

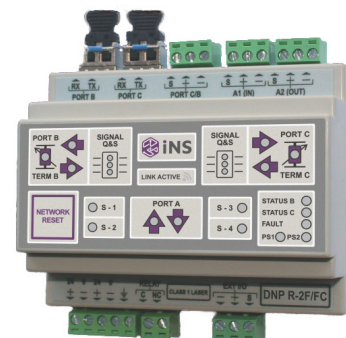
DNP-R-2F/FC-K

Passive Dual Port Optic Fibre/RS485 Medium Converter



Features

- ▶ Support Full Fibre or RS485/Fibre configurations
- ▶ Only one module required per panel
- ▶ Simple LED status indications provide detailed diagnostic info
- ▶ Supports INS Small Form-factor Pluggable (SFP) Fibre Optic transceivers
- ▶ Redundant power supply connections for increased reliability
- ▶ Baud rate selectable (9600 - 115200 bits/sec)
- ▶ DIN rail mounting
- ▶ Support of single and dual port industrial equipment



Description

The DNP-R-2F/FC-K is a full fibre or hybrid copper/fibre modem, developed for use with fire panels in the life safety industry. The equipment 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.

DNP-R-2F/FC-K is designed to support dual fibre connectivity (Fibre in/ Fibre out) using the range of INS Small Form-factor Pluggable fibre optic transceivers. INS transceivers are available to support single-mode, multi-mode and Bi-Directional fibre optic cables with distances of up to 160km*.

DNP-R-2F/FC-K is also designed to support fibre optic to RS485 copper wiring which allows sections of an RS485 network to be converted to fibre optic cables either for enhanced transmission distances or to overcome problems with EMI (Electro-Magnetic Interference).

Configuring the module for fibre or RS485 fibre configurations is done through a single switch option.

Simple LED indications provide detailed information regarding the communication status of each port, signal quality, transceiver status etc.

iNS Products

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INS SFP fibre optic transceivers

INST-SFP-MM-01-K	iNS SFP Multi-mode fibre optic transceiver [550m]
INST-SFP-SS-20K-1	iNS SFP Single mode fibre optic transceiver [20Km]

INS SFP Bi-Directional single fibre optic transceivers (one of each required)

INST-SFP-BiDi-10K-AB-1	iNS [10km Range] Single Fibre - 1550nm Tx/1310nm Rx Optic Fibre SFP Transceiver to populate DNP-R-2F/FC-K
INST-SFP-BiDi-10K-BA-1	iNS [10km Range] Single Fibre - 1310nm Tx/1550nm Rx Optic Fibre SFP Transceiver to populate DNP-R-2F/FC-K

*Transmission distance is dependent on the selected transceiver.

Specification

Operating Voltage	18 to 36V (24V DC nominal)
Rated Current	250mA (at 24V)
RS485	Port A1: Selectable Fixed Termination, in accordance with EIA RS485 Port A2: Selectable Fixed Termination, in accordance with EIA RS485
Fibre Optic/RS485	Port B: Fiber Optic, SFP Connector (Specification as per selected SFP transceiver) Port C Dual Fibre: Fibre Optic, SFP Connector (Specification as per selected SFP transceiver) Port C RS485/Fibre: Selectable Fixed Termination, in accordance with EIA RS-485 Port A1, A2 & C (RS485/Fibre mode): Isolated (2.5kV) Baud Rate: 9600 to 115200 (selectable / configurable)
USB	USB Micro-B connection (Device / Slave Mode)
Operating Temperature	-10 to 50°C
Storage Temperature	-40 to 70°C
Approvals and Standards	CE, UKCA, 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
Dimensions	115 X 105 X 58 mm
Weight	200g
Mounting	DIN Rail EN60715 (width 35 mm)

Dimensions (mm) (Not to Scale)

