NV010CB / NV080CF

Contact Closure Transceivers

neTrans

CC 1 ↔ 8   SDM   2 in 1 module

▌Features

Contact Closurel

▸ 2ms response time
▸ Normally open

Optical

▸ One fiber design
▸ High performance laser-based optics
▸ Multimode or Singlemode
▸ Internal SFP optical module
▸ ST, FC or SC connectors available

Robust Design

▸ Plug-and-Play design, no in-field adjustments required.
▸ 2-in-1 modular design for standalone or rack-mount installation
▸ Hot-swappable design
▸ Wide operating temperature range of -40ºC to +75ºC
▸ Designed for use in harsh environments

Local and remote diagnostics

▸ Service-friendly LED status indicators on both front and rear of the module
▸ Remote health and status monitoring via Intelligent Rack System Diagnostics and Monitoring (SDM) Module
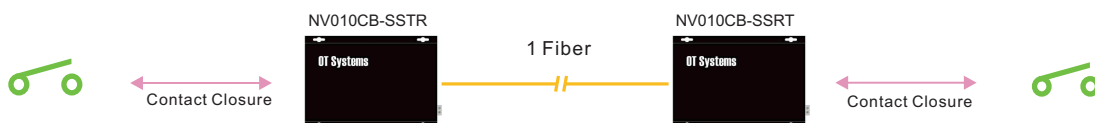
Warranty

▸ Comprehensive Lifetime Warranty

▌Description

The NeTrans' NV010CB and NV080CF contact closure series transmits one channel of bi-directional contact closure or up to 8-channels of one-way contact closures. This NeTrans series feature high-performance laser-based optics for the clearest, most reliable transmission in both single and multi-mode with no video degradation.

A plug-and-play product, NeTrans provides compatibility in most application designs and reliability in harsh environments, a perfect compliment to any commercial, government or intelligent transportation application. The product features a universal design offering two great features: a variety of optical and connector options for field-configure-readiness; and a modular construction equipped for both rack-mount and stand-alone applications. The NeTrans Intelligent Rack design offers remote network diagnostics to maintain and manage system health and hot-swappability.

▌Typical Application

NV010CB-SSTR   1 Fiber   NV010CB-SSRT

Contact Closure   Contact Closure

▊ Specifications

Contact Closures

Number of Channels	1 / 8
Operating Mode	NFT010CB : Duplex
	NFT080CF : SImplex
Input Type	TTL Logic (positive)/ Dry Contract
Output Type	Default: Logic LOW/ Normal Open
Dry contact Output Rating	110 VDC/125VAC, 30W/62.5VA max.
Contact output response time	2 mSec.

LED

Contact Closure Input / Output Indication	LEDs (Green lit/OFF)
Power	Green/On

Connectors

Contact Closure Input / Output	NV010CB : 5-pin screw terminal
	NV080CF : 8-pin screw terminal
Optical Input / Output	ST (standard), FC or SC (optional)
Power (Standalone)	2-pin screw terminal block
Power (Rack-mount)	10-pin smart bus connector

Electrical and Mechanical

Power	SA: 12VDC @500mA Max
Dimensions(WxHxD)	158.4 x 25.4 x 231.8mm(Max)
Weight	0.74kg

Environmental

Operating Temp	-40 °C to +75 °C
Storage Temp	-40 °C to +85 °C
Relative Humidity	0 to 95% non-condensing
MTBF	> 100,000 hours

▊ Ordering Information

Fiber Type	Part Number	Description	Wavelengths	Optical Power Budget	Max. Distance (Km)	No. of slots
Multi-mode (62.5/125μm)	NV010CB-SMTR	1-ch bidirectional Contact Closure Transceiver	1310 | 1550nm	12dB	4	1
	NV010CB-SMRT	1-ch bidirectional Contact Closure Transceiver				
	NV080CF-SMT	8-ch One-way Contact Closure Transmitter	1310nm	12dB	3	1
	NV080CF-SMR	8-ch One-way Contact Closure Receiver				
Single-mode (9/125μm)	NV010CB-SSTR	1-ch bidirectional Contact Closure Transceiver	1310 | 1550nm	19dB	20	1
	NV010CB-SSRT	1-ch bidirectional Contact Closure Transceiver				
	NV080CF-SST	8-ch One-way Contact Closure Transmitter	1310nm	14dB	20	2
	NV080CF-SSR	8-ch One-way Contact Closure Receiver				

Options	▪ ST type connector is standard. For FC type, specify "F" in the suffix. E.g. FMT. For SC type, specify "C" in the suffix. E.g. CMT.
	▪ Please feel free to consult factory if longer transmission distance is required.
Power Adaptor	▪ Power adaptor (GS40A12) is to be purchased separately. Please refer to accessories section for the details.
Rack Mount Chassis	▪ Intelligent Rack Mount Chassis (NR-C14) is to be purchased separately. Please refer to accessories section for the details.

Notes:
- ▪ Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
- ▪ Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
- ▪ Power adaptor is manufactured by third party and is supplied with fitted screw - terminal output cables.
- ▪ Please feel free to consult factory for any special requirement and customization.

ISO 9001:2000
FM 88638

FC CE RoHS FDA REACH Lifetime Warranty

OT Systems
All Digital Fiber Optic Manufacturing Specialist

OT Systems Ltd., June 2012
Due to continuous improvement, all product specifications are subject to change without further notice.