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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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



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## Introduction

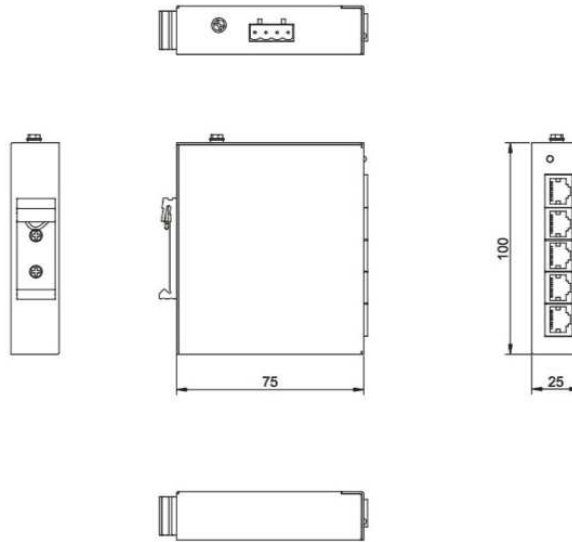
The HES5B/8B series of industrial Ethernet switches are UL/cUL508 class1, Division2 rated, highly compacted industrial 5 and 8-port Ethernet switches that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half-duplex, MDI/MDIX auto-sensing RJ45 ports. The HES5B/8B switches are rated to operate at temperatures 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

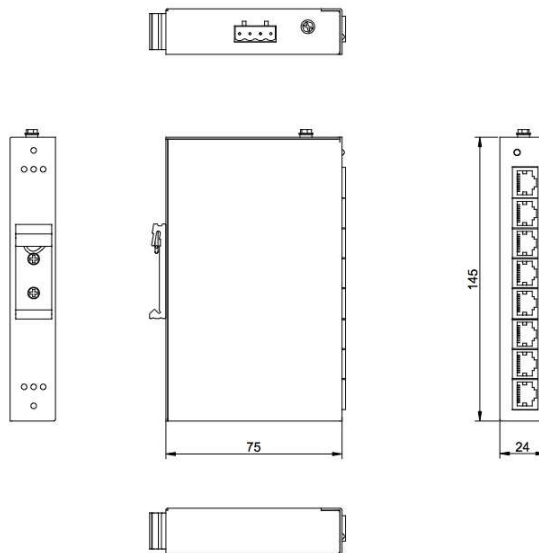
<b>Technology</b>		<b>Optical Fiber</b>		
Standard :	IEEE802.3, 802.3u, 802.3x	Mode	Multi-mode	Single Mode
Processing Type :	Store and forward with IEEE802.3x full duplex, non-blocking flow control	Transmission Distance	2km	20km
Protocols :	IEEE802.3x flow control, back pressure flow control	Centre Wavelength	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,	
<b>Physical Characteristics</b>			EN61000-4-6(CS) Level 3,	
Case :	Slim Metal Case, IP30 Design		EN61000-6-2	
Dimensions :	25×100×75mm (HES5B) 24×145×75mm ( HES8B)	Shock :	UL Class 1, Division 2, Groups A, B, C, and D	
Installation :	DIN Rail or Panel Mounting	Freefall :	IEC 60068-2-27	
<b>Environment Limits</b>		Vibration :	IEC 60068-2-32	
Operating Temp. :	Standard Models: -10 to 60°C Wide Temp. Models: -40 to 75°C	<b>Warranty</b>		
Storage Temp. :	-40 to 85°C	Warranty Period :	3 years	
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