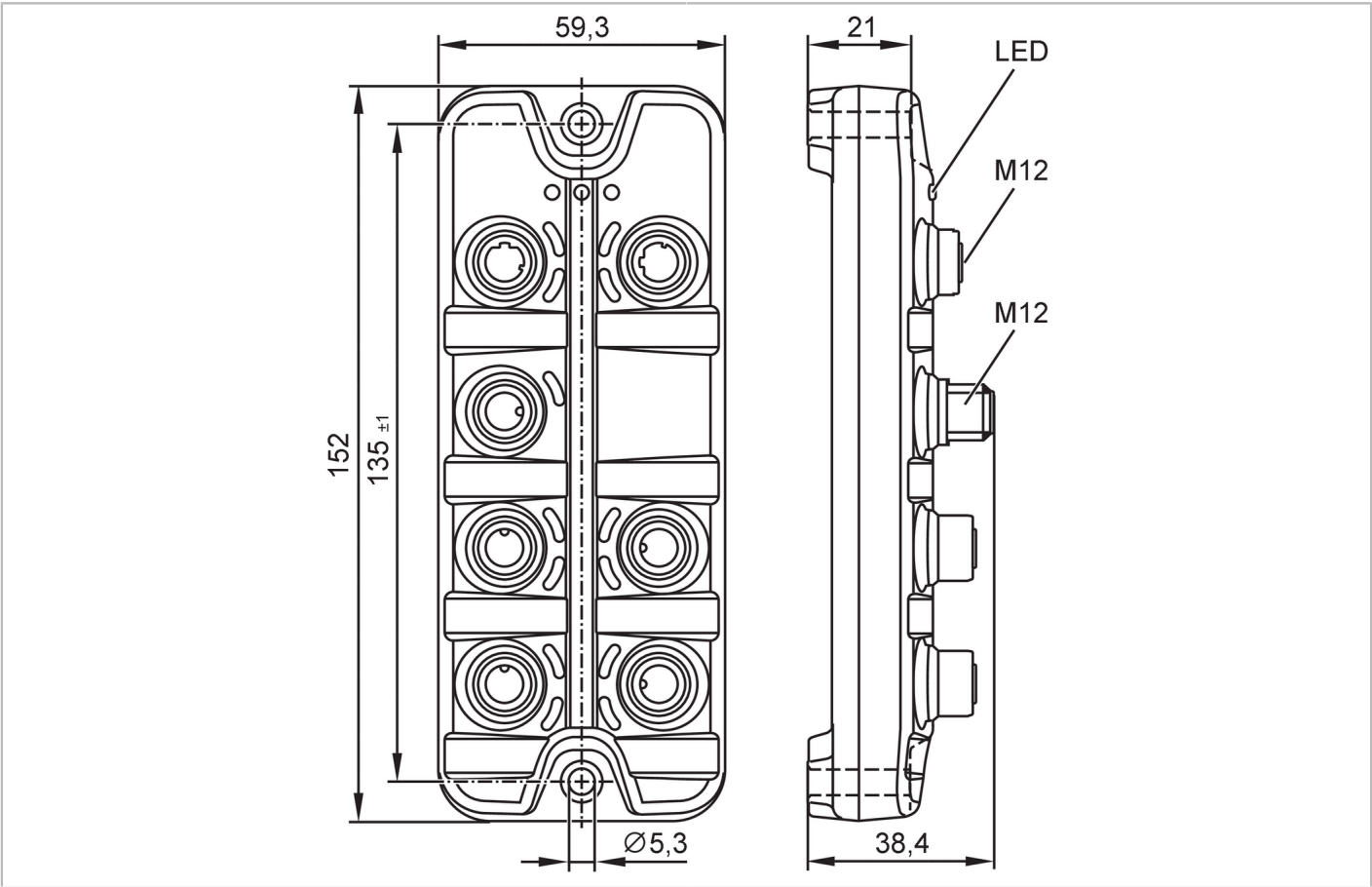


# AL1350



## IO-Link master with IoT interface

IO-Link Master DL IoT 4P IP67



| Application                                     |                                                           |
|-------------------------------------------------|-----------------------------------------------------------|
| Application                                     | I/O modules for field applications                        |
| Loop-through function                           | fieldbus interface                                        |
| Electrical data                                 |                                                           |
| Operating voltage [V]                           | 20...30 DC; (US ; to SELV/PELV)                           |
| Current consumption [mA]                        | 300...3900; (US)                                          |
| Protection class                                | III                                                       |
| Sensor supply US                                |                                                           |
| Max. current load total [A]                     | 3.6                                                       |
| Inputs / outputs                                |                                                           |
| Total number of inputs and outputs              | 8; (configurable)                                         |
| Number of inputs and outputs                    | Number of digital inputs: 8; Number of digital outputs: 4 |
| Inputs                                          |                                                           |
| Number of digital inputs                        | 8; (IO-Link Port Class A: 4 x 2)                          |
| Switching level high [V]                        | 11...30                                                   |
| Switching level low [V]                         | 0...5                                                     |
| Digital inputs protected against short circuits | yes                                                       |



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| Outputs                           |                                                                |                                     |
|-----------------------------------|----------------------------------------------------------------|-------------------------------------|
| Number of digital outputs         | 4; (IO-Link Port Class A: 4 x 1)                               |                                     |
| Max. current load per output [mA] | 300                                                            |                                     |
| Short-circuit proof               | yes                                                            |                                     |
| Interfaces                        |                                                                |                                     |
| Communication interface           | Ethernet; IO-Link                                              |                                     |
| Ethernet - Internet of Things     |                                                                |                                     |
| Transmission standard             | 10Base-T; 100Base-TX                                           |                                     |
| Transmission rate                 | 10 MBit/s; 100 MBit/s                                          |                                     |
| Protocol                          | MQTT JSON                                                      |                                     |
| Factory settings                  | IP address: 169.254.x.x                                        |                                     |
|                                   | subnet mask: 255.255.0.0                                       |                                     |
|                                   | gateway IP address: 0.0.0.0                                    |                                     |
|                                   | MAC address: see type label                                    |                                     |
| Note on interfaces                | Secure protocol: HTTPS                                         |                                     |
| IO-Link Master                    |                                                                |                                     |
| Transmission type                 | COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)        |                                     |
| IO-Link revision                  | 1.1                                                            |                                     |
| Number of ports class A           | 4                                                              |                                     |
| Operating conditions              |                                                                |                                     |
| Ambient temperature [°C]          | -25...60                                                       |                                     |
| Storage temperature [°C]          | -25...85                                                       |                                     |
| Max. relative air humidity [%]    | 90                                                             |                                     |
| Protection                        | IP 65; IP 66; IP 67                                            |                                     |
| Protection rating (NEMA 250)      | 6P                                                             |                                     |
| Pollution degree                  | 2                                                              |                                     |
| Chemical media                    | ISO 16750-5                                                    | AA, BA, BD, 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                                       |                                     |
| MTTF [years]                      | 126                                                            |                                     |
| Mechanical data                   |                                                                |                                     |
| Weight [g]                        | 295                                                            |                                     |
| Housing                           | rectangular                                                    |                                     |
| Type of mounting                  | backplane mounting                                             |                                     |
| Dimensions [mm]                   | 152 x 59.3 x 38.4                                              |                                     |
| Materials                         | housing: PA orange; socket: brass nickel-plated                |                                     |
| Sealing material                  | FKM                                                            |                                     |
| Remarks                           |                                                                |                                     |
| Remarks                           | For further information please see the operating instructions. |                                     |

# AL1350



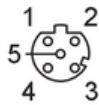
## IO-Link master with IoT interface

IO-Link Master DL IoT 4P IP67

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection - Ethernet

Connector: 2 x M12; coding: D; Contacts: 4; Sealing: FKM

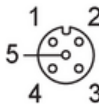


### IoT X21, X22

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

### Electrical connection - IO-Link

Connector: 4 x M12; coding: A; Contacts: 4; Sealing: FKM



### IO-Link Port Class A X01...X04

|   |                       |
|---|-----------------------|
| 1 | Sensor supply (US) L+ |
| 2 | digital input         |
| 3 | Sensor supply (US) L- |
| 4 | C/Q IO-Link           |
| 5 | not used              |

### Electrical connection - voltage supply

Connector: 1 x M12; coding: A; Contacts: 4



### X31

|   |                |
|---|----------------|
| 1 | + 24 V DC (US) |
| 2 | not used       |
| 3 | GND (US)       |
| 4 | not used       |