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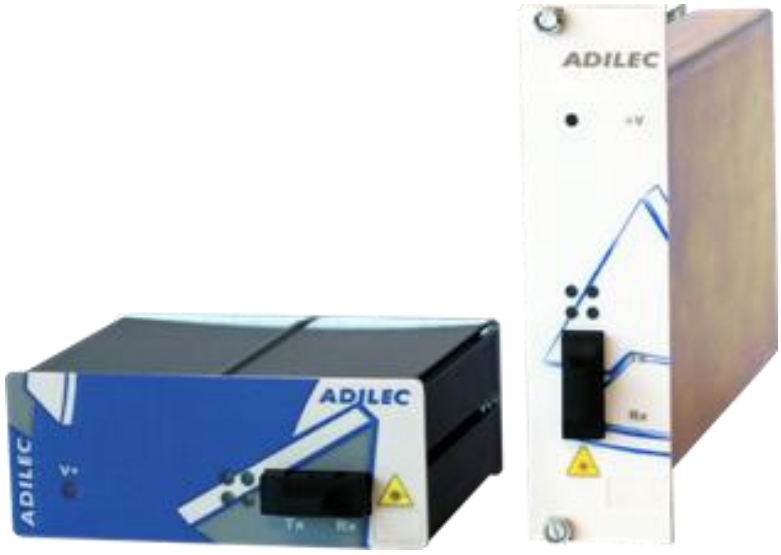
Since 1987 Developed, Created and Made in Spain

NTVO/NRVO



VIDEO & CONTACT TRANSMITTER/RECEIVER

CONTENTS

NTVO / NRVO

VIDEO + CONTACT

NTVO
TX Video + Contact

NRVO
RX Video + Contact

1 Fiber Optic

(-40° a 74°C) Industrial range

- ***Transmitter / Receiver of vídeo + contact for links point to point over optical fiber, up 4.5 km on Multimode and 50 km on Single mode.***
- ***Power supply: from 12 to 24 Vac/Vdc.***
- ***Mechanical formats: Standalone/DIN Rail y Rack-card (PAWAL)***
- ***Industrial temperature range (-40 to 74°C).***

NTVO/NRVO devices allow links point to point for digital video + contact over fiber optic reaching distances up 50 km over 1 F.O. Led light signal help to verify power supply, link and a correct activity. Designed for Plug and Play installation, any manual adjustment is required.

A Digital transmission provides a great image quality, security over communication and longer distances.
Mechanical formats: Rack-card for Chassis 19" 3U (PAWAL) and Standalone/ DIN rail.

Transmitter	Receiver	Wavelength	Connector	Fiber	Loss máx.[1]
NTVO12N11 NTVO12N16	NRVO12N11 NRVO12N16	1310 nm 1 x MM	SC	(62,5/125 o 50/125)	11dB (50/125: 4.5 km) [2] (62.5/125: 3.5 km) [2]
NTVO12M11 NTVO12M16	NRVO12M11 NRVO12M16	1310 nm 1 x SM	SC	(9/125)	19dB (9/125: 50 km)

11 = Rack (Pawal) 16 = Standalone/Carril DIN.

(1) Attenuations: At 1310nm, 1dB/km for 62.5/125 and 0.7dB/km for 50/125. For 9/125, 0.3dB/km. (Ideal conditions)
(2) Maximum distance restriction due to the fiber modal bandwidth (with ideal conditions)

Technical specifications:

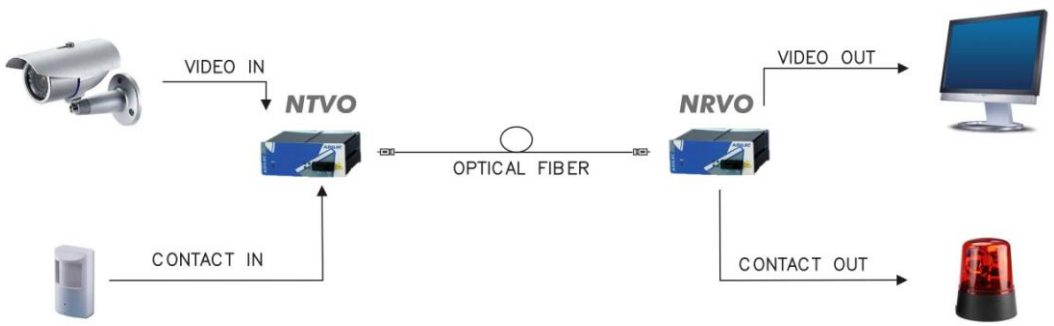
Video	
Input/Output impedance	75 Ω
Input/Output voltage	1,2 Vppmax
Video connector	BNC
Bandwidth	10 Hz – 6 MHz
SNR	> 60 dB
Sync error	< 5.0 %
Differential gain	< 2.5 %
Differential phase	< 2º
C/L gain	< 5 %

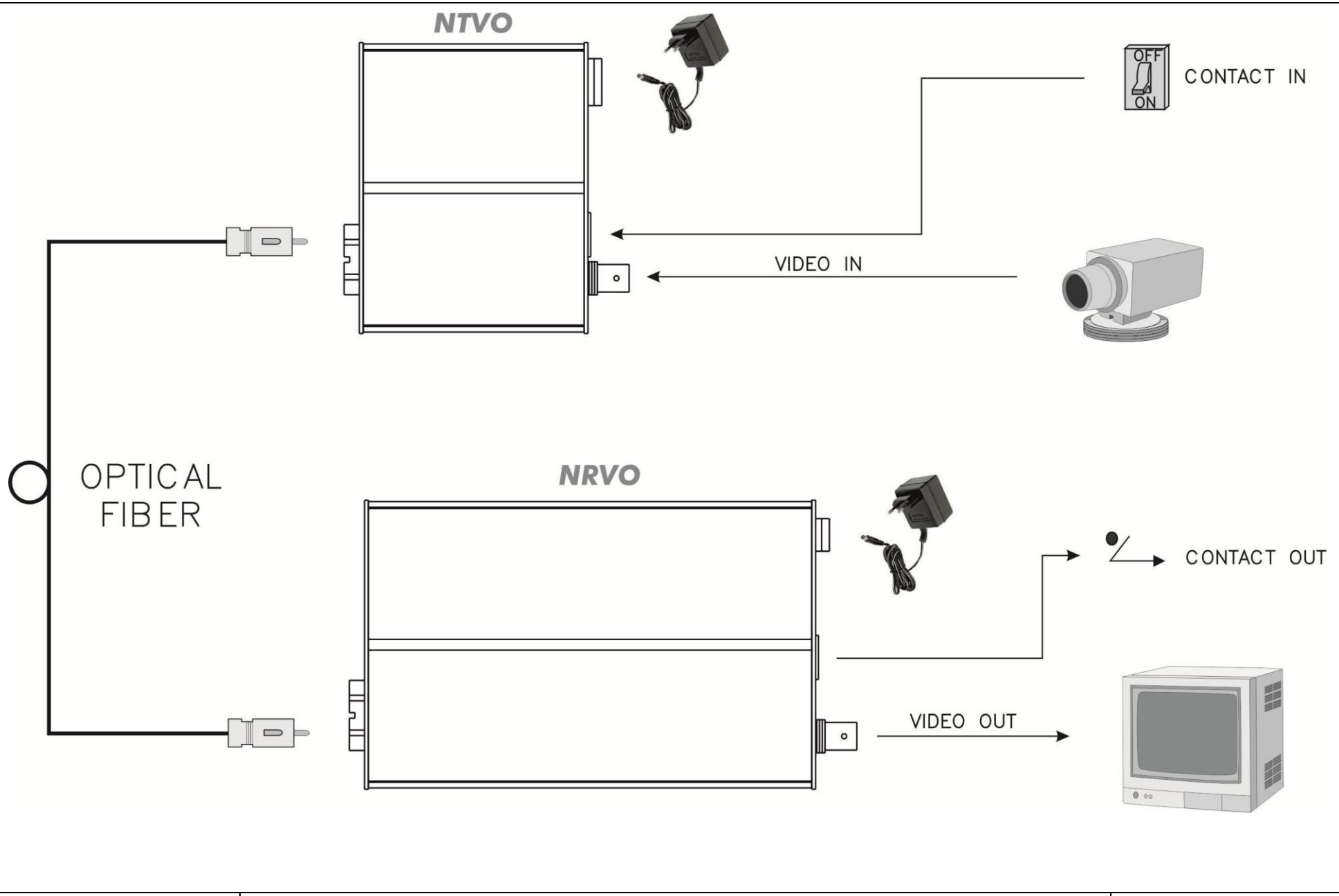
Contact	
Input	Dry contact
Max. Output voltage	250 Vac / 350Vdc
Max. Output Current	25 mA

Optic characteristics	
Multimode optical power	-19dBm
Multimode receiver sensitivity	-30dBm
Singlemode optical power	-15dBm
Singlemode receiver sensitivity	-34dBm

General	
Consumption NTVO (Tx)	125 mA / 12 Vdc
Consumption NRVO (Rx)	130 mA / 12 Vdc
Power supply	PAWAL o 12-24 Vac/Vdc ± 15%
MTBF	100.000 hours
Dimensions NTVO/NRVO12x11 (rack) Weight	35×129×167 mm Sub-chassis 7TE,3U 445 gr
Dimensions NTVO12x16 (standalone/ DIN rail) Weight	41×106×84 mm 225 gr
Dimensions NRVO12x16 (standalone/ DIN rail) Weight	41×106×165 mm 385 gr
Operating temperature	-40° to 74 °C
Storage temperature	-55 to 85 °C
Relative Humidity	95% without condensation

Application:





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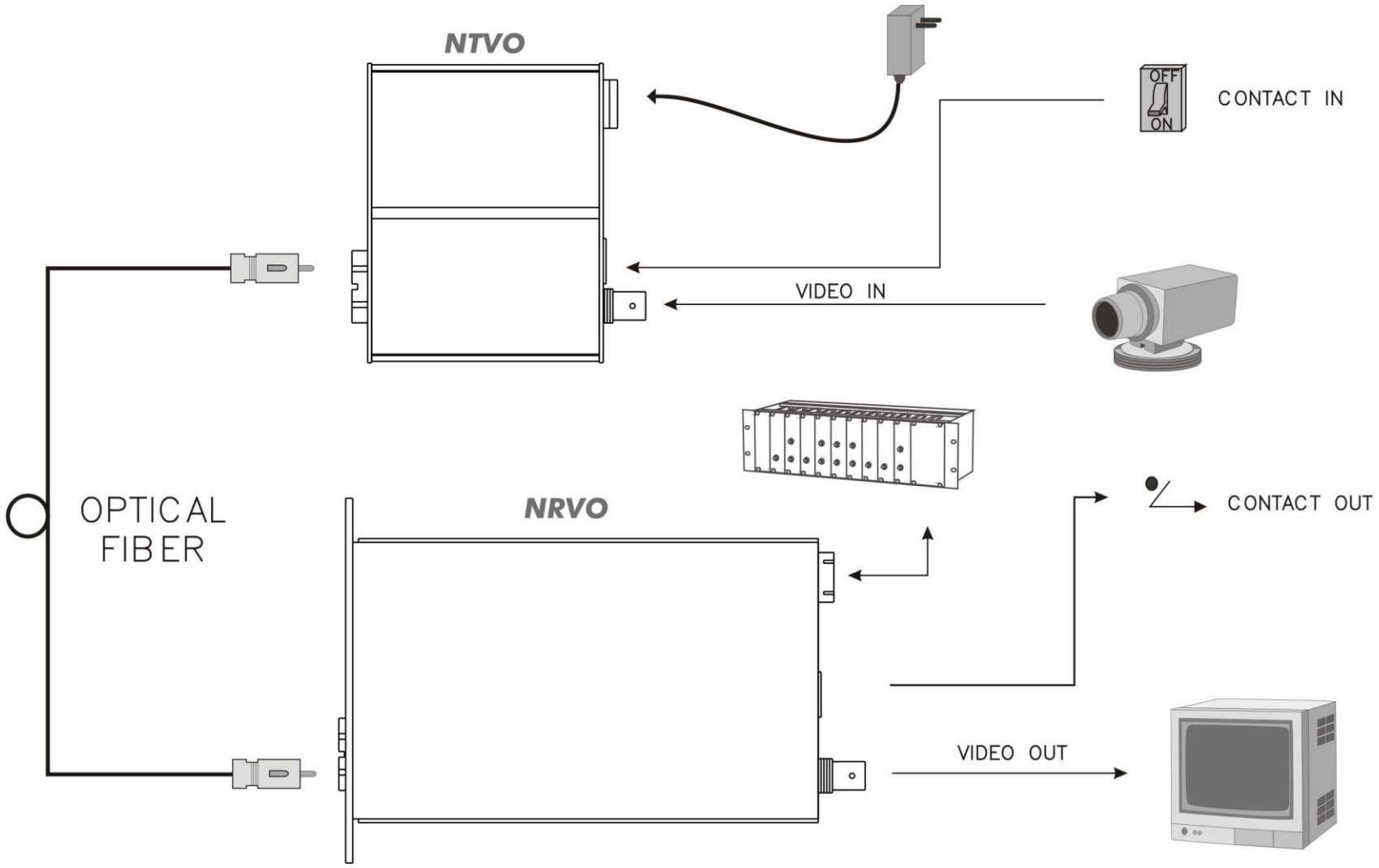
CONNECTION DIAGRAM NTVO/NRVO STANDALONE

Equipments with this scheme:
NTVO12X16, NRVO12X16

WWW.ADILEC.COM
E-mail: info@adilec.com
Tel: +34 93 680 25 13
Fax: +34 93 680 32 29



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CONNECTION DIAGRAM
NTVO/NRVO
STANDALONE

Equipments with this scheme:
NTVO12X16 y NRVO12X11

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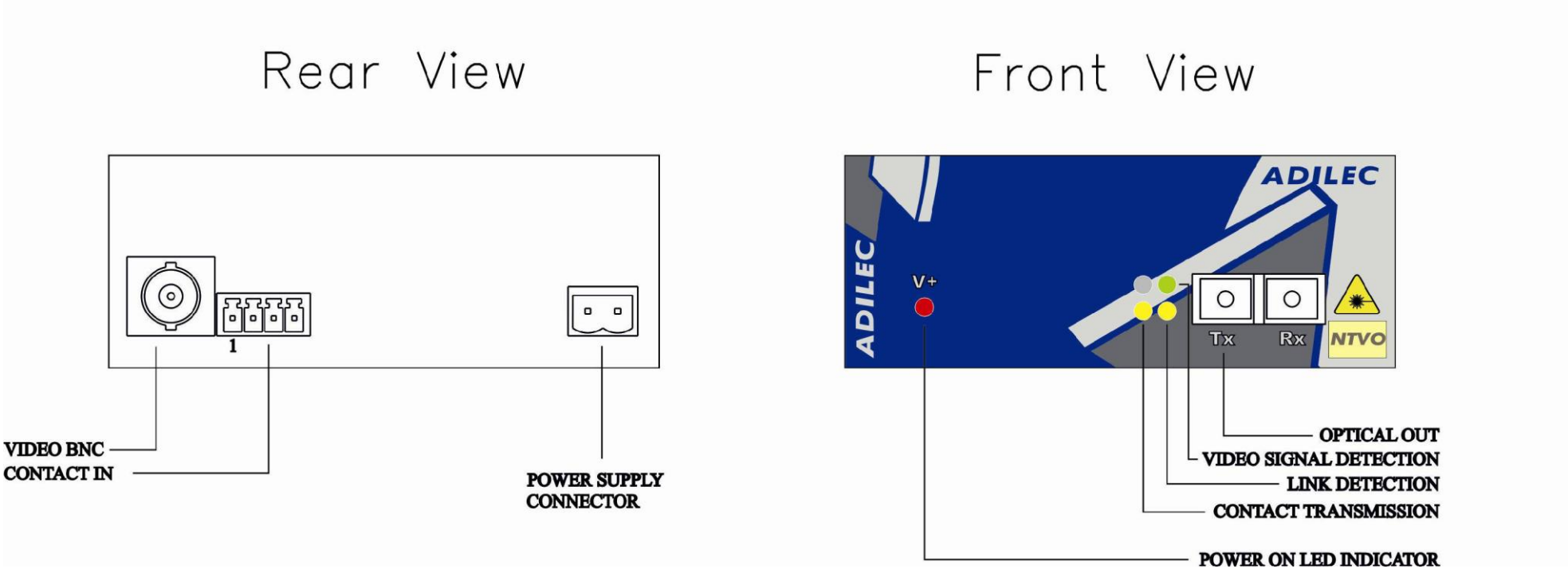
Fax: +34 93 680 32 29



CONTACT CONNECTOR	
Pin	**Description**
1	GND
2	Contact activation
3	N.C.
4	N.C.

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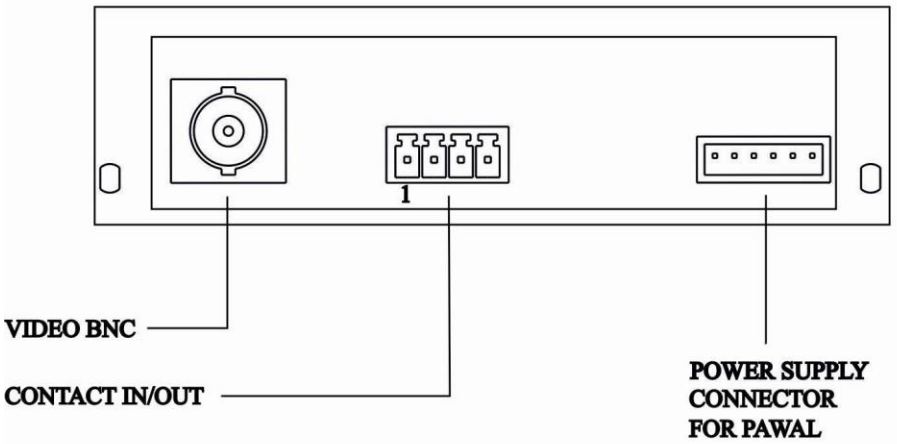
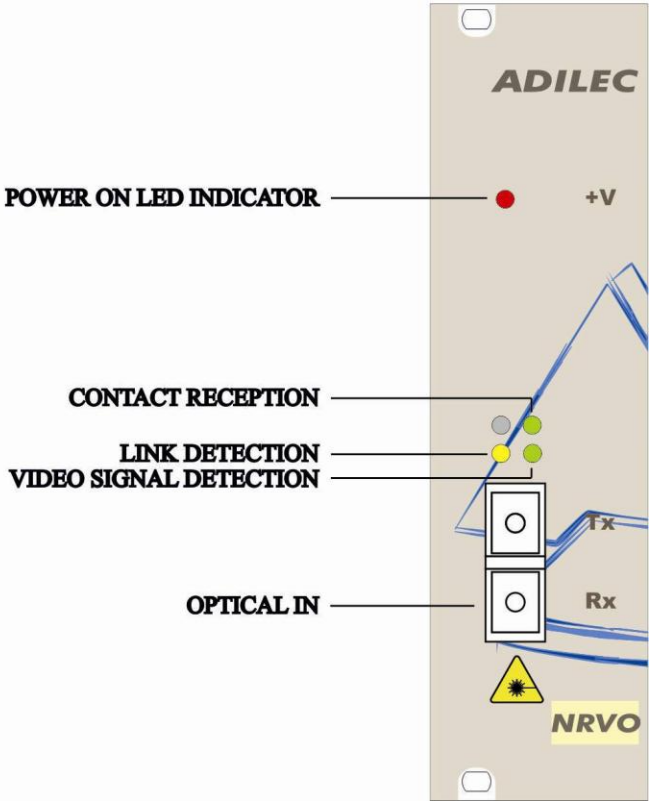
Rear View



Front View



CONTACT CONNECTOR	
Pin	**Description**
1	N.C.
2	N.C.
3	Output contact
4	Output contact

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Light signalling description and output connector for NRVO receiver

WWW.ADILEC.COM
E-mail: info@adilec.com
Tel: +34 93 680 25 13
Fax: +34 93 680 32 29

ADILEC Enginyeria, S.L.
Tel.: +34 93 680 25 13 | Fax: +34 93 680 32 29
e-mail: info@adilec.com
Francesc Macià, 1 08750 Molins de Rei, Spain
www.adilec.com

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