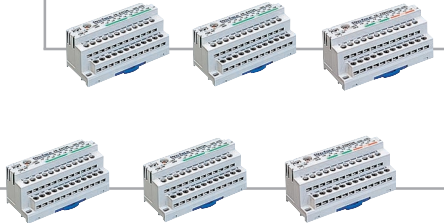


**200 meters distance per flex network channel**



Note: Picture above represents sample connection layout.

## Flex Network Discrete I/O

*Low Cost Mix and Match I/O Modules*

- Compatible with GLC2000 models.
- Compatible with GLC150 (LT type B, B+, C) models with Flex Network Interface.
- Ideal for Distributed I/O Applications.
- Up to 63 Flex Network modules supported per GLC.
- Multiple combinations for on/off, start/stop, pump and flow control.
- Compatible with GP-PRO 03 Software.

### FEATURES

- 8, 16, 32, 64 - Point Modules
- 24V DC powered
- Simplifies Machine I/O Wiring Design
- 35mm Din Rail Mounted
- High Speed Twisted Pair Network
- Analog I/O Modules Available

### DISCRETE I/O MODULE SELECTION



**FN-Y08RL41**  
8-point Relay  
Discrete Output



**FN-XY08TS41**  
8-point Discrete Input  
8-point Sink Transistor Output



**FN-X16TS41**  
16-point Discrete Input



**FN-Y16SK41**  
16-point Discrete Sink Output



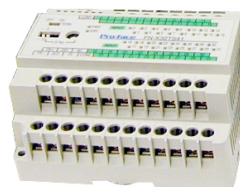
**FN-Y16SC41**  
16-point Discrete Source Output



**FN-XY16SK41**  
16-point Discrete Input  
16-point Sink Transistor Output



**FN-XY16SC41**  
16-point Discrete Input  
16-point Source Transistor Output



**FN-X32TS41**  
32-point Discrete Input



**FN-XY32SKS41**  
32-point Discrete Input  
32-point Sink Transistor Output

# FLEX NETWORK GENERAL SPECIFICATIONS

Model	FN-Y08RL41	FN-XY08TS41	FN-X16TS41	FN-Y16SK41	FN-Y16SC41	FN-XY16SK41	FN-XY16SC41	FN-X32TS41	FN-XY32SKS41
Input/Output Type	8-pt Relay Output/ 1 Common	8-pt sink/source input, 8-pt sink transistor output	16-pt sink/source input	16-pt sink output	16-pt source output	16-pt sink/source input, 16-pt sink transistor output	16-pt sink/source input, 16-pt transistor source output	32-pt sink/source input	32-pt sink/source input 32-pt transistor sink output
Supply Voltage	Rated = 24VDC, Range = 20.4VDC to 28.8VDC (all modules)								
Power Consumption	1.0W or less	1.5W or less	1.5W or less	1.5W or less	1.5W or less	2.5W or less	2.5W or less	2.5W or less	3.5W or less
Operating Temperature	0°C to 55°C (all modules)								
Storage Temperature	-25°C to 70°C (all modules)								
Ambient Humidity	30% RH to 95% RH (non-condensing) Level RH-1						5% RH to 95% RH (non-condensing), wet bulb temp: less than 39°C		
Noise Immunity	Noise voltage: 1000Vp-p, Pulse Duration: 1µs, Arise Time: 1ns (all modules)								
Electrostatic Discharge Immunity	Contact discharge of 6kV (IEC 61000-4-2 Level 3) (all modules)								
Installation Method	Using 35mm DIN rail or screw mounting (all modules)								
Weight	Max 0.15kg [0.33lb]						350kg (0.66 lb)		
External Dimensions	108mm (4.25in)W x 45mm (1.77in)H x 49mm (1.92in)D					110mm (4.33in)W x 95mm (3.7in)H x 57mm (2.24in)D			135mm(5.31in)Wx 95mm (3.74in)Hx 46mm (1.81in)D
Certifications	CE Marking (EN55011 class A, EN61000-6-2), UL / C-UL (UL 508)								N/A
Input Terminal Rated/Range Voltage	N/A	24VDC 20.4-28.8VDC	24VDC 20.4-28.8VDC	N/A	N/A	24VDC 20.4-28.8VDC	24VDC 20.4-28.8VDC	24VDC 20.4-28.8VDC	24VDC 20.4-28.8VDC
Input ON Voltage	N/A	Min. 15VDC	Min. 15VDC	N/A	N/A	Min. 15VDC	Min. 15VDC	Min. 15VDC	Min. 15VDC
Input OFF Voltage	N/A	Max. 5VDC	Max. 5VDC	N/A	N/A	Max. 5VDC	Max. 5VDC	Max. 5VDC	Max. 5VDC
Input Impedance	N/A	4.1kΩ	4.1kΩ	N/A	N/A	4.2kΩ	4.2kΩ	4.2kΩ	4.2kΩ
Input Delay	N/A	Max 1.5ms (Off-On) Max 1.5ms (On-Off)	Max 1.5ms (Off-On) Max 1.5ms (On-Off)	N/A	N/A	Max 1.5ms (Off-On) Max 1.5ms (On-Off)	Max 1.5ms (Off-On) Max 1.5ms (On-Off)	Max 1.5ms (Off-On) Max 1.5ms (On-Off)	Max 1.5ms (Off-On) Max 1.5ms (On-Off)
Output Delay	Max 10ms (Off-On) Max 5ms (On-Off)	Max 1ms (Off-On) Max 1ms (On-Off)	N/A	Max 1ms (Off-On) Max 1ms (On-Off)	Max 1ms (Off-On) Max 1ms (On-Off)	Max 1ms (Off-On) Max 1ms (On-Off)	Max 1ms (Off-On) Max 1ms (On-Off)	N/A	Max 1ms (Off-On) Max 1ms (On-Off)
Output Terminal Rated/Range Voltage	N/A	24VDC 20.4-28.8VDC	N/A	24VDC 20.4-28.8VDC	24VDC 20.4-28.8VDC	24VDC 20.4-28.8VDC	24VDC 20.4-28.8VDC	N/A	24VDC 20.4-28.8VDC
Max. Load Current	1.0A/point 4.0A total	0.2A/point 1.6A total	N/A	0.2A/point 2A/ total	0.2A/point 2A total	0.2A/point 1.6A total	0.2A/point 1.6A total	N/A	0.2A/point 1.6A per 16 ch.
Voltage Drop (On)	N/A	Max 1.5VDC	N/A	Max 1.5VDC	Max 1.5VDC	Max 1.5VDC	Max 1.5VDC	N/A	Max 1.5VDC
Contact Rating	1A at 240VAC 1A at 24VDC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lifetime (Electrical)	100,000 Operations	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## ORDERING INFORMATION

### PART NUMBER

FN-X16TS41	16 point Discrete Input (CE/UL/cUL)
FN-X32TS41	32 point Discrete Input (CE/UL/cUL)
FN-Y08RL41	8 Relay Discrete Output, 1 Common (CE/UL/cUL)
FN-Y16SK41	16 point Discrete Sink Output (CE/UL/cUL)
FN-Y16SC41	16 point Discrete Source Output (CE/UL/cUL)
FN-XY08TS41	8 point Discrete Input, 8 point Sink Transistor Output (CE/UL/cUL)
FN-XY16SK41	16 point Discrete Input, 16 point Sink Transistor Output (CE/UL/cUL)
FN-XY16SC41	16 point Discrete Input, 16 point Source Transistor Output (CE/UL/cUL)
FN-XY32SKS41	32 point Discrete Input, 32 point Sink Transistor Output (CE/UL/cUL)

### OPTIONAL ACCESSORIES

FN-CABLE-2010-31-MS	10m Flex Network Cable
FN-CABLE-2050-31-MS	50m Flex Network Cable
FN-CABLE-2200-31-MS	200m Flex Network Cable

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## Advertencia de la Proposición 65 de California—Plomo y compuestos de plomo

## Avertissement concernant la Proposition 65 de Californie—Plomb et composés de plomb

**⚠ WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠ ADVERTENCIA:** Este producto puede exponerle a químicos incluyendo plomo y compuestos de plomo, que es (son) conocido(s) por el Estado de California como causante(s) de cáncer y defectos de nacimiento u otros daños reproductivos. Para mayor información, visite : [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**⚠ AVERTISSEMENT:** Ce produit peut vous exposer à des agents chimiques, y compris plomb et composés de plomb, identifiés par l'État de Californie comme pouvant causer le cancer et des malformations congénitales ou autres troubles de l'appareil reproducteur. Pour de plus amples informations, prière de consulter: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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