

Installation Guide

1 Unpacking

Unpack the items. Your package should include:

- One IDS-108F(G)E(-XT)/IDS-106F(G)E(-XT) series switch.
- DIN rail kit

2 What Else You Need

- Appropriate cables for data ports. To prevent damage to the switch from electrical surges, it is recommended to use STP (Shielded twisted pair) cabling.
- Personal computer or laptop
- Appropriate SFP modules for SFP ports (if applicable)

3 Select a Location

- Installations: DIN-Rail mount.
- Select a power source within 6 feet (1.8 meters).
- Choose a dry area with ambient temperature between -10 and 60°C (-14 and 140°F) for IDS-108F(G)E & IDS-106F(G)E.
- Choose a dry area with ambient temperature between -40 and 75°C (-40 to 167°F) for IDS-108F(G)E-XT & IDS-106F(G)E-XT.
- For use at altitudes up to 2000 meters, indoor use only.
- Humidity range (Operational): 5% to 95%, non-condensation
- For use in Pollution Degree 2 environment.

4 Connect to the Data Ports

Depending on the model, your switch can have the following ports:

IDS-108FE(-XT)	8 port TX 10/100Mbps
IDS-106FE(-XT)	6 port TX 10/100Mbps & 2port SFP 100Mbps
IDS-108GE(-XT)	8 port TX 10/100/1000Mbps
IDS-106GE(-XT)	6 port TX 10/100/1000Mbps & 2 port SFP 100/1000Mbps

Note: To prevent damage to the switch from electrical surges, it is recommended to use STP (Shielded twisted pair) cabling.

5 Apply Power

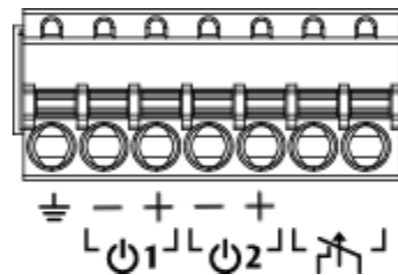
The switch has two pairs of power inputs. Only one power input is required to operate the switch. However, redundant power supply functionality is supported.

Power rating:
 Model IDS-108FE(-XT): 9-55 VDC, 0.25-0.05 A
 Model IDS-106FE(-XT): 9-55 VDC, 0.35-0.1 A
 Model IDS-108GE(-XT): 9-55 VDC, 0.5-0.1 A
 Model IDS-106GE(-XT): 9-55 VDC, 0.6-0.15 A

The power input specification complies with the requirements of SELV (Safety Extra Low Voltage), and the power supply should comply with UL 61010-1 and UL 61010-2-201.

Terminal Block

The switch provides two power inputs on a 9-55 VDC terminal block. The terminal block has 7 terminal posts.



Pin	Description	
Power 1	+	9-55VDC
	-	Power Ground
Power 2	+	9-55VDC
	-	Power Ground
	Functional Ground	
Relay Output Rating	0.5A @30 VDC	

Relay Output Alarm

The switch provides a relay output contact. The relay is for signaling of a user-defined power redundancy failure. The Current is 0.5A@30VDC at Normal Open or Normal Close.

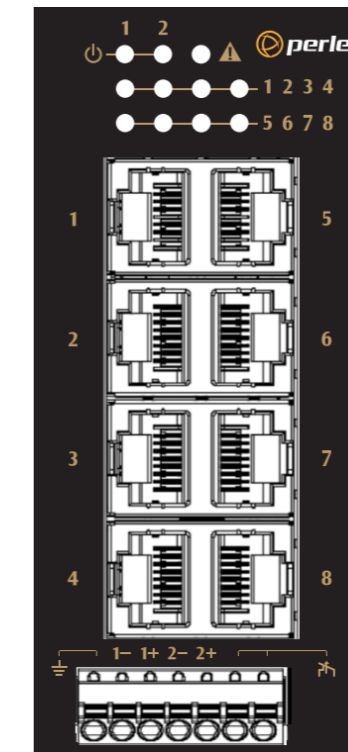
POWER1 INPUT	POWER2 INPUT	RELAY contact
X	X	Open, Start alarm
O	X	Open, Start alarm
X	O	Open, Start alarm
O	O	Close, Non-alarm

Power-Up Sequence

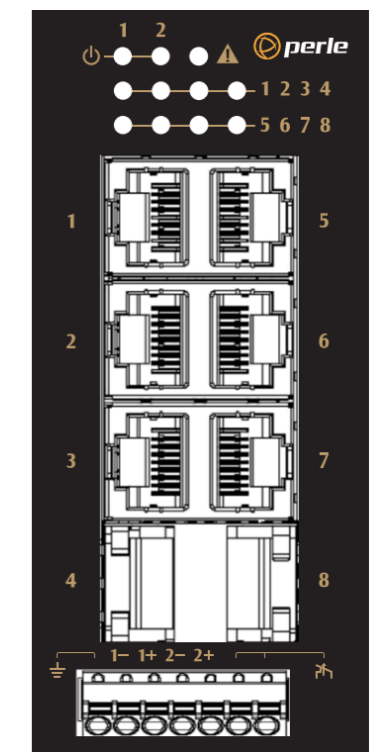
When you apply power:

- All **Link/ACT** LEDs blink momentarily.
- The **Power 1** LED goes ON.
- LEDs for every port connected to a device flash, as the switch conducts a brief Power On Self-Test (POST).

6 Front Panel LEDs



IDS-108F(G)E
IDS-108F(G)E-XT



IDS-106F(G)E
IDS-106F(G)E-XT

LED	Color	Status
L/A (Link/Active)	Green	LED On: Link LED Off: No Link LED blinking: Data Transmission
PWR 1&2	Green	LED On: Power On LED Off: Power Off
Alarm	Red	LED On: Error Power Redundancy Detection LED Off: No Power Error Condition

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7 Quality of Service (QoS)

The QoS feature is automatically activated when the switch is running. Priority mapping is handled according to the following tables:

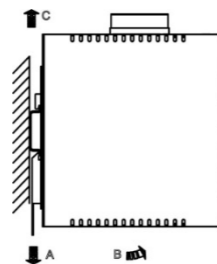
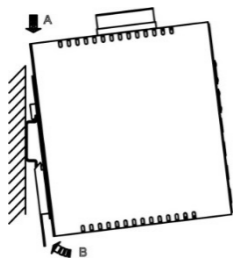
IDS-108FE(-XT) & IDS-106FE(-XT)		
CoS priority (802.1p)	7, 6, 5, 4	3, 2, 1, 0
Queues	1	0
WRR	16	1

IDS-108GE(-XT) & IDS-106GE(-XT)				
CoS priority (802.1p)	7, 6	5, 4	3, 2	1, 0
DSCP priority	59, 55	47, 46, 43	27	Other
Queues	3	2	1	0
WFQ	Highest Priority	Secondary Priority	16	1

8 Other information

DIN-Rail Assembly Startup, and Dismantling

- Assembly: Place the Switch on the DIN rail from above using the slot. Push the front of the Switch toward the mounting surface until it audibly snaps into place.
- Startup: Connect the supply voltage to start up the Switch via the terminal block.
- Dismantling: Pull out the lower edge and then remove the Switch from the DIN rail.



Power wiring information:

Use copper conductors only.

Use cable type - AWG (American Wire Gauge) 18-22 and corresponding pin type cable terminals.

The rating of the power wire used must be at least 105°C.

Informations de câblage d'alimentation:

Utilisez le type de câble - AWG (American Wire Gauge) 18-22.

Le calibre du fil d'alimentation utilisé doit être d'au moins 105°C.

DESTINÉ À ÊTRE UTILISÉ AVEC DES CONDUCTEURS EN CUIVRE SEULEMENT.

Si la méthode d'utilisation de l'équipement diffère de celle décrite par le fabricant, la protection assurée par l'équipement risque d'être altérée.

Contactez-nous pour l'entretien ou la réparation.

Label clean up:

Wipe with a dry cloth to clean up the labelling.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

The product is open type, intended to be installed in an industrial control panel or an enclosure.

SFP module specification requirement: Class 1 laser product. Complies with CDRH 21CFR 1040.10 and 1040.11. Rated 3.3 or 5 VDC.

The installation safety of any system incorporating the equipment is the responsibility of the assembler of the system.

Nettoyage de l'étiquette:

Nettoyez avec un chiffon doux et sec.

Si l'équipement est utilisé d'une façon non conforme aux directives du fabricant, il peut être endommagé.

Le produit est du type ouvert et doit être installé dans un coffret ou panneau de contrôles industriel.

Spécification pour le module SFP : Laser classe 1 conforme aux normes CDRH 21CFR 1040.11 Alimentation 3.3 ou 5 VCC.

La sécurité d'une l'installation d'un système incorporant l'équipement est la responsabilité de l'assembleur du système.

Manufacturer information:

Perle SYSTEMS Ltd.

60 Renfrew Drive, Markham, Ontario L3R-0E1, Canada