# ESW105 and ESW108 Series 5 & 8 Port, **Ultra Compact Industrial Ethernet Switches**

#### **Features**

- Ultra Compact design Less than 1 inch wide
- NEW UL/cUL Class I Div 2 Groups A,B,C, and D
- Designed to meet Level 3 (Heavy) Industrial Environments - EN61000-6-2 Certifications
- Shock, Vibration, Free Fall Tested
- LC Single and Multi mode fiber ports
- 10/100M, full/half duplex, MDI/MDI-X (Autonegotiate)
- Supports IEEE 802.3, 802.3u, and 802.3x standards
- Industrial IP30 rated DIN rail case with 6 different Panel mount options
- Dual power inputs, 12 to 36 VDC and 10 to 24 VAC
- 2K MAC addresses



Designed to fit many applications, the ESW105 and ESW108 series are more than just an Ethernet switch with a great low pricing. They are plug-and-play industrial Ethernet Switches with an ultra compact IP30 DIN rail case, 6 way mountable panel brackets, LEDs for Power, (Link / Speed / Activity for each port), 12 to 36 VDC and 10 to 24 VAC power inputs with removable terminal blocks. These switches are perfect for any applications that require special protection from hash environments.

Choose a switch with five or eight copper ports, or a combination of copper and fiber ports. Multimode fiber models extend range up to 2 km. Single-mode fiber models extend range up to 20 km. All models require an external power supply (sold separately).

The switch ships with 4 panel mount clips giving the user 6 different ways to panel mount the unit.





Ordering Information							
Model Number	10/100 Copper	Multi- Mode Fiber	Single- mode Fiber				
ESW105	5						
ESW105-ML	4	1 (LC)					
ESW105-SL	4		1 (LC)				
ESW108	8						
ESW108-ML	7	1 (LC)					
ESW108-SL	7		1 (LC)				

Accessory Items				
MDR-20-24	DIN Rail Mount, 24 VDC, 1 A			
	Power Supply			
MDR-40-24	DIN Rail Mount, 24 VDC, 1.7 A			
	Power Supply			
	Adjustable DIN Rail 19 Inch Rack			
DR19RMKT	Mount Kit			
EIRSP1	Single Stage Surge Protector			

We also offer a full line of Fiber Optic and RJ-45 Patch Cables



## **Specifications**

**Technology** 

Standards: IEEE802.3, 802.3u, 802.3x

Processing Type: Store and forward with IEEE802.3x full duplex, non-blocking flow control

Flow Control: IEEE802.3x flow control, back pressure flow control

Packet buffer memory: 64K bytes

Address Table Size 2K MAC Addresses

Interface

RJ45 Ports: 10/100BaseT(X) auto negation, Full/Half duplex, auto MDI/MD-X Fiber Ports: 100BaseFX, (multi-mode or single–mode with LC connectors)

LED Indicators: Power, (Link / Speed / Activity for each port)

**Fiber Optics** 

 Fiber Type
 Distance
 Wavelength
 Transmit Power
 Receive Sensitivity

 Multi-mode
 2 km
 1310 nm
 Neg. 23.5 to Neg. 14 dBm
 ≤ Neg. 35 dBm

 Single-mode
 20 km
 1310 nm
 Neg. 15 to Neg. 8 dBm
 ≤ Neg. 35 dBm

**Power** 

Input Voltage 12 to 36 VDC and 10 to 24 VAC

Power Consumption 4.00 W Max

Input Connection Removable Terminal Block
Protection Reverse Polarity Protection

**Environmental** 

Op. Temperature -10 to 60 C (14 to 140 F)

Storage Temperature -40 to 80 C (-40 to 176 F)

Humidity 10 to 95% Non-condensing

MTBF 200,000 hours

MTBF Calculation Parts count reliability prediction

Mechanical

Enclosure IP30 DIN mount metal case

Dimensions (5 ports) H 100mm x W 25mm x D 75mm

(3.94in x 0.98in x 2.95in)

Dimensions (8 ports) H 145mm x W 24mm x D 75mm

(5.71in X 0.94in x 2.95in)

Installation 35 mm DIN or 6 way panel mount

**Regulatory Approvals** 

CE, FCC,

RoHS

**Hazardous Locations** 

NEW UL/cUL Class I Div 2 Groups A,B,C, and D

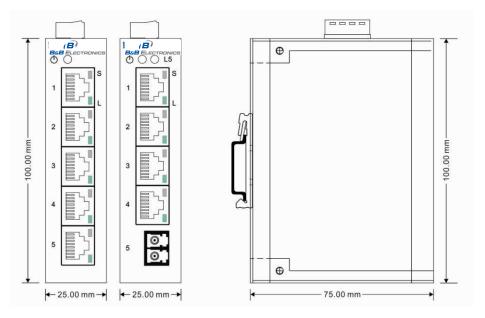
### Specifications-Level 3, EN 61000-6-2: 2006 Generic Standards for (Heavy) Industrial environments

Test	Description	Test	Test Level	
EN 55022: 2006 + A1:2007	Class B Emissions			
EN 61000-4-2: 2009	Electro-Static Discharge (ESD)	Enclosure Contact	6kV	3
		Enclosure Air	8kV	3
EN61000-4-3:2006+A1:2008	Radiated Field Immunity (RFI)	Enclosure Ports	10V/m	3
EN61000-4-4:2004	Burst (Fast Transient)	Signal Ports	1kV@2.5Khz	3
		DC Ports	2kV	3
EN61000-4-5:2006	Surge	Signal Ports	1kV	3
		DC Power Ports	2kV	3
EN61000-4-6: 2009	Induced (Conductive) RFI	Signal Ports	10 V RMS	3
		DC Power Ports	10 V RMS	3

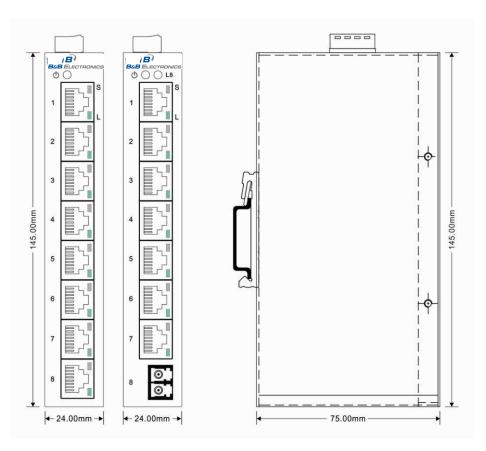
#### **Environmental Specifications**

Test	Description		Test Level	
IEC60068-2-6	Vibration	Test Fc	2G	
IEC60068-2-27	Shock	Test Ea	30G	
IEC 60068-2-32	Free Fall			
Operating Temperature		-10 to 60C	14 to 140F	
Storage Temperature		-40 to 80C	-40 to 176F	
Humidity		10 to 95% Non-cond	10 to 95% Non-condensing	





ESW105-xx Series



ESW108-xx Series

