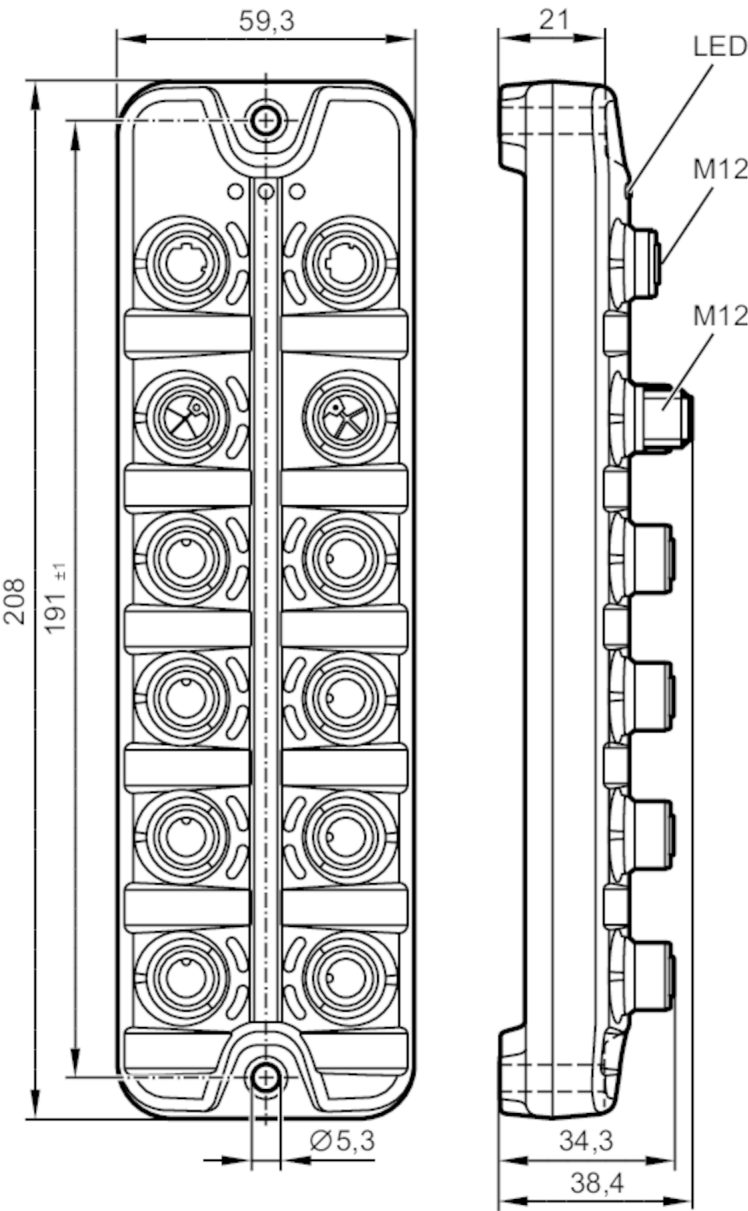


AL4123



Ethernet module with EtherNet/IP interface

ETH Module PFL EIP 16DI IP69K



Depending on the version some LEDs are inactive



| Application                 |      |                                                      |
|-----------------------------|------|------------------------------------------------------|
| Application                 |      | hygienic systems; I/O modules for field applications |
| Daisy-chain function        |      | power supply; fieldbus interface                     |
| Electrical data             |      |                                                      |
| Operating voltage           | [V]  | 20...28 DC; (US ; to SELV/PELV)                      |
| Current consumption         | [mA] | 200...3900; (cULus: 200 ... 3500; US)                |
| Protection class            |      | III                                                  |
| Max. current load total     | [A]  | 3.6                                                  |
| Overall current rating (UL) | [A]  | 3.2                                                  |



## Ethernet module with EtherNet/IP interface

ETH Module PFL EIP 16DI IP69K

| Inputs / outputs                                |                                                                                       |                                                                                         |
|-------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Number of inputs and outputs                    | Number of digital inputs: 16                                                          |                                                                                         |
| Inputs                                          |                                                                                       |                                                                                         |
| Number of digital inputs                        | 16; (type 2 according to IEC 61131-2)                                                 |                                                                                         |
| Switching level high [V]                        | 11...30                                                                               |                                                                                         |
| Switching level low [V]                         | 0...5                                                                                 |                                                                                         |
| Digital inputs protected against short circuits | yes                                                                                   |                                                                                         |
| Software / programming                          |                                                                                       |                                                                                         |
| Parameter setting options                       | counter function                                                                      |                                                                                         |
| Functions and parameters                        | function                                                                              | CTU (Up Counter), CTD (Down Counter), CTUD (Up-Down Counter), CTDIR (Direction Counter) |
|                                                 | number                                                                                | 8 (1 counter for each port)                                                             |
|                                                 | count frequency                                                                       | 4500 Hz                                                                                 |
|                                                 | main counter                                                                          | 32 Bit (0...4.294.967.295)                                                              |
|                                                 | batch counter                                                                         | 16 Bit (0...65.535)                                                                     |
| Interfaces                                      |                                                                                       |                                                                                         |
| Communication interface                         | Ethernet                                                                              |                                                                                         |
| Ethernet - EtherNet/IP                          |                                                                                       |                                                                                         |
| Transmission standard                           | 10Base-T; 100Base-TX                                                                  |                                                                                         |
| Transmission rate                               | 10 MBit/s; 100 MBit/s                                                                 |                                                                                         |
| Protocol                                        | EtherNet/IP                                                                           |                                                                                         |
| Factory settings                                | IP address: 192.168.1.250                                                             |                                                                                         |
|                                                 | subnet mask: 255.255.255.0                                                            |                                                                                         |
|                                                 | gateway IP address: 0.0.0.0                                                           |                                                                                         |
|                                                 | MAC address: see type label                                                           |                                                                                         |
| Note on interfaces                              | DHCP, BOOTP, static                                                                   |                                                                                         |
|                                                 | DLR (Device Level Ring)                                                               |                                                                                         |
|                                                 | Supported network topologies: line                                                    |                                                                                         |
|                                                 | ring                                                                                  |                                                                                         |
| Operating conditions                            |                                                                                       |                                                                                         |
| Ambient temperature [°C]                        | -25...60                                                                              |                                                                                         |
| Storage temperature [°C]                        | -25...85                                                                              |                                                                                         |
| Max. relative air humidity [%]                  | 90                                                                                    |                                                                                         |
| Protection                                      | IP 65; IP 66; IP 67; IP 69K; (operation with stainless steel protective caps: IP 69K) |                                                                                         |
| Protection rating (NEMA 250)                    | 6P                                                                                    |                                                                                         |
| Pollution degree                                | 2                                                                                     |                                                                                         |
| Chemical media                                  | ISO 16750-5                                                                           | HLP, CC, DB, DC, DD, CA                                                                 |
|                                                 | NEMA 250 5.13.1                                                                       | AA                                                                                      |
| Tests / approvals                               |                                                                                       |                                                                                         |
| EMC                                             | EN 61000-6-2                                                                          |                                                                                         |
|                                                 | EN 61000-6-4                                                                          |                                                                                         |
| Shock resistance                                | DIN EN 60068-2-27                                                                     |                                                                                         |
| Vibration resistance                            | DIN EN 60068-2-64 2009-04                                                             |                                                                                         |
|                                                 | DIN EN 60068-2-6 2008-10                                                              |                                                                                         |



Ethernet module with EtherNet/IP interface

ETH Module PFL EIP 16DI IP69K

|      |         |     |
|------|---------|-----|
| MTTF | [years] | 129 |
|------|---------|-----|

Mechanical data

|                  |                                                         |     |
|------------------|---------------------------------------------------------|-----|
| Weight           | [g]                                                     | 437 |
| Materials        | housing: PA grey; socket: stainless steel (316L/1.4404) |     |
| Sealing material | EPDM                                                    |     |

Accessories

|                |                                                  |
|----------------|--------------------------------------------------|
| Items supplied | Protective cap: 1 x M12, stainless steel, E12542 |
|----------------|--------------------------------------------------|

Remarks

|               |                                                                |
|---------------|----------------------------------------------------------------|
| Remarks       | For further information please see the operating instructions. |
| Pack quantity | 1 pcs.                                                         |

Electrical connection - Ethernet

Connector: M12; coding: D; Sealing: EPDM

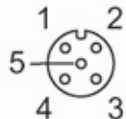


IN / OUT XF1, XF2

|   |          |
|---|----------|
| 1 | TX +     |
| 2 | RX +     |
| 3 | TX -     |
| 4 | RX -     |
| 5 | not used |

Electrical connection - Process connection

Connector: M12; coding: A; Sealing: EPDM



Digital Input X1...X8

|   |                        |
|---|------------------------|
| 1 | Sensor supply (US) L + |
| 2 | digital input 2        |
| 3 | Sensor supply (US) L-  |
| 4 | digital input 1        |
| 5 | functional earth       |



Ethernet module with EtherNet/IP interface

ETH Module PFL EIP 16DI IP69K

Electrical connection - power supply IN

Connector: M12; coding: L



XD1

|   |                      |
|---|----------------------|
| 1 | + 24 V DC (US) brown |
| 2 | GND (UA) white       |
| 3 | GND (US) blue        |
| 4 | + 24 V DC (UA) black |
| 5 | FE grey              |

Electrical connection - power supply OUT

Connector: M12; coding: L; Sealing: EPDM



XD2

|   |                      |
|---|----------------------|
| 1 | + 24 V DC (US) brown |
| 2 | GND (UA) white       |
| 3 | GND (US) blue        |
| 4 | + 24 V DC (UA) black |
| 5 | FE grey              |