

SL-5ES-3ST Sixnet Networking Series



- 4x 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 +60 °C
- Hazardous area (Zone 2), Maritime Rated
- Extremely reliable: MTBF 1,000,000+ h

<https://www.wachendorff-prozesstechnik.de/en/SLX-5ES-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

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| Operating mode: | Store and Forward |
| Switching engine: | wire-speed / non-blocking |
| Ethernet standards: | <ul style="list-style-type: none"> • IEEE 802.3 (Ethernet) • IEEE 802.3u (Fast Ethernet) • IEEE 802.3x (Full Duplex with flow control) |
| RJ45 ports: | 4x 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 μ s + frame time 10 Mbps: 16 μ 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: | 3.0 W |
| Protection (transient): | 15,000 W (peak power) |

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| Protection (spike): | 5,000 W (10x for 10 μ s) |
| Operating temperature: | -40 °C to +60 °C |
| Storage temperature: | -40 °C to +85 °C |
| Humidity: | 5 % to 95 % rH (non-condensing) |
| 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 1040.11 |
| Protection class: | IP40 |
| MTBF: | 1.000.000+ h |
| Execution: | UL94V0 Lexan |
| Dimensions (WxHxD): | 25.4 mm x 106.7 mm x 94.5 mm |
| Weight: | 110 g |
| Assembly: | DIN rail or wall mounting |
| Manufacturer: | Red Lion Controls, USA |



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