

NITE-RS FO

Unmanaged Industrial Ethernet Switches FO SC Duplex
Fast Ethernet



Reliable and space-saving networking with patch cords and fiber optics

- ▶ Flexible use with 24 VAC/VDC
- ▶ Minimal installation width 25 mm
- ▶ Temperature range -40 to +70°C
- ▶ Polarity protection
- ▶ 1-3 SC duplex fiber ports
- ▶ Multimode and Singlemode
- ▶ Stable mounting on 35 mm DIN rail
- ▶ PROFINET suitable

The NITE-RS fiber optic switches operate highly efficient in industrial environments with up to 3 SC duplex ports. Through the various combinations of fiber optic cable and copper port, all applications can be optimally planned. Through the use of multimode and singlemode transceivers, data can be transmitted via fiber optic cable 2 km and 10 km far electromagnetically decoupled.

General

Switch: IEEE802.3 Store and Forward; non-blocking wire speed

Auto-Negotiation, Auto-MDI-X, Auto-Polarity: Yes

Frame size: 1,522 Bytes

MAC table size: 2,000 addresses

Quality of Service: Yes – 4 priority queues

Energy Efficient Ethernet: No

Flow Control: No

PROFINET suitable: Yes

Port count (RJ45) **6+1** **4+2** **2+3**

MTBF (SN 29500, Mio. h) tbd tbd tbd

Frame Forwarding (Art.-No.) xxxxx0 xxxxx1

LLDP, PTCP Delay 01:80:C2:00:00:0E Forwarding Blocking

RSTP BPDU 01:80:C2:00:00:00 Forwarding Forwarding

Power supply / electronics

Nominal voltage: Vin 24 VAC / 24 VDC

Permitted voltage range: 12 to 28 VAC / 12 to 36 VDC

Connection type: 3-pole pluggable, screw connector (+ - FE)

Wire cross-section: 0.75 to 2.5 mm² (AWG 20 to 13)

Supply circuit: SELV DIN 60950 (circuit breaker 10 A)

Inrush current limiter: Yes

Input fuse: Yes, Interrupting rating 50 A @ 125 VAC / VDC

Polarity protection: Yes

PCB Conformal Coating: No

Protection category: III

Isolation: 0.75 kVDC; Vin ⇔ Ethernet Ports | Vin ⇔ housing

Port count (RJ45+SC-D) **6+1** **4+2** **2+3**

Power consumption (W)

Idle | full load 1,1 | 2,2 1,6 | 2,4 2,3 | 2,8

Input current (mA)

Idle | full load 44 | 90 66 | 100 95 | 115

Inrush current (A) 16 16 16

Mechanical properties

Housing material: Anodised aluminium, stainless steel

Mounting: 35 mm DIN rail

IP Protection class (operation): IP30

Port count (RJ45+SC-D) **6+1** **4+2** **2+3**

Width (mm) 25 25 25

Height (mm) 145 145 145

Depth (mm) 77.4 77.4 77.4

Weight (g) 320 320 320

Status and diagnostic indicators

LED: Power | Link/Activity per Port

Ethernet Interfaces

IEEE Standards: 802.3 10BaseT, 802.3u 100BaseT(X), 100BASE-FX

Isolation: 0.75 kVDC; Ethernet Port ⇔ housing | Port ⇔ Port

Connection type: RJ45

Port Count | Speed: 2,4,6 Ports | 10/100 Mbit/s

Cable length: 100 m (Twisted Pair, 0.14 mm² - 0.22 mm², Cat 5)

Connection type: SC-Duplex multimode, SC-Duplex singlemode

Port Count | Speed | WL: 1,2,3 Ports | 100 Mbit/s | 1310 nm

Cable length MM | SM: 2 km (50;62.5/125 μm) | 10 km (9/125 μm)

Transmission power MM | SM (dBm): -15 bis -3 | -15 bis -6

Sensitivity MM | SM (dBm): -23 | -32

EMC and environmental specifications

Operating temperature: -40°C to +70°C

Storage temperature: -40°C to +85°C

Relative humidity (operation): 0%-95% (not condensing)

Relative humidity (storage): 0%-95% (not condensing)

Atmospheric pressure (operation): 2,000 m (795 hPa)

EMC immunity: DIN EN - 50121-3-2, 61000-6-2, 55024

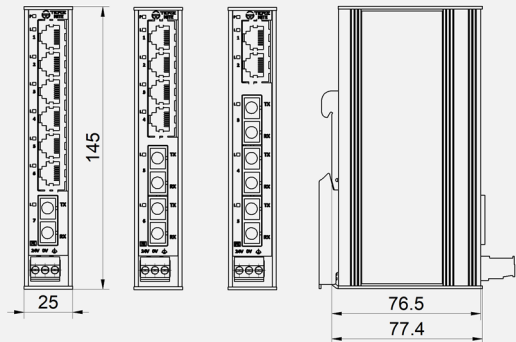
EMC radiated emission: DIN EN - 50121-3-2, 61000-6-4, 55032

Mechanical stability: DIN EN 61373

Approvals and certifications

CE, DIN EN 60950-1

Drawing



Products

| Article | Art.-No. | Spezifikation (RJ45+SC-D) |
|-----------------|----------|---------------------------|
| NITE-RS61-11000 | 21150100 | 6+1 MM LLDP Forward |
| NITE-RS42-11000 | 21130200 | 4+2 MM LLDP Forward |
| NITE-RS23-11000 | 21110300 | 2+3 MM LLDP Forward |
| NITE-RS61-11010 | 21150110 | 6+1 SM LLDP Forward |
| NITE-RS42-11010 | 21130210 | 4+2 SM LLDP Forward |
| NITE-RS23-11010 | 21110310 | 2+3 SM LLDP Forward |
| NITE-RS61-11001 | 21150101 | 6+1 MM LLDP Block |
| NITE-RS42-11001 | 21130201 | 4+2 MM LLDP Block |
| NITE-RS23-11001 | 21110301 | 2+3 MM LLDP Block |
| NITE-RS61-11011 | 21150111 | 6+1 SM LLDP Block |
| NITE-RS42-11011 | 21130211 | 4+2 SM LLDP Block |
| NITE-RS23-11011 | 21110311 | 2+3 SM LLDP Block |

