Smart Relay Genie - NX

- Supports upto 48 I/Os (32 Digital Inputs & 16 Digital Outputs)
- 250 lines of ladder programming
- 16 soft text messages, Time Switches, Compare Counters, Timers, Counters & 12 Analog functions
- DST Feature Available

- Backlit LCD Screen for display & modification of pre-selected parameters of functional blocks, viewing I/O status and programming on the device
- PC software for programming, online & offline simulation, documentation & printing
- Designed for use in automation for commercial & Industrial sectors



Cat. No.		G7DDT9		G8DDT9	
Parameters					
Supply Voltage (中)		110 - 240 VAC		12 - 24 VDC	
Supply Variation		-20% to +10% (of 中)			
Frequency		50/60 Hz			
Power Consumption		5W			
Digital Input		8 6			
Analog Input		NA		2 (Can be used as Digital Inputs)	
Digital Input Range		(0 - 40 VAC) OFF, (80) - 265 VAC) ON	(0 - 4 VDC) OFF, (8 - 26.4 VDC) ON	
Analog Input Range		NA		0 to 10 VDC	
Relay Output		4 'NO'			
Digital	Contact Rating	8A @ 240 VAC / 5A @ 30 VDC (Resistive)			
~ ~ .	Electrical Life	10 ^s			
	Mechanical Life	10^7			
******	AC - 15	Rated Voltage (Ue): 1	20/240 V, Rated Current (Ie): 3.0/	1.5 A	
Utilization Category DC - 13		Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A			
I/O Extens	ions (Max.)	3			
	erve (For Clock Only)	150h at -10°C to +55°C			
Modbus Communication		Yes (RTU) (Slave)			
DST DST		Settable			
Lines for Ladder Programming		250			
211160 101 2	Timers	16 (ON Delay, Interval, Cyclic ON-OFF, OFF Delay)			
	Counters	16 (Up / Down, Retentive selectable)			
	Time Switches	16 (Weekly / Daily)			
Function	Compare Counters	16 (Weekly / Daily)			
Blocks	Analog Functions	NA 12			
	Soft Text Messages	16 (Priority Driven)			
	Auxiliary Relays	64			
Operating Temperature		-10° C To + 55° C			
Storage Temperature		-25° C To + 70° C			
Humidity (Non Condensing)		95% (Rh)			
Enclosure		Flame Retardant UL 94-V0			
Dimension (W x H x D) (in mm)		72 X 90 X 65			
Weight (unpacked)		230 g			
Mounting		Base / DIN Rail			
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure			
Certification		C C C USTED ROLLS Complant			
EMI / EM	C				
Harmonic Current Emissions		IEC 61000-3-2	Ed. 3.0 (2005-11) Class A		
ESD		IEC 61000-4-2 Ed. 1.2 (2001-04) Level II			
Radiated Susceptibilty		IEC 61000-4-3 IEC 61000-4-4	Ed. 3.0 (2006-02) Level III Ed. 2.0 (2004-07) Level IV		
Electrical Fast Transients Surges		IEC 61000-4-4	Ed. 2.0 (2005-11) Level IV		
Conducted Susceptibilty		IEC 61000-4-6	Ed. 2.2 (2006-05) Level III		
Voltage Dips & Interruptions (AC)		IEC 61000-4-11	Ed. 2.0 (2004-03) Level All		
Voltage Dips & Interruptions (DC)		IEC 61000-4-29	Ed. 1.0 (2000-08) Level All	5 Levels	
Conducted Emission Radiated Emission		CISPR 14-1 CISPR 14-1	Ed. 5.0 (2005-11) Class A Ed. 5.0 (2005-11) Class A		
		CISTRITI	Ed. 3.0 (2003 11) Class 11		
Environmental Cold Heat		IEC 60068-2-1	Ed. 6.0 (2007-03)		
Dry Heat		IEC 60068-2-2	Ed. 5.0 (2007-07)		
Vibration		IEC 60068-2-6	Ed. 7.0 (2007-12) 5g		
Repetitive Shock		IEC 60068-2-27	Ed. 4.0 (2008-02) 40g, 6ms		
Non-Repetitive Shock		IEC 60068-2-27	Ed. 4.0 (2008-02) 30g, 15ms		
	ING INFORMAT				
Cat. No. G7DDT9		Description 110 - 240 VAC Genie Ny Base Module			
G7DDT9B		110 - 240 VAC, Genie Nx Base Module 110 - 240 VAC, Genie Nx Base Module, Without LCD Display			
GPDT0		12 24 VDC Genie Ny Base Module			

G8DDT9 12 - 24 VDC, Genie Nx Base Module

G8DDT9B 12 - 24 VDC, Genie Nx Base Module, Without LCD Display

G7DDT6E 110 - 240 VAC, Genie Nx Extension Module G8DDT6E 12 - 24 VDC, Genie Nx Extension Module

GFDNN3M Memory Card

GFDNN2S RS 232 Serial Communication Cable

GFDNN1 USB Cable

GNXNN1 Genie Nx Software supplied on CD-ROM compatible with Windows 98, 2000, XP, VISTA & Windows 7.

Smart Relay Genie™- NX

• Nx-Comm RS 485 Module



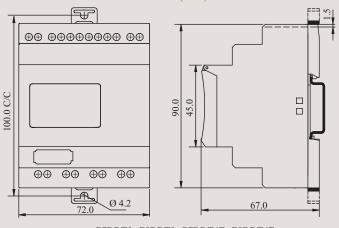
Cat. No.	G7XDTR4	G8XDTR4		
Parameters				
Supply Voltage (中)	110 - 240 VAC	12 - 24 VDC		
Input	TTL Level			
Output	RS 485 Protocol (Two wires, D+, D-)			
Number of Nodes	32 Standard unit loads			
Isolation voltage	2000 Vrms			
Baud Rate	300, 600, 1200, 2400, 4800, 9600			
Operating Temperature	-10°C to +55°C			
Storage Temperature	$-20^{\circ}\text{C to} + 70^{\circ}\text{C}$			
Modbus Communication	Yes (RTU) (Slave)			
LED Indications	Red LED's for Tx & Rx. Green LED for Power indica	tion.		
Certification	C Compliant			
Weight (unpacked)	80 g	84 g		

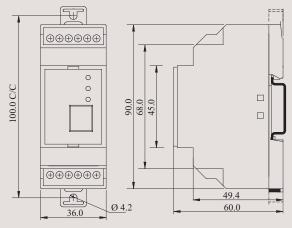
ORDERING INFORMATION

Cat. No. Description

G7XDTR4 110 - 240 VAC, RS 485 Communication Module G8XDTR4 12 - 24 VDC, RS 485 Communication Module

MOUNTING DIMENSION (mm)

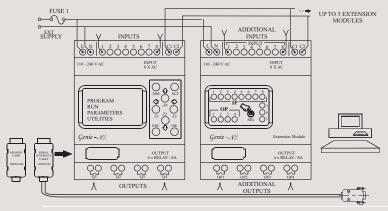


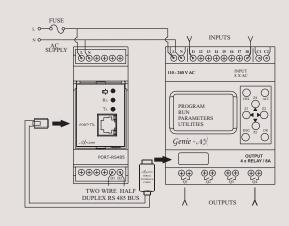


G7DDT9, G8DDT9, G7DDT6E, G8DDT6E

G7XDTR4, G8XDTR4

CONNECTION DIAGRAM





TERMINAL TORQUE & CAPACITY

Ø 3.55.0 mm	Torque - 1.1 N.m (10 Lb.in) Terminal screw - M3.5	
	Solid Wire - 2 X 0.22.5 mm ²	
AWG	1 X 24 to 10	

Smart Relay Genie[™]- NX



FEATURES

Programming:

Programming can be carried out independently using the keys on the Genie-NX base module with the help of ladder diagram or on a PC, using "G-Soft NX." software.

LCD Backlighting:

Backlight of the LCD display is present for a minimum 15 seconds whenever the device is powered ON or a key is pressed on the base module. The backlight can also be configured to be permanently ON or permanently OFF by configuring the "Device Utilities" option in the device menu or by using the G-Soft NX application software.

Memory Card:

Genie-NX has a Program Transfer feature, which allows programs to be transferred or copied into another Genie-NX with the help of memory card. This feature enables quick copy of the programs without the use of a laptop or a PC.

I/O Extensions:

User can connect a maximum of 3 Extension Modules to the Genie-NX base module & each Extension Module has 8 inputs and 4 outputs, so we can expand up to 48 I/O extensions if necessary via the Genie-NX. Expansions are made in daisy chain fashion.

Communication Module:

A module for communication on the Modbus network is available, which is called "NX-Comm "to facilitate communication of the logic relay over a 2 wire half duplex RS 485 link. Modules are powered by 110-240 VAC or 12-24 VDC power supplies. The base module can be connected to this communication interface by means of the cable and the communication takes place via the NX-Comm. on the RS 485 link.

APPLICATIONS

For Industry:

- Printing and Packaging machines
- Ancillary equipments in textile, plastic.
- Material handling equipments, conveyor systems.
- Interlocking units in distributed control systems.

For Commercial / Building Sector:

- Automation of barriers
- Automation of compressors and pumps for air conditioning requirements
- Automation of lights