NITE-RW

Unmanaged Industrial Ethernet Switch RJ45
Full Gigabit Ethernet

TERZ
Industrial Electronics

Space-saving networking in the cabinet with high bandwidth and 28 mm installation depth

▶ Flexible use with 24 VAC/VDC

▶ Minimal installation depth 28 mm

▶ Temperature range -40 to +70°C

▶ Polarity protection

▶ 9 kB Jumbo Frames Support

▶ Inrush current limitation

▶ Stable wall mounting

▶ PROFINET suitable

Unmanaged Industrial Ethernet Switch RJ45
Full Gigabit Ethernet

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With an installation depth of only 28 mm and a height of 105 mm, the Industrial Ethernet switches impress with their extremely flat and high-quality aluminium housing. The ultra-compact switches can be used in any control cabinet thanks to the 24 VAC/VDC power supply with inrush current limiting and reverse polarity protection. Due to the reduced footprint and the arrangement of all connections on the front, switch cabinets and cabling can be optimized to reduce the costs. The wall mounting brackets made of metal, ensure a firm and secure hold. Like all TERZ Industrial Ethernet switches, the flat NITE-RW are available in two frame forwarding variants and fully suitable for PROFINET applications.

General

Switch: IEEE802.3 Store and Forward; non-blocking wire speed
Auto-Negotiation, Auto-MDI-X, Auto-Polarity: Yes
Frame size: 9,216 Bytes Jumbo Frames
MAC table size: 2,000 addresses
Quality of Service: Yes – 8 priority queues
Energy Efficient Ethernet: No
Flow Control: No
PROFINET suitable: Yes

Port count (RJ45)	**5**	**8**
MTBF (SN 29500, Mio. h)	2,028	1,434

Frame Forwarding (Art.-No.)	xxxxx**0**	xxxxx**1**
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 50/60 Hz / 24 VDC
Permitted voltage range: 12 to 28 VAC / 9 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)		**5**	**8**
Power usage (W) Min | Max	@24VDC	0,75 | 2,4	1,5 | 3,5
	@24VAC	1,0 | 2,9	1,8 | 3,9
Input current (mA) Min | Max)	@24VDC	35 | 100	60 | 145
	@24VAC	70 | 200	120 | 290
Inrush current (A)		16	16

Mechanical properties

Housing material: Anodised aluminium, stainless steel
Mounting: M4 hole for wall mounting
IP Protection class (operation)**:** IP30 (not part of the UL approval)

Port count (RJ45)	**5**	**8**
Width (mm)	69	85
Height (mm)	105	105
Depth (mm)	28	28
Weight (g)	210	260

Ethernet Interfaces

IEEE Standards: 802.3 10Base-T, 100Base-TX, 1000Base-T
Isolation: 0.75 kVDC; Ethernet Port ⇔ housing | Port ⇔ Port
Connection type: RJ45
Port Count | Speed: 5,8 Ports | 10/100 Mbit/s
Cable length: 100 m (Twisted Pair, 0.14 mm² - 0.22 mm², Cat 5)

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 - 61000-6-2, 55024
EMC radiated emission: DIN EN 61000-6-4, 55032
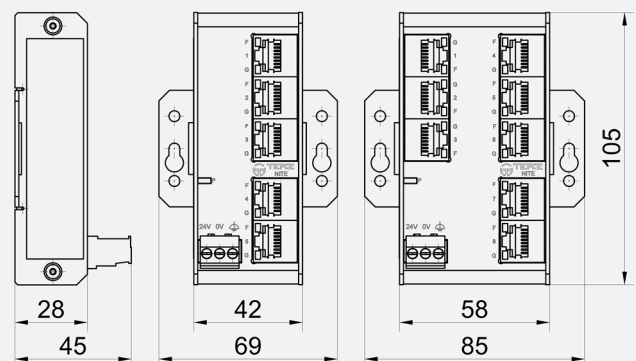**Mechanical stability:** DIN EN 61373

Approvals and certifications

CE, DIN EN 60950-1, Listed UL 61010 (US/CA) pending

Status and diagnostic indicators

LED: Link/Activity/Speed per Port

Drawing

Products

Article	Art.-No.	Specification
NITE-RW5-2190	121490	5xRJ45, IP30, GE, 24 V
NITE-RW8-2190	121690	8xRJ45, IP30, GE, 24 V
NITE-RW5-2191	121491	5xRJ45, IP30, GE, 24 V, LLDP Blocking
NITE-RW8-2191	121691	8xRJ45, IP30, GE, 24 V, LLDP Blocking