



Ethernet switch unmanaged gigabit ICRL-U-4RJ45/SFP-G-DIN

- Four - Gigabit RJ45 ports and one Gigabit SFP slot
- Rugged housing for use in harsh environments
- 9K bytes jumbo frame for large file transfers
- Power event alarm
- Wide power input 10-60V DC
- Suitable for PROFINET IO and EtherNet/IP

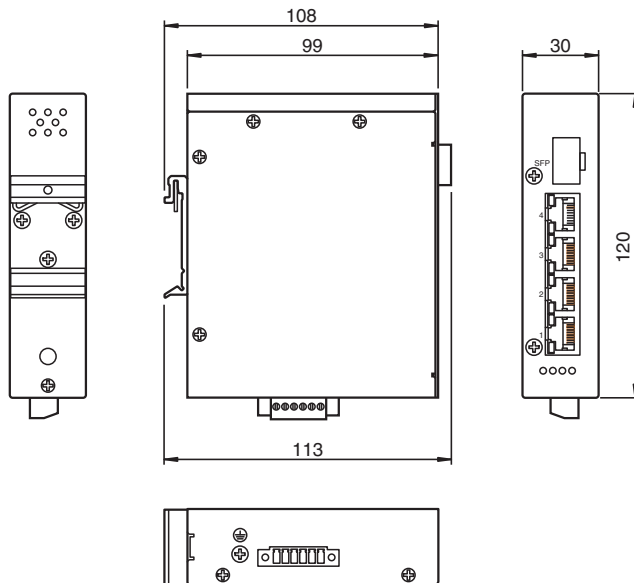
Ethernet unmanaged switch with 4 RJ45 gigabit ports, one gigabit SFP slot and fault alarm



Function

The ICRL-U-4RJ45/SFP-G-DIN is a compact unmanaged industrial switch with four 10/100/1000BASE-T(X) and one 1000BASE-F(X) ports, which ensures high switching performance and easy installation. Along with its high switching performance, it supports multiple internal performance features, such as 9K bytes Jumbo Frame, Flow Control, it ensures quality traffic transmission. The switch is designed for operating reliably under harsh environments, it supports one alarm relay to indicate fault conditions when a power failure occurs, users can quickly handle the emergency and shorten the failover time. It has an IP31 rugged metal housing that provides great injection protection and heat dispersion capability that supports a wide operating temperature range, and it complies to EN50121-4 Track Side Standard so that can ensure the EMC protection capability.

Dimensions



Technical Data

General specifications

UL File Number

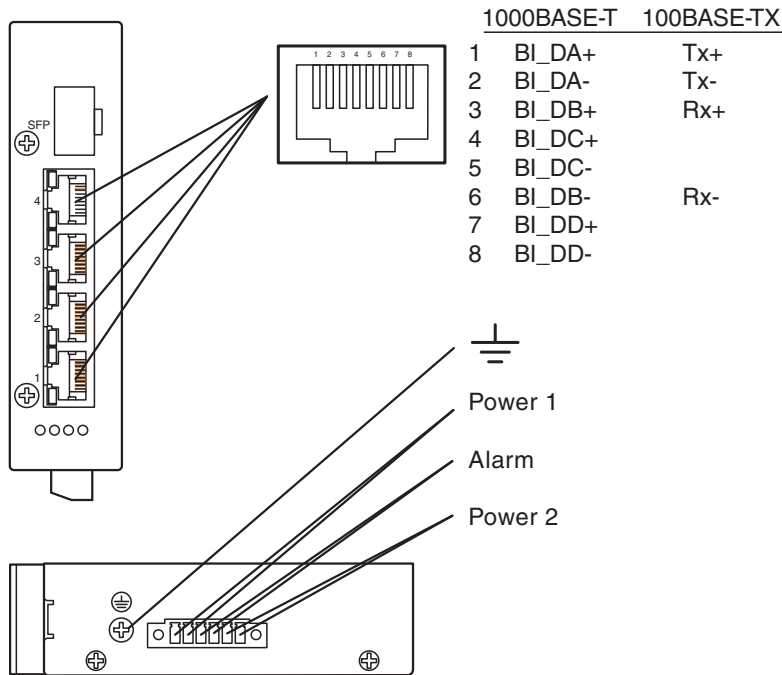
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Functional safety related parameters

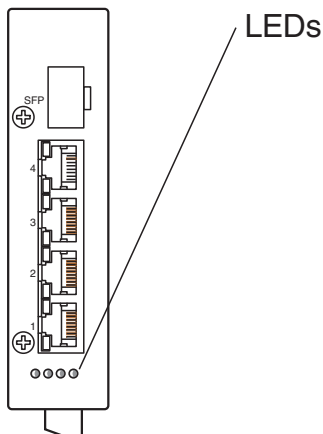
Technical Data

| | | |
|--|----------------|--|
| MTBF | | 45.3 years |
| Ethernet Interface | | |
| Auto-MDI(-X) | | yes |
| Autonegotiation | | yes |
| Ethernet Interface | | Industrial Ethernet |
| Transfer rate | | 10BASE-T, 100BASE-TX, 1000BASE-T |
| Cable type | | Category 5e or better |
| Standards | | |
| IEEE 802.3 10BASE-T | | yes |
| IEEE 802.3u 100BASE-TX | | yes |
| IEEE 802.3x Flow Control and Back-pressure | | yes |
| IEEE 802.3ab 1000BASE-T | | yes |
| Indicators/operating means | | |
| LED indication | | see manual |
| Electrical specifications | | |
| Rated operating voltage | U _e | 10 ... 60 V DC |
| Power consumption | | 3.6 W |
| General information | | Redundant power, power fault alarm, relay output rating 1A Max. @ 24V DC |
| Nominal voltage | | 24 V DC |
| Interface 1 | | |
| Physical | | RJ45 |
| Transfer rate | | 10/100/1000 Mbps |
| Inputs/Outputs | | |
| Number/Type | | 4 x RJ45 , 1 x SFP |
| Directive conformity | | |
| Electromagnetic compatibility | | |
| Directive 2014/30/EU | | EN61000-6-2, EN55024 , EN61000-6-4, EN55032 |
| Standard conformity | | |
| Emitted interference | | EN 55032, FCC Part 15 Subpart B, ICES-003, AS/NZS CISPR 32 |
| Noise immunity | | EN 55024, EN61000-6-2 |
| Ambient conditions | | |
| Ambient temperature | | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | | -40 ... 85 °C (-40 ... 185 °F) |
| Relative humidity | | max. 95 % |
| Altitude | | 0 ... 3048 m |
| Mechanical specifications | | |
| Degree of protection | | IP30 |
| Connection | | Power Supply Terminal Block Ethernet 5 x RJ45 |
| Material | | |
| Housing | | aluminium, black |
| Mass | | 650 g |
| Construction type | | Cabinet module |
| Mounting | | DIN rail or direct panel mounting |

Wiring Diagram























Indication











Accessories

| | | |
|--|------------------------------------|--|
| | V45-G-C5-GN1M-PUR-E1S | Ethernet bus cable male cordset single-ended RJ45, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable |
| | V45-G-C5-GN3M-PUR-E1S | Ethernet bus cable male cordset single-ended RJ45, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable |
| | V45-G-C5-GN10M-PUR-E1S | Ethernet bus cable male cordset single-ended RJ45, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable |
| | V45-G-C5-GN1M-PUR-E1S-V45-G | Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable |
| | V45-G-C5-GN3M-PUR-E1S-V45-G | Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable |

Accessories

| | | |
|---|-------------------------------------|---|
|  | V45-G-C5-GN10M-PUR-E1S-V45-G | Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable |
|  | V45-G-C5-GN20M-PUR-E1S-V45-G | Ethernet bus cable RJ45 to RJ45 PROFINET-coded, 4-pin, PUR cable green, Cat5e, shielded, UL approved, drag chain suitable |
|  | SFP-M-2KM-F-N | Multi-mode 2KM 100BASE-FX Fast Ethernet Fiber SFP |
|  | SFP-M-2KM-F-W | Multi-mode 2KM 100BASE-FX Fast Ethernet Fiber SFP |
|  | SFP-M-2KM-G-W | Multi-mode 2KM 100BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-M-550M-G-N | Multi-mode 550m 1000BASE-SX Gigabit Ethernet Fiber SFP |
|  | SFP-M-550M-G-W | Multi-mode 550m 1000BASE-SX Gigabit Ethernet Fiber SFP |
|  | SFP-S-100KM-F-W | Single-mode 100KM 100BASE-ZX Fast Ethernet Fiber SFP |
|  | SFP-S-10KM-G-N | Single-mode 10KM 1000BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-S-10KM-G-W | Single-mode 10KM 1000BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-S-10KM-G-W-BIDI-A | Single-mode BiDi-A 10KM 1000BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-S-10KM-G-W-BIDI-B | Single-mode BiDi-B 10KM 1000BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-S-110KM-G-W | Single-mode 110KM 1000BASE-UZX Gigabit Ethernet Fiber SFP |
|  | SFP-S-120KM-F-W | Single-mode 120KM 100BASE-FX Fast Ethernet Fiber SFP |
|  | SFP-S-20KM-F-W | Single-mode 20KM 100BASE-FX Fast Ethernet Fiber SFP |
|  | SFP-S-20KM-F-W-BIDI-A | Single-mode BiDi-A 20KM 100BASE-BX Fast Ethernet Fiber SFP |
|  | SFP-S-20KM-F-W-BIDI-B | Single-mode BiDi-B 20KM 100BASE-BX Fast Ethernet Fiber SFP |
|  | SFP-S-20KM-G-W | Single-mode 20KM 1000BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-S-20KM-G-W-BIDI-A | Single-mode BiDi-A 20KM 1000BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-S-20KM-G-W-BIDI-B | Single-mode BiDi-B 20KM 1000BASE-LX Gigabit Ethernet Fiber SFP |

Accessories

| | | |
|---|-----------------------|---|
|  | SFP-S-30KM-F-N | Single-mode 30KM 100BASE-LX Fast Ethernet Fiber SFP |
|  | SFP-S-30KM-F-W | Single-mode 30KM 100BASE-LX Fast Ethernet Fiber SFP |
|  | SFP-S-30KM-G-W | Single-mode 30KM 1000BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-S-40KM-G-W | Single-mode 40KM 1000BASE-EX Gigabit Ethernet Fiber SFP |
|  | SFP-S-50KM-G-W | Single-mode 50KM 1000BASE-XD Gigabit Ethernet Fiber SFP |
|  | SFP-S-60KM-F-W | Single-mode 60KM 100BASE-ZX Fast Ethernet Fiber SFP |
|  | SFP-S-70KM-G-W | Single-mode 70KM 1000BASE-LX Gigabit Ethernet Fiber SFP |
|  | SFP-S-90KM-G-W | Single-mode 90KM 1000BASE-ZX Gigabit Ethernet Fiber SFP |