STRIDE® SE2 SERIES IP65 RATED INDUSTRIAL UNMANAGED ETHERNET SWITCHES

NOTE: *FOR ADDITIONAL PRODUCT DETAILS, A USER MANUAL, SE2-USER-M, IS AVAILABLE AS A DOWNLOADABLE PDF FILE FROM THE ONLINE DOCUMENTATION AREA OF THE AUTOMATIONDIRECT WEBSITE.*

General Specifications

Operating mode	Store and forward wire speed switching, non-blocking
Devices supported	All IEEE 802.3 compliant devices are supported
MAC addresses	2K
Packet buffer	1Mbit
Packet forwarding rate	1.2 Mpps
Latency	< 10 us
Storage temperature range	-40 to +85 °C (-40 to +185 °F)
Humidity (non-condensing)	5 to 95% RH
Pollution Degree	2
Vibration and shock	IEC60068-2-6, -27, -32
Freefall	IEC60068-2-32
Safety	EN60950-1
EMI emissions	FCC CFR47 Part 15, EN55032/CISPR32, Class A
EMS	IEC61000-4-2 (ESD): +/- 6kV (contact), +/- 8kV (air) IEC61000-4-3 (RS): 20V/m (800MHz ~ 2 GHz) IEC61000-4-4 (EFT): Power Port +/- 2kV; Data Port: +/- 2kV IEC61000-4-5 (Surge): Power Port: +/- 1kV/DM, +/- 2kV/CM IEC61000-4-6 (CS): 10V (150 kHz ~ 80 MHz) IEC61000-4-8 (Power frequency magnetic field) :50 Hz 100A/m IEC61000-4-9 (Pulsed magnetic field) :300A/m IEC61000-4-29 (Voltage short interruptions) :10ms 100%
RoHS and WEEE	RoHS (Pb free) and WEEE compliant
Packaging and protection	IP65
Agency Approvals	UL61010-1 and CAN/CSA+C22.2 No. 61010-1-12; UL61010-2-201 and CAN/CSA C22.2 No. 61010-2-201:14, (UL file #E157382), CE

Models

Part Number	Ethernet Ports	Input power (max.)	Operating Temp
SE2-SW5U-N65-T	5	4.6 W	-40 to +75°C (-40 to +167°F)
SE2-SW8U-N65-T	8		

Power Details

Power input	Redundant Input M12 connector
Input voltage	Class 2 Power Supply: 12-48 VDC, 18-30VAC 50/60 Hz
Power input ports	M12, male, A-coding, 4-pin
Reverse power protection	Yes
Power consumption	Refer to Models table

M12 Ports

10/100BaseT ports	M12, female, D-coding, 4-pin
Ethernet compliancy	IEEE 802.3i, 802.3u, 802.3x
Auto-crossover	Yes, allows you to use straight-through or crossover wired cables
Auto-sensing operation	Yes, Full and half duplex
Auto-negotiating speed	Yes
Flow control	Automatic
Cable requirements	Twisted pair (Cat5 or better) (shielded recommended)
Max. cable distance	100 meters

Note: M12 caps (ZP-JBH-CAP) need to be used on open (disconnected) ports.

Front Panel LEDs

LED	State	Description
Power 1 LED	**On**	Power 1 connected and operational
	Off	Power 1 no voltage
Power 2 LED	**On**	Power 2 connected and operational
	Off	Power 2 no voltage
Ethernet port connection status LED	**On**	Ethernet port connected
	Blinking	Ethernet port active
	Off	Ethernet port no connection

Safety Standards:

RoHS Compliant

1-800-633-0405

www.AutomationDirect.com

Dimensions:

mm/[inches]

52.9 [2.08]

199.4 [7.85]

Ø6.0 [Ø0.24]

12.9 [0.51]

38.0 [1.50]

74.0 [2.91] 32.0 [1.26]

PWR1
PWR2

210.0 [8.27]

220.0 [8.66]

14.9 [0.59]
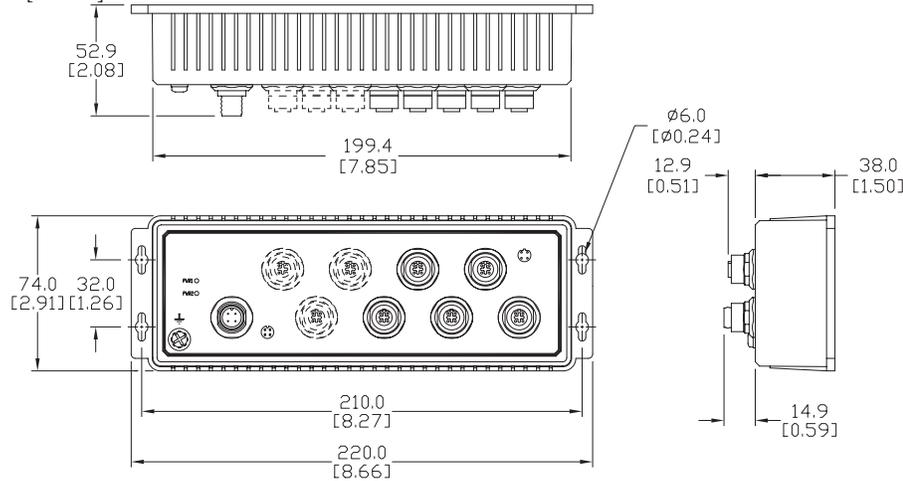
Installation – Panel Mounting:

The switch is designed to be panel mounted vertically or horizontally using the steps below.

Panel mounting steps:

1. Use the dimensional drawing above to locate (4) mounting screws on the panel. Recommended screws are #4-40 pan head.
2. Install the screws in the panel leaving a gap of 5mm between the head of the screw and the panel.
3. Align the (4) mounting holes with the screw heads and move the switch on to the (4) mounting screws. Allow the switch to slide into position.
4. Tighten the four mounting screws.
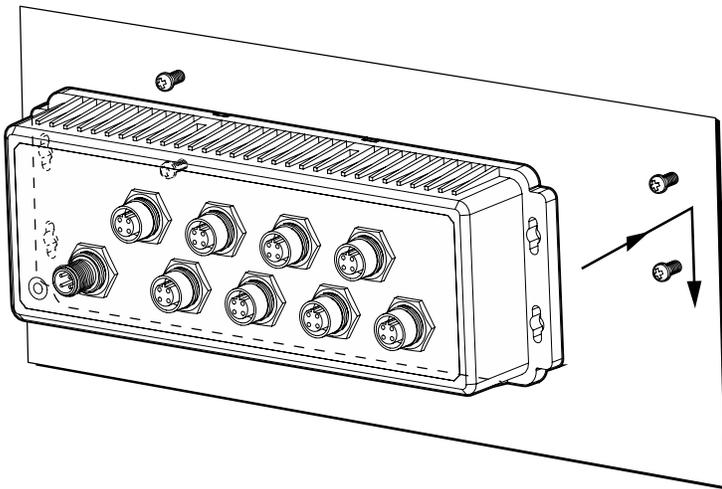
Power Wiring:

The switch can be powered from the same DC source that is used to power your other devices. To maintain the UL508 listing, this must be a Class 2 power supply. A DC voltage in the range of 12 - 48 VDC needs to be applied through an M12 connector as shown in the chart below. The chassis ground screw located on the front of the switch housing should be tied to panel or chassis ground. To reduce down time resulting from power loss, the switch can be powered redundantly with a second power supply as shown in the chart below.

A recommended DC power supply is **AutomationDirect.com** part number PSL-24-030.
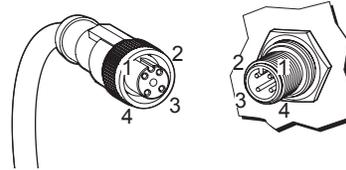
Power Port Pin Definitions			
Pin		**DC Wiring**	**AC Wiring**
1	P1 -	PWR1: -	PWR1: N
2	P1 +	PWR1: +	PWR1: L
3	P2 -	PWR2: -	PWR2: N
4	P2 +	PWR2: +	PWR2: L

Communication Ports Wiring:
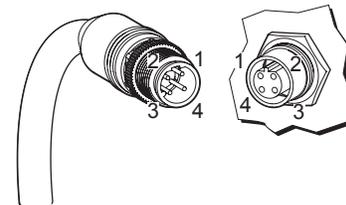
Communication Port Pin Definitions	
Pin	**MDI Signal**
1	Transmit Data + (TD+)
2	Receive Data + (RD+)
3	Transmit Data - (TD-)
4	Receive Data - (RD-)

Additional Help and Support

- For additional product support, specifications, and installation, a User Manual, SE2-USER-M, is available as a downloadable PDF file from the Online Documentation area of *www.AutomationDirect.com*
- For additional technical support and questions, call our Technical Support team @ 770-844-4200.

1-800-633-0405

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