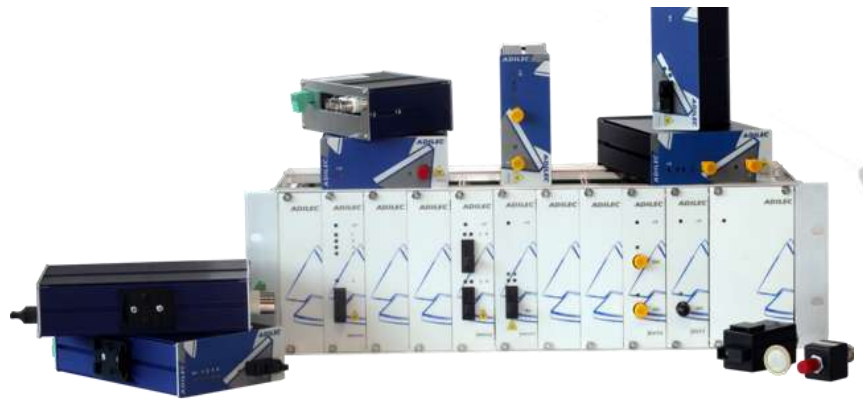




Communication Systems over Fiber Optic & Ethernet.



Since 1987, Developed, Created and Made in Spain.

www.adilec.com



Applications :

Security

- ▲ Surveillance TVCC_CCTV
- ▲ Access control
- ▲ Traffic signalization systems, traffic monitoring
- ▲ Perimeter control systems by sensors.



Infrastructure

- ▲ Point to point connection for communication systems in:
 - Road / Rail / Harbor
 - Extensive infrastructures and long tunnels communication by video and data transmission, panels, acces control,...

Industry

- ▲ Automations control
- ▲ Robotic management
- ▲ PLC 's Control



Ethernet

- ▲ Ethernet networks
- ▲ Combo links IP + Fiber.
- ▲ IP Surveillance



Range of products:

Basic series

Multimode at 850nm, at distances up 4 Km.

▶ **VIDEO**TVI04 Miniature /RVI21L11

Standard Series

Multimode 1310nm up 6 Kms.

Singlemode: 1310nm up 50 Kms.

▶ **VIDEO** NTVI4/NTVI1_NRVI1

▶ **VIDEO HDSDI**.....THD_RHD

▶ **VIDEO + DATA HDSDI**.....DHD5_D5HD

▶ **VIDEO + DATA + CONTACT**NDV5_ND5V

▶ **VIDEO + DATA + AUDIO + CONTACT**.....NDV6_ND6V

▶ **VIDEO + CONTACT**NTVO_NRVO

▶ **CONTACT** NT08_NR08NT16_NR16....NDO8

▶ **DATA**NDR6

▶ **MULTIPLEXER VIDEO 4 CHANNELS**MTVI4_MRVI4

▶ **MULTIPLEXOR VÍDEO 4 CANALES + 1 DATOS +1 CONTACTO**.....MDV5/MD5V

▶ **MULTIPLEXER VIDEO 4 Ch + DATA + AUDIO + CONTACT**MDV6_MD6V

▶ **MEDIA CONVERTER 10/100Tx TO 100 Fx**..... EM1 / EP1 (PoE+ up 25.5W)

▶ **ETHERNET SWITCH**ES1 / ES2

▶ **BREAKAGE DETECTOR**.....NSF6



Transmission advantages on Adilec devices:

- ▶ **Longer distances and High quality image transmission at real time.**
 - Fiber Optic versions:**
 - **Multimode 850nm up 4 Km.**
 - **Multimode 1310nm up 6 Km.**
 - **Singlemode 1310nm up 50 Km.**
 - **Optional 1550nm under demand.**
- ▶ **Electronic and mechanically designed for outdoor applications. Under best digital technology offers the best protection for interventions.**
- ▶ **Maximum transmission reliability.**
- ▶ **Industrial Temperature range: -40° to 74°C. Outdoor applications.**
- ▶ **Plug & Play design, ready for install and operate, without adjustments.**
- ▶ **Video devices: Compatible PAL, NTSC y SECAM**
- ▶ **Data option: Transmissions as per standard EIA/TIA/RS-232,422 and 485.**
- ▶ **Frontal led signal making easier installation and verification.**
- ▶ **OEM and Custom versions under demand.**
- ▶ **RoHS compliance for all processes and CE certification**



Housing Formats



Standalone (Vertical & Horizontal)
(Support included)



DIN rail
(Module supports included)



Standalone Mini (Vertical)



Miniature (only video)



Rack-Card / PAWAL 19" 3U

Video devices



• Video

TVI04 / RVI21

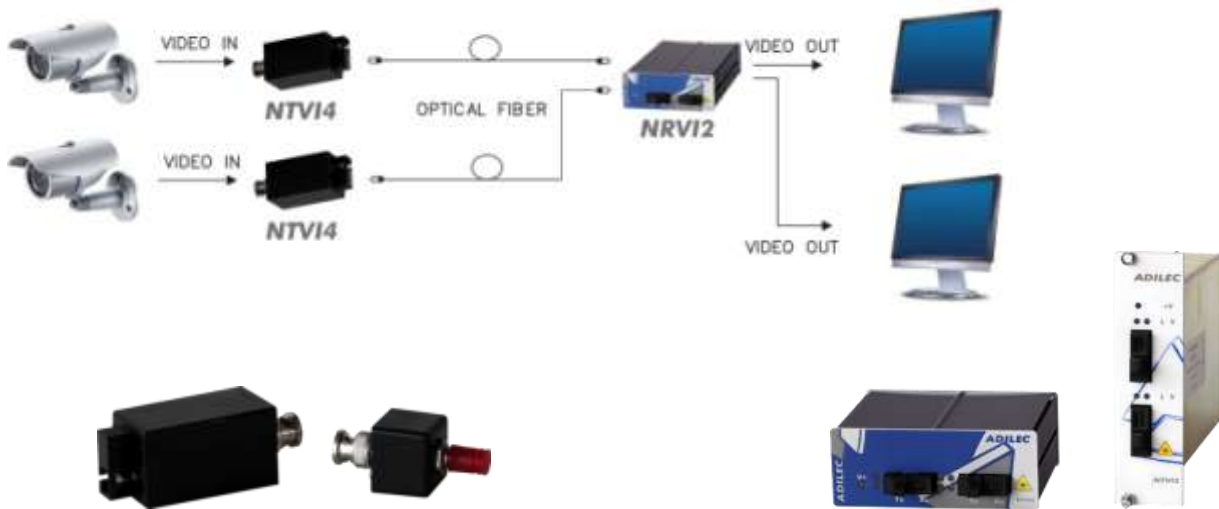
850nm MM

1 F.O.

NTVI4 / NTVI1-2 / NRVI1_2

1310nm MM & SM

1 F.O.



TVI4 / RVI Series

- ▶ Distances: 4 Km MM at 850nm
- ▶ Power supply: 12 Vdc (Standalone/Miniature) or PAWAL BUS (Rack-Chassis)
 - ▶ Ref. AL12 switched 100 a 240 Vac 450 mA
- ▶ Fiber Connector: ST
- ▶ RVI Series A.G.C. Automatic Gain Control

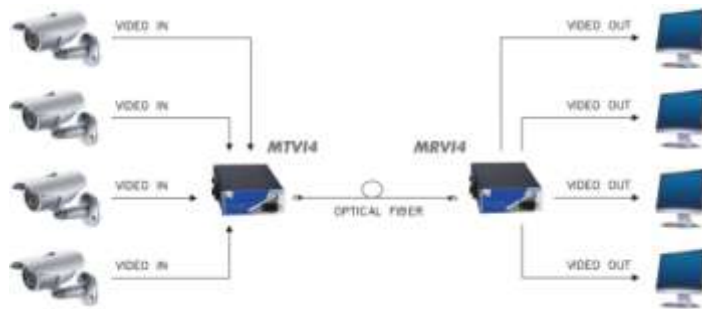
NTVI4 Series

- ▶ Distances: 6 Km MM at 1310nm
- ▶ 50 Km SM at 1310nm
- ▶ Power supply: 10-24Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
 - ▶ Ref. **AL12** switched 100 a 240 Vac 450 m
- ▶ Fiber Connector: SC-PC

Multiplexers

• Multiplexer 4 Video channels

MTVI4_MRVI4 **1310nm** **MM & SM** **1 F.O.**



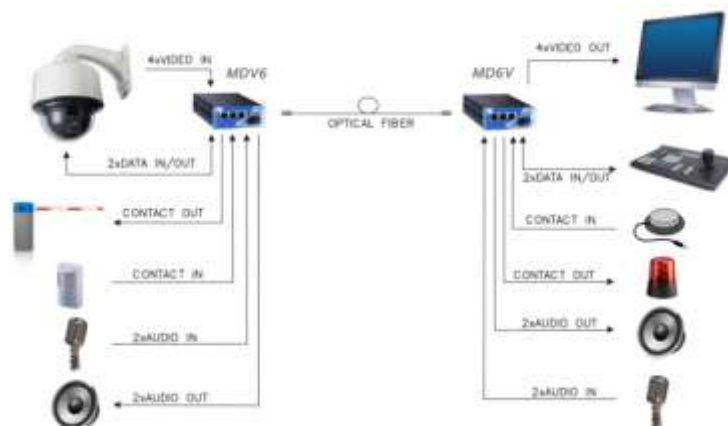
• Multiplexer 4 Ch Video + 1 Data + 1 Contact

MDV5_MD5V **1310nm** **1310/1550nm** **MM & SM** **1 F.O.**



• Multiplexer 4 Video Channels + 2 Data + 2 Audio + 1 Contact

MDV64_MD6V4 **1310nm** **1310/1550nm** **MM & SM** **1 F.O.**

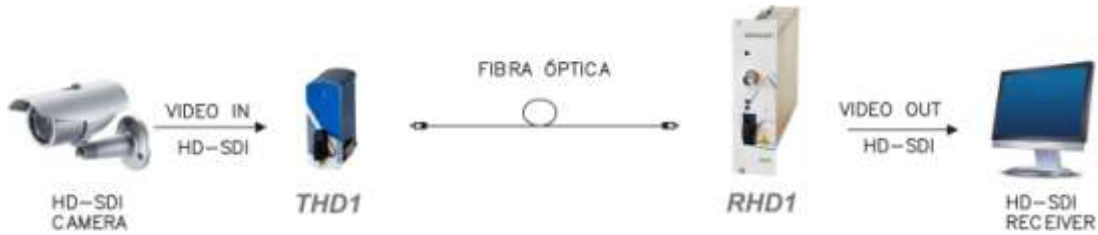


- ▲ Distances: 6 Km MM at 1310nm
- ▲ 50 Km SM at 1310nm ó 1310/1550nm
- ▲ Power supply: 10-24Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
 - ▲ Ref. **AL12** switched 100 a 240 Vac 450 mA
- ▲ Data Transmissions as per standard EIA/TIA/RS-232,422 and 485.
- ▲ Fiber Connector: SC-PC

Video + Data *HDSDI*

• Video

THD_RHD 1310nm MM & SM 1 F.O.

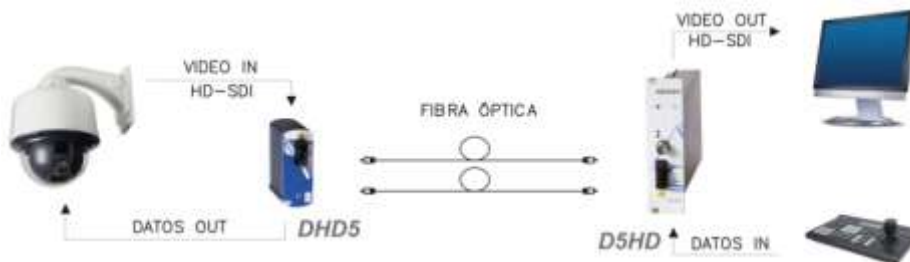


- ▶ Distances: 2 Km MM at 1310nm
- ▶ 30 Km SM at 1310nm
- ▶ Power supply: 10-24Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
 - ▶ Ref. **AL12** switched 100 a 240 Vac 450 m
- ▶ Fiber Connector: SC-PC



▶ Vídeo + Data

DHD5_D5HD 1310nm MM & SM 1 F.O.



- ▶ Distances: 2 Km MM at 1310nm
- ▶ 30 Km SM at 1310nm
- ▶ Power supply: 10-24Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
 - ▶ Ref. **AL12** switched 100 a 240 Vac 450 m
- ▶ Fiber Connector: SC-PC

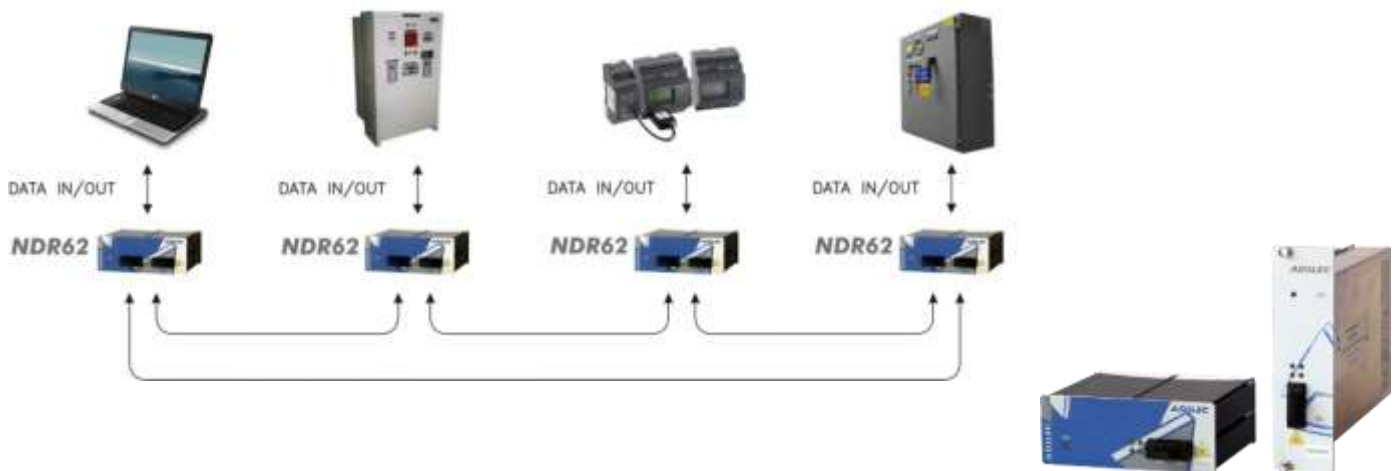


Data devices

• OPTIC DATA TRANSCEIVER RS232/422/485

NDR6 1310nm 1310/1550nm MM & SM 1-2 F.O

NDR6 family is designed to work in close loop, adding redundancy to the system. Also could work point to point connection with or without redundancy, or as a repeater substation.



NDR6 Series

- Distances: 6 Km MM at 1310nm
- 50 Km SM at 1310nm _ 1310/1550nm
- Power supply: 10-24Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
 - Ref. **AL12** switched 100 a 240 Vac 450 mA
- Data Transmissions as per standard EIA/TIA/RS-232,422 and 485.**
- Fiber Connector: SC-PC

Combos



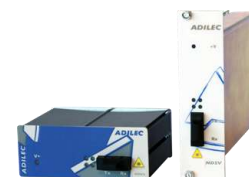
• Video + Contact

NTVO_NRVO 1310nm MM & SM 1 F.O.



• Video + Data Transceiver + Contact

NDV5_NDV5V 1310nm 1310/1550nm MM & SM 1 F.O.



• Video + 2 Data transceiver + 2 Audio + Contact

NDV6_NDV6V 1310nm 1310/1550nm MM & SM 1 F.O.



NTVO/NRVO _ NDV5/ND5V _ NDV6/ND6V Series

- Distances: 6 Km MM at 1310nm
50 Km SM at 1310nm _ 1310/1550nm
- Power supply: 10-24Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
 Ref. **AL12** switched 100 a 240 Vac 450 mA
- Data Transmissions as per standard EIA/TIA/RS-232,422 and 485.
- Fiber Connector: SC-PC



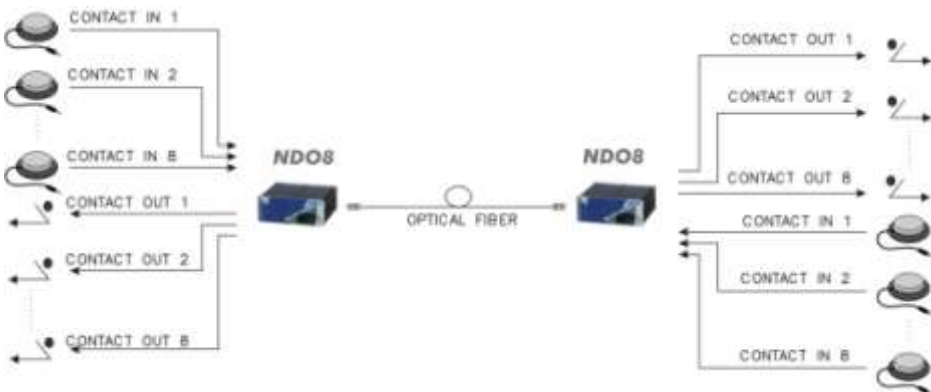
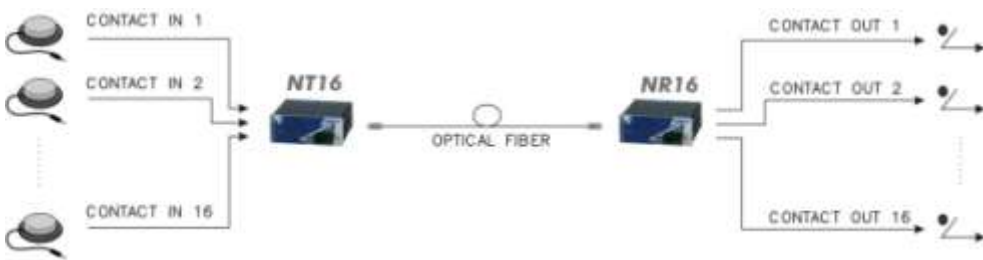
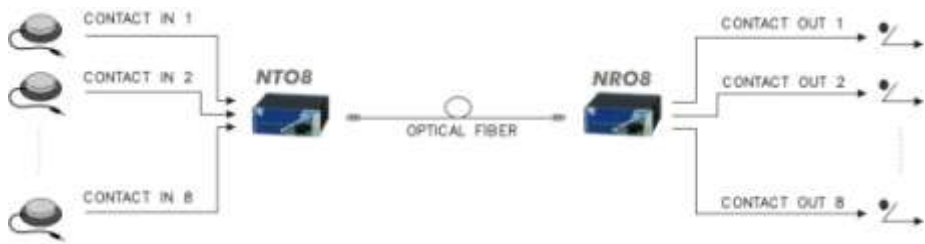
ON/OFF Contacts



• Contacts ON/OFF

NT08_NRO8 **8 Contactos**
NT16_NR16 **16 Contactos**
NDO8 **8+8 Bidireccional**

1310nm 1310/1550nm MM & SM 1-2 F.O.



- ▲ Distances: 6 Km MM at 1310nm
50 Km SM at 1310nm _ 1310/1550nm
- ▲ Power supply: 10-24 Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
 ▲ Ref. **AL12** switched 100 a 240 Vac 450 mA
- ▲ Fiber Connector: SC-PC

Ethernet devices



• MEDIA CONVERTER

1x 10/100Base-TX + 1x 10/100Base-FX 1 or 2 F.O.

EM1 1310nm 1310/1550nm 1550/1310nm

EP1 (PoE+ up 25.5W)



• SWITCH

4x 10/100Base-TX + 1x 100Base-FX 1 or 2 F.O.

ES1 1310nm 1310/1550nm 1550/1310nm



• SWITCH

3 x 10/100Base-TX + 2x 100Base-FX 1 or 2 F.O.

ES2 1310nm 1310/1550nm 1550/1310nm



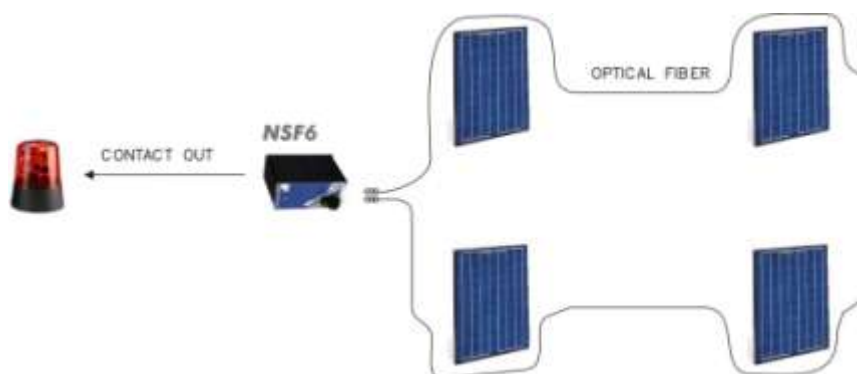
- ▲ Distances: 4 Km MM at 1310nm
30 Km SM at 1310nm _ 1310/1550nm
- ▲ Power supply: 12 Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
▲ Ref. **AL12** switched 100 a 240 Vac 450 mA
- ▲ Communication detection automatic (Half Duplex or Full Duplex)
- ▲ Transmission speed 100Mbps Fast Ethernet 10/100Base TX
- ▲ Fiber Connector: SC-PC

Breakage detector

- **TX and RX CONTACT Alarm mode**

NSF6 1310nm MM & SM 1 F.O.

▲ This allows the detection of the theft of items that are mechanically pierced by the fiber cable as can be, for example, solar panels.



- ▲ Distances: 6 Km MM at 1310nm
50 Km SM at 1310nm _ 1310/1550nm
- ▲ Power supply: 10-24 Vdc (Standalone) or PAWAL BUS (Rack-Chassis)
 ⚡ Ref. **AL12** switched 100 a 240 Vac 450 mA
- ▲ Connector: SC-PC



Accesorios

- ▶ **PAWAL**: Chassis of 19" 3U including a power supply module and a BUS allowing store up 10 devices.
- ▶ **TP7** : Cover tap for free slots.
- ▶ **AL12**: Adilec 's switched power supply provides a stable tension with a wide tolerance margin to Standalone or miniature modules. (100 to 240 Vac / 12 Vcc / 450 mA)
- ▶ **MDR20**: Power Supply Module DIN Rail – 20W (5V,12V,15V y 24V)
- ▶ **MDR40**: Power Supply Module DIN Rail – 40W (5V,12V,15V y 24V)



