

# Product Information

## HES5B/8B Series

### 5 and 8-port Din-rail Entry-level Unmanaged Ethernet Switches



## Features

- 5 or 8 port, copper and LC fiber port options
- UL/cUL508, Class I/Division 2 Groups A,B,C, and D
- Designed to meet Level 3 (Heavy) industrial environments
- EN61000-6-2 Certifications
- Shock, vibration, free fall tested
- IP40 rated DIN rail case with 6 different panel mount options



Henrich Electronics Corporation

Main Office

Tel: 860-487-9869

Fax: 860-487-9478

[www.henrich-inc.com](http://www.henrich-inc.com)

## Introduction

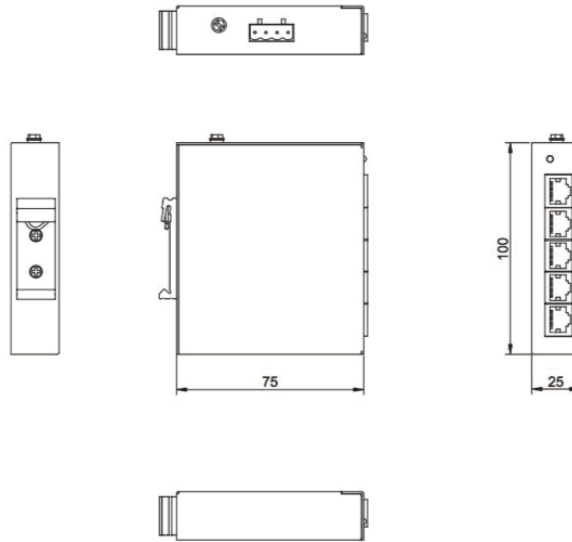
The HES5B/8B series of industrial Ethernet switches are UL/cUL508 class1, Division2 rated, highly compacted industrial 5 and 8-port Ethernet switches that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX auto-sensing RJ45 ports. The HES5B/8B switches are rated to operate at temperatures ranging from -10 to 60°C, or with a wide operating temperature range from -40 to +75°C. The switches can be easily installed on a DIN-rail as well as multi-directional panel mounting. The UL rating mounting capability, wide operating temperature, and the IP40 housing make this line of switches very ruggedized and friendly to use.

## Specifications

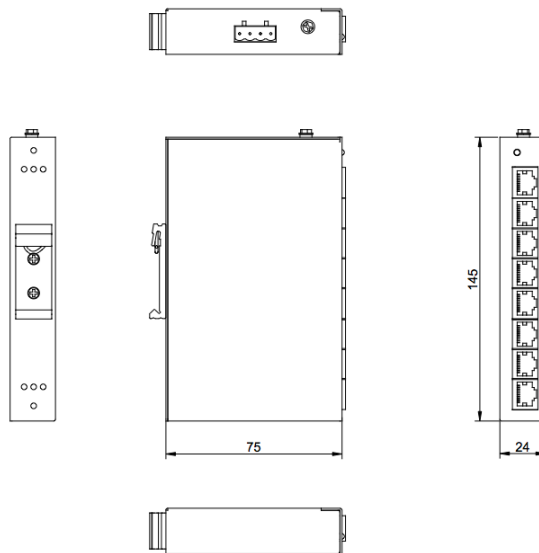
<b>Technology</b>			<b>Optical Fiber</b>		
Standard :	IEEE802.3, 802.3u, 802.3x		Mode	Multi-mode	Single Mode
Processing Type :	Store and forward with IEEE802.3x full duplex, non-blocking flow control		Transmission Distance	2km	20km
Protocols :	IEEE802.3x flow control, back pressure flow control		Centre Wavelength	1310nm	1310nm
<b>Switch Properties</b>			Cable Size	62.5/125um	9/125um
MAC Table Size :	2K		TX Power(dBm)	-20~-10dBm	-15~-8dBm
<b>Interface</b>			RX Power(dBm)	< -32dBm	< -32dBm
RJ45 Port :	10/100BaseT(X) auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection		Transmission Rate	100Mbps	100Mbps
Fiber Port :	100BaseFX, (multi-mode or single-mode with LC connectors)		<b>Standards and Certifications</b>		
LED Indicators :	Power, (Link / Speed / Activity for each port)		Safety :	UL/cUL508	
<b>Power Requirements</b>			EMI :	FCC Part15, CISPR(EN55022) Class A	
Input Voltage :	12~36VDC and 10~24VAC		EMS :	EN61000-4-2(ESD) Level 3,	
Power Consumption :	4w Max			EN61000-4-3(RS) Level 3,	
Input Connection :	Removable Terminal Block			EN61000-4-4(EFT) Level 3,	
Protection :	Reverse Polarity Protection			EN61000-4-5(Surge) Level 3,	
				EN61000-4-6(CS) Level 3,	
<b>Physical Characteristics</b>			UL Class 1, Division 2, Groups A, B, C, and D		
Case :	Slim Metal Case, IP30 Design		Shock :	IEC 60068-2-27	
Dimensions :	25×100×75mm (HES5B) 24×145×75mm ( HES8B)		Freefall :	IEC 60068-2-32	
Installation :	DIN Rail or Panel Mounting		Vibration :	IEC 60068-2-6	
<b>Environment Limits</b>			<b>Warranty</b>		
Operating Temp. :	Standard Models: -10 to 60°C Wide Temp. Models: -40 to 75°C		Warranty Period :	3 years	
Storage Temp. :	-40 to 85°C				
Ambient Relative Humidity :	5 to 95%(Non-condensing)				

Dimension Drawings

HES5B



HES8B



## Ordering Information

### HES5B

HES5B-VL	Entry-level Din-rail Unmanaged, 5 x 100Mbps Copper Port, Industrial Temperature -10 to +60 °C, Power Input 12~36VDC or 10~24VAC
HES5B-VLW	Entry-level Din-rail Unmanaged, 5 x 100Mbps Copper Port, Industrial Wide Temperature -40 to +75 °C, Power Input 12~36VDC or 10~24VAC

### HES8B

HES8B-VL	Entry-level Din-rail Unmanaged, 8 x 100Mbps Copper Port, Industrial Temperature -10 to +60 °C, Power Input 12~36VDC or 10~24VAC
HES8B-VLW	Entry-level Din-rail Unmanaged, 8 x 100Mbps Copper Port, Industrial Wide Temperature -40 to +75 °C, Power Input 12~36VDC or 10~24VAC