

IES-0208F (IP67/IP43)

8 10/100TX + 2 100FX Industrial Switch

- EN50155/ E-mark certified
- Provides M12 connector with IP67 or 43 rated protection
- Wide Operating Temperature from -40°C to 75°C
- Wide range dual power inputs 9.5~56VDC
- 110V single power input 43~160V for 110V model



IP67 Rated



IP43 Rated

OVERVIEW

Lantech IES-0208F (IP67/IP43) is an 8 10/100 Base-TX+2 100M FX with M12-connector unmanaged industrial switch for IP67 or IP43 rated protection, which meets the high reliability requirements demanded by industrial rolling stock applications.

The IES-0208F (IP67/IP43) is designed to meet with critical network environment with IP67/43 enclosure and M12 connectors for protection against dust and water. IP67 model can be immersed 1 meter under water for 30 minutes long, so it is the best to place in the highly damp and moisture area in the train, vehicle or rail-side. Both have passed harsh environmental testing to comply with Industrial EMI and Safety

standards as well as stability testing such as Free fall, Shock, and Vibration. For a greater flexibility in application the IES-0208F (IP67/IP43) supports an extended operating temperature range from -40°C to 75°C.

The wide range dual power input from 9.5V~56V fits with most of train/vehicle usage. The 110V model offers dual power supply that can be powered from 43V to 160VDC.

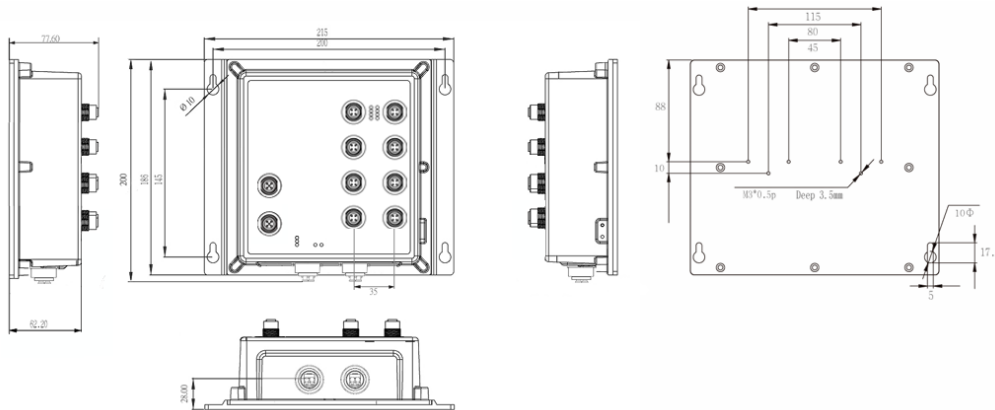
With EN45545-2 Fire & Smoke, E-mark, and EN50155 certification, the IES-0208F (IP67/IP43) is best for railway and vehicle applications.

FEATURES & BENEFITS

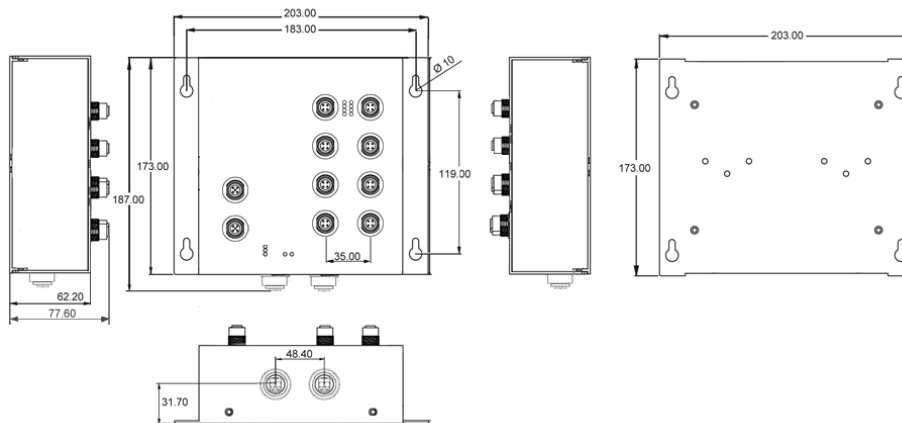
- 8 10/100TX+2 100FX Unmanaged Industrial Switch with M12 connectors and IP67/43 rated protection
- Dual Power Design with wide DC9.5V~56V input
- 110V model support dual 43~160VDC power
- Back-plane (Switching Fabric): 2 Gbps
- 8K MAC address table
- Wide Operating Temperature (-40°C ~75°C)
- Din rail** and wall mount design
- EN45545-2 Fire & Smoke, E-mark, EN50155 and EN61373 shock/vibration certified

DIMENSIONS (unit=mm)

IP67 model



IP43 model



SPECIFICATIONS

Hardware Specification		Operating Humidity	5% to 95% (Non-condensing)
IEEE Standard	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-T Ethernet IEEE802.3x Flow Control and Back Pressure	Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Mac Address	8K MAC address table	Case Dimension	Aluminum case, IP-67, 215mm(W)x185mm(H)x71mm(D) Aluminum case, IP-43 202mm(W)x172mm(H)x62.5mm(D)
Connector	10/100T: 8 x M12, 4-pole D-coded, Female with auto MDI/MDI-X function 100M-FX : 2 x LC connector for single mode or multi mode type fiber cable Power connector: 1 x M12, 5-pole A-coded, Male	Weight	1.4kgs (IP67); 1.2kgs(IP43)
100M Optical Cable	Multi-mode: 50/125um~62.5/125um Single mode: 9/125um Available distance: 2km (Multi-mode)/10km (Single-mode) Wavelength: 850nm (Multi-mode)/850nm (Single-mode)	Installation	Din Rail**, Wall Mount Design
Protocol	CSMA/CD	EMC	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8 (Magnetic Field), CE EN61000-6-2, CE EN61000-6-4
LED	Per unit: Power 1 (Green), Power 2 (Green), Ethernet: Link/Activity (Green) 100M FX: Link/Activity (Green)	Stability Testing	IEC61373 (Shock), EN61373 (Shock and Vibration)
Power Supply	Dual power DC 9.5V ~56V 110V model : 43~160VDC dual input with input isolation	Certificates & report	EN50155/EN50121-3-2/EN50121-4 Certificate EN45545-2 R24/R25 (EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1 & 2) Fire & Smoke Certificate E-Mark E4 Certificate
Power Consumption	10W at 12/24/48V input 13.5W at 110V input	Warranty	5 years

*Pending

**Optional

ORDERING INFORMATION

All model packages include M12 caps and wall mount bracket. All standard models are non-coating, optional coating models are available with -C model name.

- **IES-0208F-MM-67.....P/N: 8360-544**
8 10/100TX+2 100M FX 2KM IP67 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C
- **IES-0208F-MM-43.....P/N: 8360-5441**
8 10/100TX+2100M FX 2KM IP43 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C
- **IES-0208F-SM-67.....P/N: 8360-545**
8 10/100TX+2 100M FX 10KM IP67 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C
- **IES-0208F-SM-43.....P/N: 8360-5451**
8 10/100TX+2100M FX 10KM IP43 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C
- **IES-0208F-MM-67-110V.....P/N: 8360-546**
8 10/100TX+2100M FX 2KM IP67 rated Industrial Switch w/M12 connectors; dual 43~160V input; -40~75C
- **IES-0208F-MM-43-110V.....P/N: 8360-5461**
8 10/100TX+2100M FX 2KM IP43 rated Industrial Switch w/M12 connectors; dual 43~160V input; -40~75C
- **IES-0208F-SM-67-110V.....P/N: 8360-547**
8 10/100TX+2100M FX 10KM IP67 rated Industrial Switch w/M12 connectors; dual 43~160V input; -40~75C
- **IES-0208F-SM-43-110V.....P/N: 8360-5471**
8 10/100TX+2100M FX 10KM IP43 rated Industrial Switch w/M12 connectors; dual 43~160V input; -40~75C

OPTIONAL ACCESSORIES

M12 Connector & Cable

- **ECON120005PF** 5 Pin M12 Power Female Connector
- **ECONM12-5P(F)70CM CABLE** 5 Pin M12 Power Female 90° angle Connector+ 70 CM Cable
- **ECAB124030MJS** 4 Pin M12 RJ45 Male 3 Meters; STP Cable

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