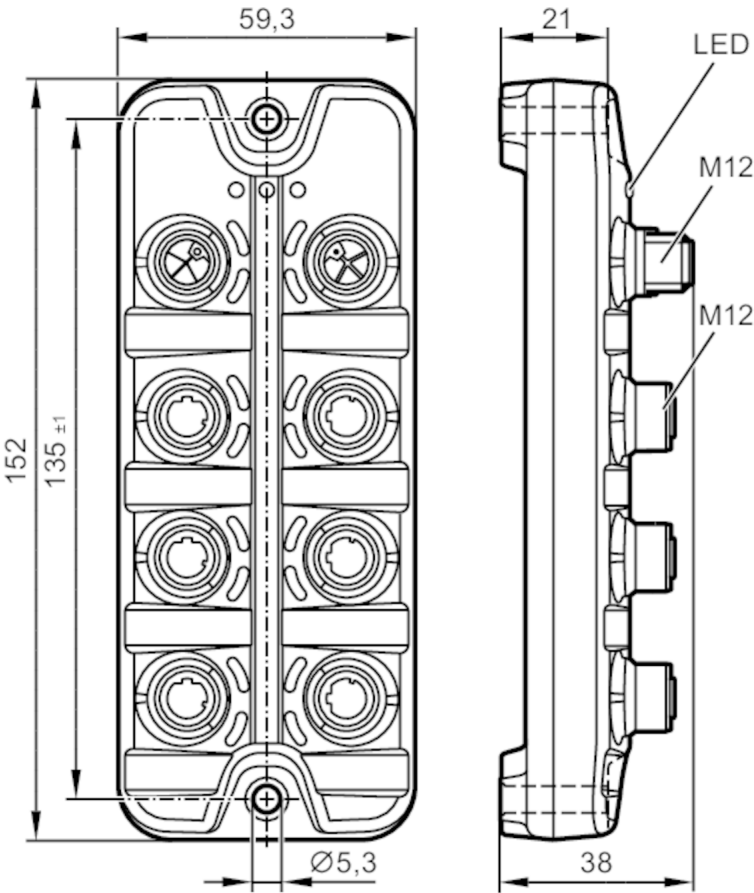


AL3100



PROFINET-Switch

ETH Switch PFL PN-A 6P IP67



Depending on the version some LEDs are inactive



| Application                   |                                         |
|-------------------------------|-----------------------------------------|
| Design                        | unmanaged switch for field applications |
| Application                   | für PROFINET-Netzwerke                  |
| Daisy-chain function          | voltage supply                          |
| Electrical data               |                                         |
| Operating voltage [V]         | 8...32 DC; ((US ; to SELV/PELV))        |
| Nominal voltage DC [V]        | 12 / 24                                 |
| Current consumption [mA]      | 100; (US; 24 V: 50 mA)                  |
| Protection class              | III                                     |
| Reverse polarity protection   | yes                                     |
| Interfaces                    |                                         |
| Communication interface       | Ethernet                                |
| Number of Ethernet interfaces | 6                                       |
| Transmission standard         | 10Base-T; 100Base-TX                    |
| Transmission rate             | 10 MBit/s; 100 MBit/s                   |

# AL3100



## PROFINET-Switch

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|                    |                                                    |
|--------------------|----------------------------------------------------|
| Note on interfaces | PROFINET Conformance Class A (CC-A)                |
|                    | processing type: Store and Forward                 |
|                    | auto polarity                                      |
|                    | auto negotiation                                   |
|                    | auto MDI-X                                         |
|                    | QoS (Quality of Service): IEEE 802.1p, IEEE 802.1Q |
|                    | priority queues: 4                                 |
|                    | MAC table size: 2000 addresses                     |
|                    | blocking: LLDP, PTCP 01:80:C2:00:00:0E             |

| Operating conditions         |                 |                                     |
|------------------------------|-----------------|-------------------------------------|
| Ambient temperature          | [°C]            | -25...70                            |
| Storage temperature          | [°C]            | -25...85                            |
| Max. relative air humidity   | [%]             | 90                                  |
| Max. height above sea level  | [m]             | 4000                                |
| Protection                   |                 | IP 65; IP 66; IP 67                 |
| Protection rating (NEMA 250) |                 | 6P                                  |
| Degree of soiling            |                 | 2                                   |
| Chemical media               | ISO 16750-5     | AA, BA, BD, HLP, CC, DB, DC, DD, CA |
|                              | NEMA 250 5.13.1 | AA                                  |

| Tests / approvals        |                                                   |                                            |
|--------------------------|---------------------------------------------------|--------------------------------------------|
| EMC                      | UN/ECE-R10 Noise emission and noise interference: | 100 V/m                                    |
|                          | DIN EN 61000-6-2 ESD                              |                                            |
|                          | DIN EN 61000-6-4 Burst                            |                                            |
|                          | ISO 7637-2 pulse 1                                | severity level 4 / function state C (12 V) |
|                          | ISO 7637-2 pulse 2a                               | severity level 4 / function state A (12 V) |
|                          | ISO 7637-2 pulse 2b                               | severity level 4 / function state C (12 V) |
|                          | ISO 7637-2 pulse 3a                               | severity level 4 / function state A (12 V) |
|                          | ISO 7637-2 pulse 3b                               | severity level 4 / function state A (12 V) |
|                          | ISO 7637-2 pulse 4                                | severity level 4 / function state A (12 V) |
|                          | ISO 7637-2 pulse 5a                               | severity level 3 / function state A (12 V) |
|                          | ISO 7637-2 pulse 1                                | severity level 4 / function state C (24 V) |
|                          | ISO 7637-2 pulse 2a                               | severity level 4 / function state A (24 V) |
|                          | ISO 7637-2 pulse 2b                               | severity level 4 / function state C (24 V) |
|                          | ISO 7637-2 pulse 3a                               | severity level 4 / function state A (24 V) |
|                          | ISO 7637-2 pulse 3b                               | severity level 4 / function state A (24 V) |
|                          | ISO 7637-2 pulse 4                                | severity level 4 / function state A (24 V) |
| Shock resistance         | DIN EN 60068-2-27                                 |                                            |
| Fast temperature changes | EN 60068-2-30                                     |                                            |
|                          | EN 60068-2-78                                     |                                            |
|                          | EN 60068-2-52                                     |                                            |
| Vibration resistance     | DIN EN 60068-2-64                                 |                                            |
|                          | DIN EN 60068-2-6                                  |                                            |
|                          | EN 60068-2-27                                     |                                            |

| Mechanical data  |     |                                                 |
|------------------|-----|-------------------------------------------------|
| Weight           | [g] | 315.15                                          |
| Material         |     | housing: PA orange; Socket: brass nickel-plated |
| Sealing material |     | FKM                                             |



PROFINET-Switch

ETH Switch PFL PN-A 6P IP67

| Remarks       |                                                 |
|---------------|-------------------------------------------------|
| Remarks       | Further information is available in the manual. |
| Pack quantity | 1 pcs.                                          |

Electrical connection - Ethernet

Connector: 6 x M12; coding: D; sealing: FKM



X1...X6

|   |      |
|---|------|
| 1 | TX + |
| 2 | RX + |
| 3 | TX - |
| 4 | RX - |
| 5 | n.c. |

Electrical connection - voltage supply IN

Connector: 1 x M12; coding: L



XD1

|   |                |
|---|----------------|
| 1 | + 24 V DC (US) |
| 2 | GND (UA)       |
| 3 | GND (US)       |
| 4 | + 24 V DC (UA) |
| 5 | FE             |

Electrical connection - voltage supply OUT

Connector: 1 x M12; coding: L; sealing: FKM



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## PROFINET-Switch

ETH Switch PFL PN-A 6P IP67

| XD2 |                |
|-----|----------------|
| 1   | + 24 V DC (US) |
| 2   | GND (UA)       |
| 3   | GND (US)       |
| 4   | + 24 V DC (UA) |
| 5   | FE             |