

At **SIL4 Systems** our Mission and Relentless Commitment is to **Safety** and **High Reliability**

12 PORT M12 INDUSTRIAL UNMANAGED EHTERNET SWITCH



- Compliant with EN50155
- 8x 10/100T(x) M12 connector with IEEE 802.3at PoE+
- 4x 10/100/1000T(x) M12 connector with relay bypass
- Support Bypass function for non-stop communication even when no power exists
- Built for harsh environments and wide temperature range application
- IP40/IP54(Optional) housing



Specifications

Technology

Standards	IEEE 802.3 10BaseT
	IEEE 9-2.3u 100BaseTX
	IEEE 802.3ab 1000BaseT

Processing Type Store and Forward

Switch Properties

Switch Fabric	5.6Gbps
Priority Queues	-
MAC Table Size	8k
Packet Buffer	4Mbits

Interface

Network Connector	8x 10/100T(x) M12 Female D-coded 4-pole with PoE+, 4x 10/100/1000T(x) M12 Female X-coded 8-pole, auto negotiation speed duplex mode, auto MDI/MDI-X
	Per unit: PWR1, PWR2, Status
LED Indicators	Ports: Link/Active with highest speed (Green), low speed (Amber)

Power Requirements

Operation Voltage	LV	9V~36V Operational; 24V Normal
	MV	16.5~75V Operational; 48V Normal
	HV	43V~160V Operational; 72V-110V Normal
Connection	M12 Male S-coded 4-pole	
Power Consumption	15W without PDs' consumption	
Protection	Overload Current Protected, Reverse Polarity Protected	

Mechanical Construction

Enclosure	SECC
Protection Class	IP54
Dimensions	181x00x04 mm (LxWxH)
Weight	1.20 kg
Mounting	Wall Mounting Kits, Optional DIN-Rail Mounting

Regulatory Approvals

EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
	IEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
EMS	
Free Fall	IEC60068-2-32
Shock & Vibration	IEC61373
Green	RoHS Compliant
Certifications	EN50155; EN45545-2
MTBF	>100,000 hours
Warranty	5 years

Environmental Limits

Operating Temperature	Extended: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

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Dimensions (unit = mm)

