Security Industry DIN-Rail Unmanaged

Industrial Switch

Security Industry DIN-Rail Unmanaged Industrial Switches can at most support 4 100/1000BaseX SFP ports + 8 10/100/1000BaseT ports, which are specially designed for harsh industrial environments, providing economic solutions for industrial Ethernet connections. The working temperature of these switches is -25°C~+75°C.

Security Industry DIN-Rail Unmanaged Industrial Switches adopt redundant dual power inputs, 9.6~60VDC and 18~30VAC, DIN-rail mounted. With rugged aluminum alloy housing, IP40 protection class, these switches passed the high level tests of EMI/MC. And all the models have gone through strict aging test, meeting the requirements of security industry.

Features and Benefits

- Multiple port options
- Backplane bandwidth can be up to 52Gbps
- Wide and varied power supply range
- Non-rust aluminum alloy housing and torx screws
- All ports support line speed forwarding and automatic turnover, supporting long-distance transmission
- Lightning protection: power supply ±4KV, RJ45 port ±4KV
- IP40 protection class
- Small and easy to install, plug and play without configuring
- Fanless design, wide working temperature and quiet operation
- MTBF ≥ 300,000h

Switch Properties

Backplane Bandwidth:	8Gbps (3 ports, 1 100/1000BaseX SFP + 2 10/100/1000BaseT ports) 1Gbps (5 ports, 5 10/100BaseT ports) 10Gbps (5 ports, 5 10/100/1000BaseT ports) 1.6Gbps (6 ports, 2 100BaseX SFP + 4 10/100BaseT ports) 14Gbps (6 ports, 2 100/1000BaseX SFP + 4 10/100/1000BaseT ports) 1.6Gbps (8 ports, 8 10/100BaseT ports) 16Gbps (8 ports, 8 10/100/1000BaseT ports) 5.6Gbps (10 ports, 2 100/1000BaseX SFP + 8 10/100BaseT ports) 20Gbps (10 ports, 2 100/1000BaseX SFP + 8 10/100/1000BaseT ports) 52Gbps (12 ports, 4 100/1000BaseX SFP + 8 10/100/1000BaseT ports)
Switch Architecture:	Store-Forwarding
MAC Table Size:	2K (3/5/6 ports model) 2K (8 10/100BaseT ports) 4K (8 10/100/1000BaseT ports / 2 100/1000BaseX SFP + 8 10/100/1000BaseT ports) 8K (2 100/1000BaseX SFP + 8 10/100BaseT ports / 4 100/1000BaseX SFP +8 10/100/1000BaseT ports)
Buffer Size:	1Mbit (3/5 ports model) 768Kbit (5 10/100BaseT ports / 6 ports model, 2 100BaseX SFP + 4 10/100BaseT ports / 8 10/100BaseT ports) 2Mbit (6 ports model, 2 100/1000BaseX SFP + 4 10/100/1000BaseT ports) 1.5Mbit (8 10/100/1000BaseT ports /2 100/1000BaseX SFP +8 10/100/1000BaseT ports) 4.1Mbit (2 100/1000BaseX + 8 10/100BaseT ports / 4 100/1000BaseX SFP +8 10/100/1000BaseT ports)
Exchange Rate:	148,800 pps/100M port; 1,488,000 pps/1000M port

Power Parameters

Connections:	5-PIN terminal block
Input Voltage:	9.6 ~ 60VDC & 18 ~ 30VAC, dual inputs
Overload Current Protection:	Supported
Reverse Polarity Protection:	Supported

Physical Performance

Installation:	DIN-Rail Mounted
Housing:	Aluminum Alloy Housing
Protection Class:	IP40
Dimensions (W×H×D):	42mm × 110mm × 105mm (3/5/6/8 ports model)
	42mm × 140mm × 110mm (10/12 ports model)
Weight:	< 0.4kg (3/5/6/8 ports model)
	< 0.6kg (10/12 ports model)

Mechanical Characteristics

Vibration:	IEC 60068-2-6
Shock:	IEC 60068-2-27
Free-fall:	IEC 60068-2-31
Circuit Board:	Approved by IPC

Environment Limits

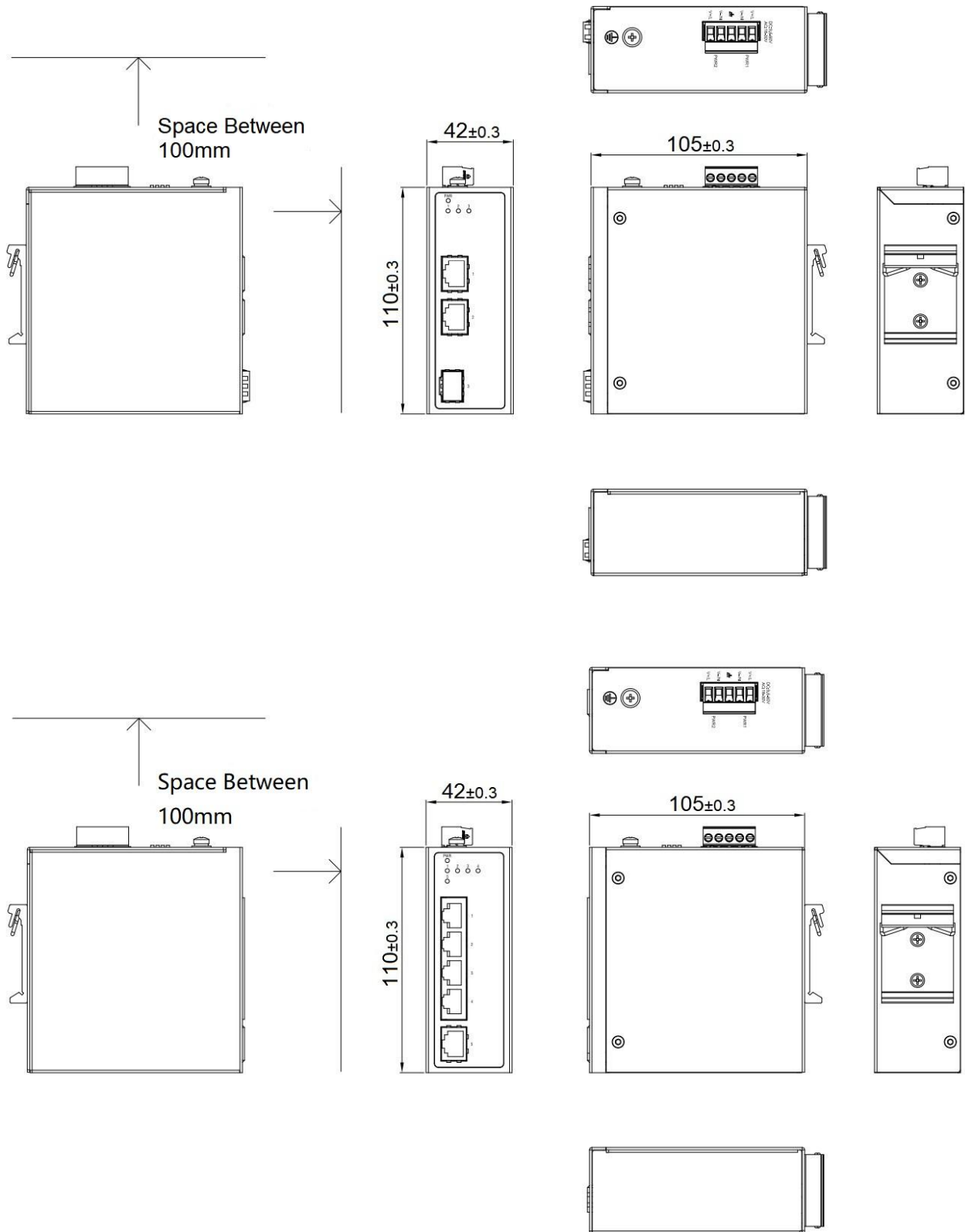|	
Storage Temperature:	-40°C ~ +85°C
Operating Temperature:	-25°C ~ +75°C
Ambient Relative Humidity:	5% ~ 95% (Non-condensing)

Electromagnetic Characteristics

EMI:	FCC 47 CFR Part 15 Class A
	EN55032 Class A
	EN55035 Class A
EMC:	IEC(EN)61000-4-2, Class 4
	IEC(EN)61000-4-3, Class 3
	IEC(EN)61000-4-4, Class 4
	IEC(EN)61000-4-5, Class 4
	IEC(EN)61000-4-6, Class 3
	IEC(EN)61000-4-8, Class 5

Industrial Certification and Test

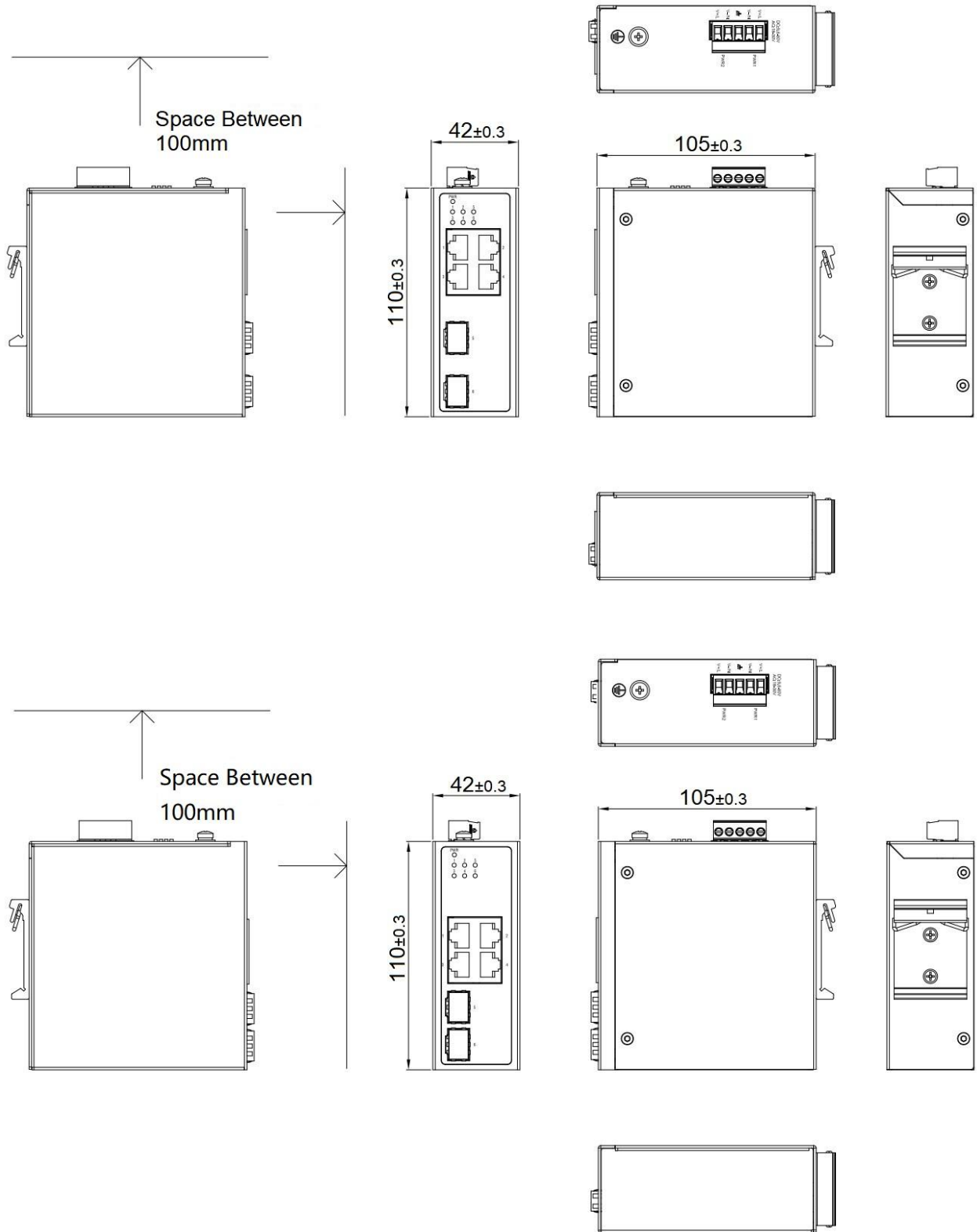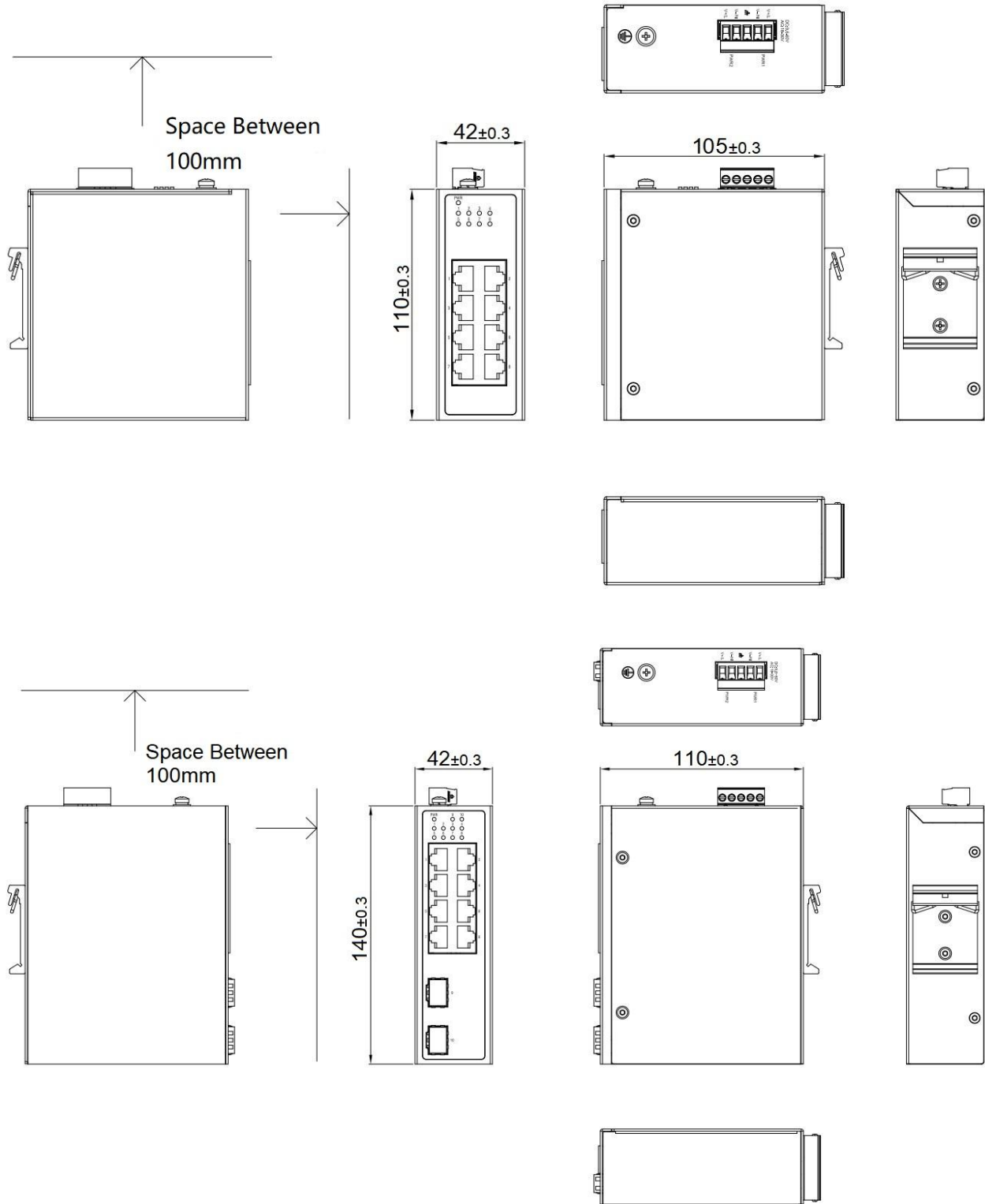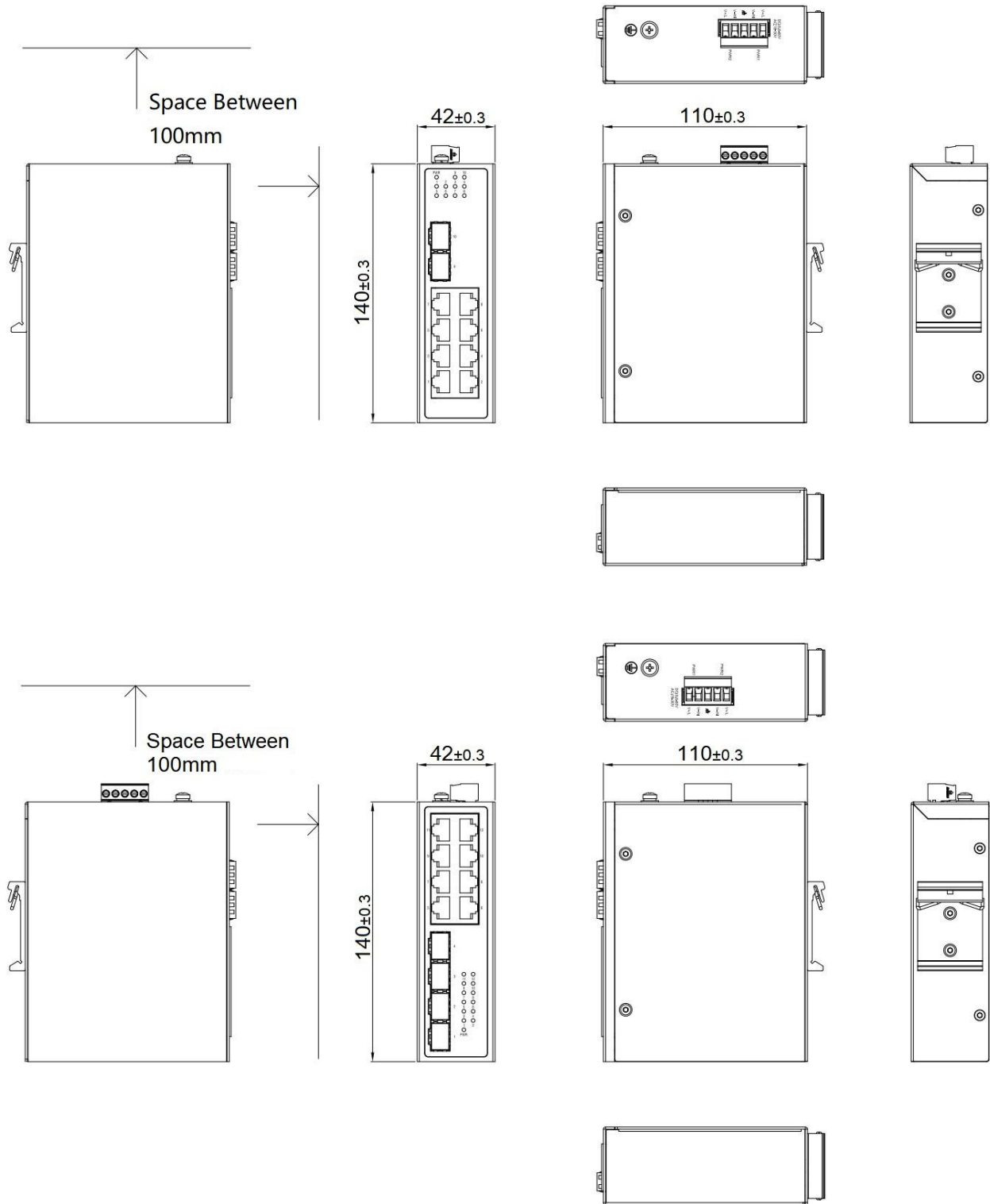|	
Product Safety:	EN 62368-1
EMC:	EN 55032
	EN 55035
	EN IEC61000-3-2
	EN61000-3-3
	FCC Part 15 Subpart B Class A
Others:	Test Report from Ministry of Public Security, Network Access License, RoHS

Dimensions

Unit: mm

Dimensions

Unit: mm

Dimensions

Unit: mm

Dimensions

Unit: mm

Ordering Information

P/N	Description
SDS300-A3R1020	3-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 1 100/1000BaseX SFP ports (SFP module not included) + 2 10/100/1000BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-A5R0005	5-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 5 10/100BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-A5R0050	5-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 5 10/100/1000BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-A6R0204	6-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 2 100BaseX SFP ports (SFP module not included) + 4 10/100BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-A6R2040	6-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 2 100/1000BaseX SFP ports (SFP module not included) + 4 10/100/1000BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.

Ordering Information

P/N	Description
SDS300-A8R0008	8-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 8 10/100BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-A8R0080	8-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 8 10/100/1000BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-A10R2008	10-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 2 100/1000BaseX SFP ports (SFP module not included) + 8 10/100BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-A10R2080	10-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 2 100/1000BaseX SFP ports (SFP module not included) + 8 10/100/1000BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.
SDS300-A12R4080	12-Port DIN-Rail Unmanaged Industrial Switch made from Anti-Corrosion aluminum alloy, support 4 100/1000BaseX SFP ports (SFP module not included) + 8 10/100/1000BaseT ports, DIN-rail mounted. IP40 protection class. Operating temperature -25°C ~ +75°C. Dual redundant power inputs, 9.6~60VDC & 18~30VAC.

For More Information

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MRD reserves the right to change specifications without prior notice.