

## FCEI-8LKM-4A4B

## ARTICLE PROPERTIES

|                     |                 |                        |                                     |
|---------------------|-----------------|------------------------|-------------------------------------|
| <b>PRODUCT TYPE</b> | IO-Link Master  | <b>PROTOCOL</b>        | EtherNet/IP                         |
| <b>DESCRIPTION</b>  | 8 IO-Link ports | <b>OPERATING MODES</b> | Auto-negotiation,<br>Auto-MDI/MDI-X |
|                     |                 | <b>TRANSFER RATE</b>   | 10/100 Mbps                         |

## ELECTRICAL DATA

|  |                                       |                                    |  |
|--|---------------------------------------|------------------------------------|--|
| <b>SUPPLY VOLTAGE</b>                  | 24 V DC (18 ... 30 V DC)              | <b>IO-LINK PORTS</b>               | 8  |
| <b>CURRENT CONSUMPTION</b>             | Max. 200 mA                           | <b>IO-LINK TYPE</b>                | 4*Class-A + 4*Class-B                                      |
| <b>SYSTEM &amp; INPUT SUPPLY</b>       | Us, Max. 8 A                          | <b>IO-LINK VERSION</b>             | IO-Link V1.1.2   |
| <b>OUTPUT SUPPLY</b>                   | Ua, Max. 8 A                          | <b>IO-LINK COMMUNICATION RATES</b> | COM1 (4.8 kbps),<br>COM2 (38.4 kbps),<br>COM3 (230.4 kbps) |
| <b>ELECTRICAL ISOLATION</b>            | Us and Ua completely separated        | <b>INPUT CHANNELS</b>              | Max. 12  |
| <b>POWER SUPPLY</b>                    | 2 x 7/8" 5 pin, Male + Female         | <b>INPUT SUPPLY CURRENT</b>        | IO-Link: 1.6 A per channel,<br>Signal: 200 mA per channel  |
| <b>FIELDBUS</b>                        | 2 x M12 D-code 4 pin, Female          | <b>INPUT TYPE</b>                  | PNP sensors, mechanical switches, dry contacts, etc.       |
| <b>SIGNALS</b>                         | 8 x M12 A-code 5 pin, Female          | <b>INPUT DELAY</b>                 | 3.2 ms   |
| <b>COMMUNICATION INDICATION</b>        | LED indication, communication message | <b>OUTPUT CHANNELS</b>             | Max. 12  |
| <b>VOLTAGE DETECTION</b>               | Support, low voltage alarm            | <b>OUTPUT CURRENT</b>              | Max. 2 A per channel                                       |
| <b>SHORT-CIRCUIT &amp; OVERLOAD</b>    | Support, LED indication               | <b>OUTPUT TYPE</b>                 | Lamps, solenoidvalve, etc.                                 |
| <b>ACTUATOR SUPPLY UA INDICATOR</b>    | Green LED                             | <b>OUTPUT FREQUENCY</b>            | Resistive load 100 Hz,<br>Inductive load 5 Hz              |
| <b>IO-LINK COMMUNICATION INDICATOR</b> | Yellow LED                            |                                    |  |
| <b>SENSOR SUPPLY US INDICATOR</b>      | Green LED                             |                                    |  |

## FUNCTIONAL SAFETY

|                     |     |
|---------------------|-----|
| <b>MTTF (40 °C)</b> | 46a |
|---------------------|-----|

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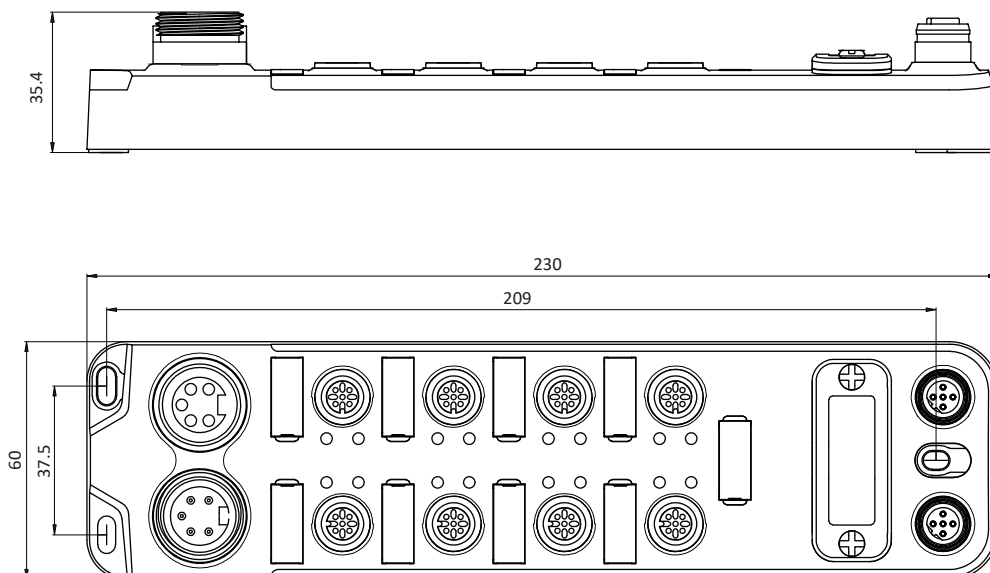
GENERAL DATA

|                         |                                    |                              |                    |
|-------------------------|------------------------------------|------------------------------|--------------------|
| <b>HOUSING MATERIAL</b> | Reinforced nylon + fiberg-<br>lass | <b>OPERATING TEMPERATURE</b> | -25 ... +70 °C     |
| <b>PROTECTION CLASS</b> | IP67                               | <b>STORAGE TEMPERATURE</b>   | -40 ... +85 °C     |
|                         |                                    | <b>DIMENSIONS</b>            | 60 × 230 × 35.4 mm |

APPROVALS



DIMENSIONS



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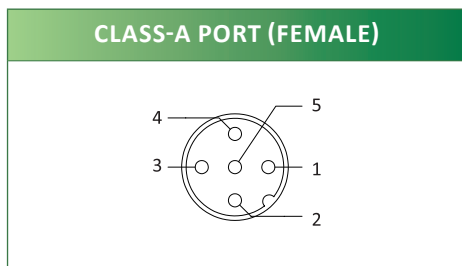
VOLTAGE SUPPLY DRAWING

| POWER IN (MALE) | POWER OUT (FEMALE) | FUNCTION                      |
|-----------------|--------------------|-------------------------------|
|                 |                    | 1 - Auxiliary supply_Ua-      |
|                 |                    | 2 - System / input supply_Us- |
|                 |                    | 3 - Protective earth_PE       |
|                 |                    | 4 - System / input supply_Us+ |
|                 |                    | 5 - Auxiliary supply_Ua+      |

FIELD BUS DRAWING

| BUS IN (FEMALE) | BUS OUT (FEMALE) | FUNCTION         |
|-----------------|------------------|------------------|
|                 |                  | 1 - Transmit TD+ |
|                 |                  | 2 - Receive RD+  |
|                 |                  | 3 - Transmit TD- |
|                 |                  | 4 - Receive RD-  |

I/O PORT DRAWING



| I/O PORT (FEMALE)       | CLASS-A PORT (FEMALE)        | CLASS-B PORT (FEMALE)        |
|-------------------------|------------------------------|------------------------------|
| 1 - Power supply_24 V+  | 1 - Power supply_24 V+       | 1 - Power supply_24 V+       |
| 2 - Signal IN/OUT_2     | 2 - Signal IN/OUT            | 2 - Auxiliary supply_P24     |
| 3 - Power supply_GND    | 3 - Power supply_GND         | 3 - Power supply_GND         |
| 4 - Signal IN/OUT_1     | 4 - IO-Link or signal IN/OUT | 4 - IO-Link or signal IN/OUT |
| 5 - Protective earth_PE | 5 - Protective earth_PE      | 5 - Auxiliary supply_N24     |

## FCEI-8LKM-4A4B

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