

## SLX-9ES-3ST Sixnet Networking Series



- 8x 10/100BaseT(X), 1x 100BaseFX
- Unmanaged / Plug and Play
- IEEE 802.3, IEEE 802.3u, IEEE 802.3x
- Redundant power input with overvoltage protection
- Operating temperature -40 °C to +85 °C
- Hazardous area (Zone 2), Maritime Rated
- Extremely reliable: MTBF 1,000,000+ h

<https://www.wachendorff-prozesstechnik.de/en/SLX-9ES-3ST>

### Description

The unmanaged industrial Ethernet switches in the Sixnet SL/SLX series have been developed for use in harsh and demanding industrial environments where large temperature differences and physical loads are not unknown. A wide range of variants are available. From Ethernet media converters with 2 ports to switches with 9 connection options - optionally as a combination of RJ45 and fiber ports.

The design of these industrially robust switches is of very high quality and guarantees outstanding reliability. Numerous approvals and certificates offer a wide range of possible applications. The devices in the SL series have a Lexan polycarbonate housing. The SLX series is characterized by an aluminium housing and an extended temperature range. Sixnet switches have been designed for years of uninterrupted operation.

### Product details

Operating mode:	Store and Forward
Switching engine:	wire-speed / non-blocking
Ethernet standard:	<ul style="list-style-type: none"> <li>• IEEE 802.3 (10BaseT)</li> <li>• IEEE 802.3u (100BaseTX)</li> <li>• IEEE 802.3x (Full Duplex with flow control)</li> </ul>
RJ45 ports:	8x 10/100BaseT(X)
RJ45 - Speed:	Auto-negotiation (10/100 Mbit/s)
RJ45 - Duplex:	Half or full duplex
RJ45 connection:	MDI/MDIX Auto-Crossover / TD/RD Auto-Polarity
RJ45 - Ethernet isolation:	$U_{eff} = 1500 \text{ V}$ for 1 minute
Fiber ports:	1x 100BaseFX
Fiber - Wavelength:	1310 nm
Fiber - Type:	Singlemode
Fiber - Connector:	ST
Distance:	20 km
MAC table size:	1024
Memory bandwidth:	3.2 Gbit/s
Latency:	100 Mbps: 5 $\mu$ s + frame time 10 Mbps: 16 $\mu$ s + frame time (typical values, load-dependent)
Power supply:	Redundant input terminal block connector with overvoltage protection
Voltage range:	10 to 30 VDC
Power consumption:	5.0 W
Protection (transient):	15,000 watts (peak power)

Protection (spike):	5,000 watts (10x for 10 $\mu$ s)
Operating temperature:	-40 °C to +85 °C (cold start at -40 °C)
Storage temperature:	-40 °C to +85 °C
Humidity:	5 % to 95 % rH (non-condensing)
max. insertion height:	9144 m
Vibration and shock:	IEC60068-2-6
Electrical safety:	UL508/CSA C22.2/14, EN61010-1, CE
EMC:	FCC part 15, ICES-003, EN55022, EN61000-6, CE
Hazardous areas:	UL1604/CSA C22.2/213 (Class I, Div.2), EN60079-15 (Zone 2, Category 3), CE (ATEX)
Maritime:	rated for Marine & offshore per ABS
Eye safety:	IEC60825-1, Class 1, FDA 21 CFR 1040.10 and 1040.12
Protection class:	IP40
MTBF:	1.000.000+ h
Execution:	Aluminum
Dimensions (WxHxD):	40.6 mm x 114.3 mm x 86.1 mm
Weight:	230 gram
Assembly:	DIN rail or wall mounting
Manufacturer:	Red Lion Controls, USA





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