port B and C, allowing for the option of Multi-mode on one port and Single mode on the other. This feature supports full optimisation of transceiver selection as required to support a range of different fibres across the network.
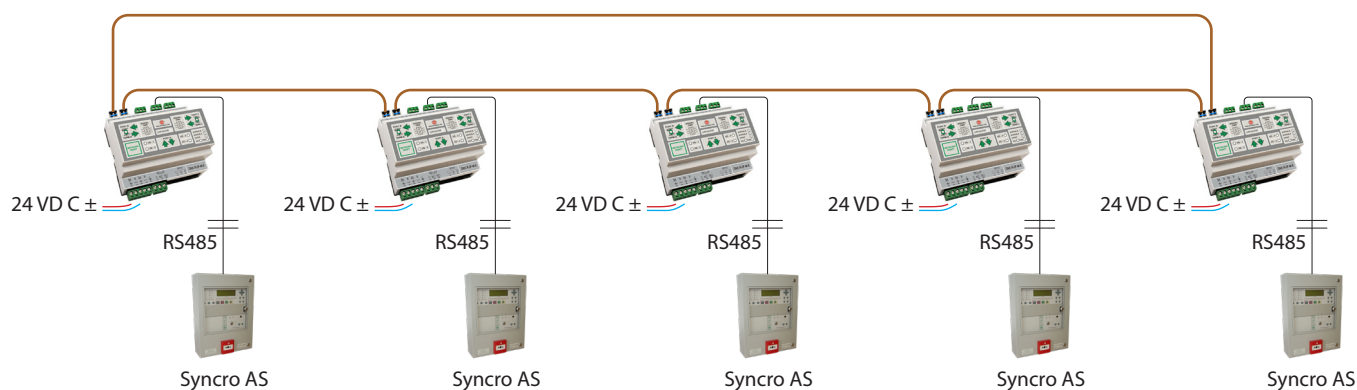
FEATURES

- Independent Reporting with Class A communication redundancy with multiple fault tolerance
- 2.5 kV Galvanic Isolation on all Ports
- Support of single and dual port industrial equipment RS-485 connections
- Support for a range of SFP transceivers to suit
- Simple LED status indication for Fibre and RS-485
- SFP transceivers implemented with DOM support, providing information on: Tx/Rx Power(dBm), Laser Current(mA), Temp(°C) and Supply voltage(V) to monitor, qualify and maintain optic fibre infrastructure
- Support for the generation of system performance reports required for installation commissioning
- Enables preventative maintenance management through system degradation monitoring
- Configuration and commissioning parameters are stored allowing for system performance tracking over time
- Ports B or C with RS-485 transceivers have adjustable termination to correctly match the loop cabling segment

TAKTIS NETWORK (Up to 127)

24 VDC ±	24 VDC ±	24 VDC ±	24 VDC ±	24 VDC ±
RS485	RS485	RS485	RS485	RS485
Taktis	Taktis	Taktis	Taktis	Taktis

SYNCRO AS NETWORK (Up to 64)

24 VDC ±	24 VDC ±	24 VDC ±	24 VDC ±	24 VDC ±
RS485	RS485	RS485	RS485	RS485
Syncro AS	Syncro AS	Syncro AS	Syncro AS	Syncro AS

LEGEND

KENTEC-DNX-R...   2.5kV Isolation   Taktis   Syncro AS

MAX DISTANCE BETWEEN MODEMS

Multi-mode Fibre	-	2km
Single-mode Fibre	-	10km
Copper	-	1km

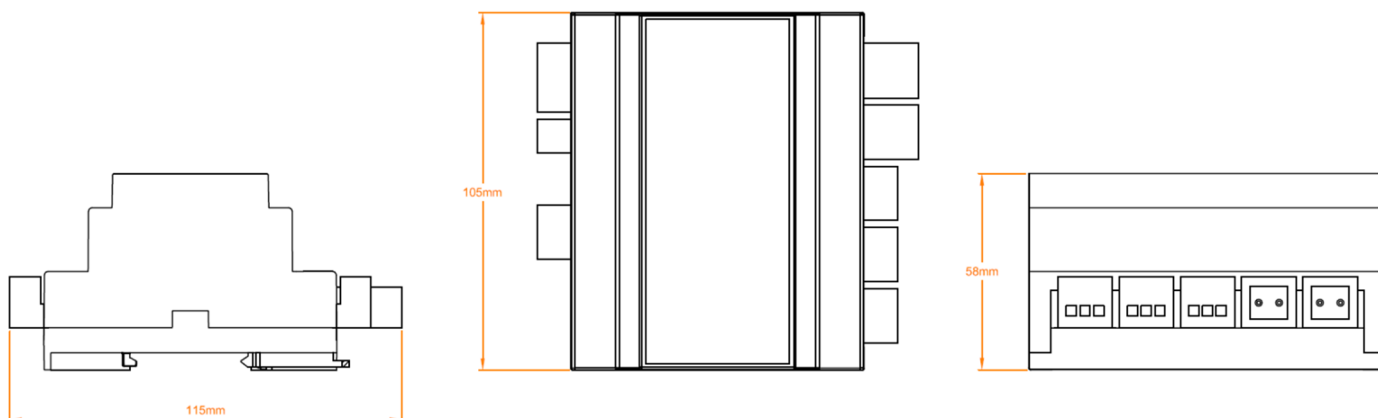| Part Number	Description	IN	OUT
KENTEC-DNX-R-2F-M	DNX Kentec Dual Multi-mode Fibre Converter c/w LC dual fibre connection per channel	Multi Mode Fibre (1Tx & 1Rx)	Multi Mode Fibre (1Tx & 1Rx)
KENTEC-DNX-R-2F-S	DNX Kentec Dual Single-mode Fibre Converter c/w LC dual fibre connection per channel	Single Mode Fibre (1Tx & 1Rx)	Single Mode Fibre (1Tx & 1Rx)
KENTEC-DNX-R-2FC-M	DNX Kentec Hybrid RS485 to Multi-mode Fibre Converter c/w LC dual fibre connection	Copper	Multi Mode Fibre
KENTEC-DNX-R-2FC-S	DNX Kentec Hybrid RS485 to Single-mode Fibre Converter c/w LC dual fibre connection	Copper	Single Mode Fibre (1Tx & 1Rx)
KENTEC-DNX-R-2R	DNX Kentec Dual RS485 Repeater	Copper	Copper
KENTEC-DNX-R-BIDI-2F-S	DNX Kentec Dual Bi-Directional Single-mode Fibre Converter c/w LC single fibre connection per channel	Single Mode Fibre (1Tx/Rx)	Single Mode Fibre (1Tx/Rx)

*Other models and combinations available on request

Specifications

Dimension Diagram

Dimensions:	115 X 105 X 58 mm
Weight:	200g
Mounting:	DIN Rail EN60715 (width 35 mm)

Power

Operating Voltages:	18V – 36V (24V DC Nominal)
Rated Current:	250mA (at 24V)

Interfaces

Taktis / Syncro RS-485:	Port A1: RS-485 Taktis / Syncro Interface
	Port A2: RS-485 Taktis / Syncro Interface
Network Optic Fibre RS-485:	Port B: IN Network Interface
	Port C: OUT Network Interface

Temperature

Operating:	-10 to 50°C
Storage:	-40 to 70°C

Agency Approvals and Standards

CE, RoHs, WEEE compliant

EMC:	EN 61000-6-2, Immunity Standard (Industrial Environments)
	EN 61000-6-4, Emission Standard (Industrial Environments)
Safety:	EN 60950, IT Equipment