# IE2021 | Extension Box, 8-channel digital output, 24 V DC, 2 A, M8



IP-Link interface

M8 I/O connection sockets

Signal status display

Labeling areas

Power supply status display:
Box supply (U$_S$)

Power supply feed

Auxiliary voltage (U$_P$)

Power supply downstream connection

Top view

3-wire    2-wire

1 | +24 V DC U$_S$
3 | GND
4 | Output

2 4        4 2
1 3   1 3
IN        OUT

1 | +24 V DC U$_S$
2 | +24 V DC U$_P$
3 | GND
4 | GND

I/O connection    Connector assignment
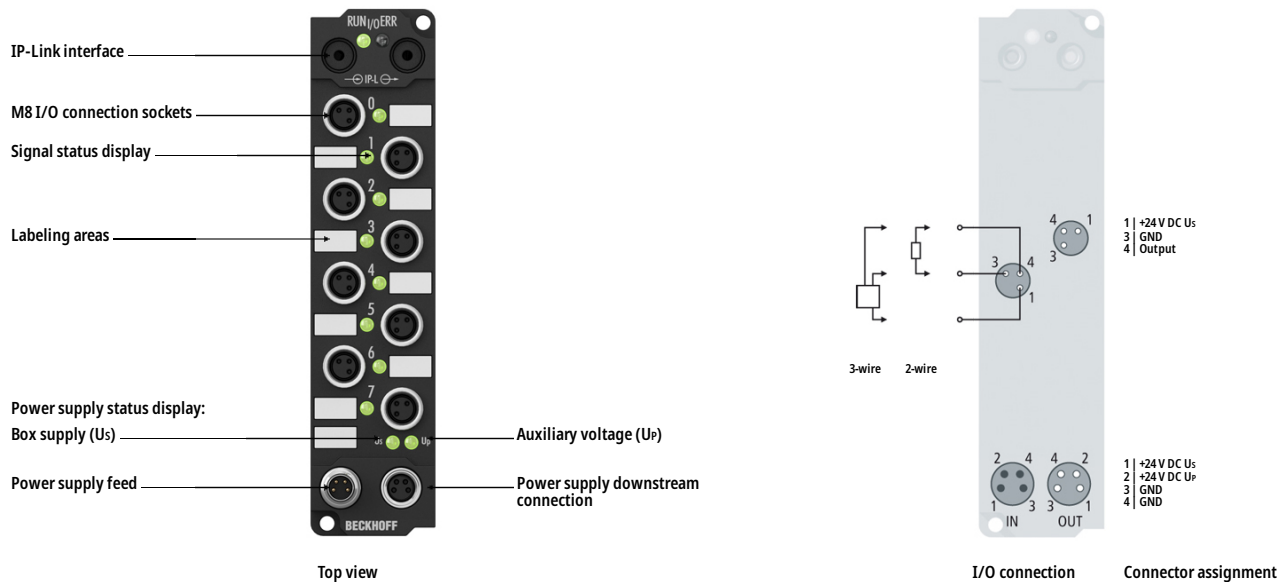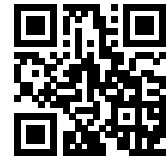
**Product status:** Regular delivery

The IE2021 digital output module connects the binary control signals from the automation unit on to the actuators at the process level. The eight outputs handle load currents of up to 2 A each, although the total current is limited to 4 A. This makes this module particularly suitable for applications in which not all of the outputs are active at the same time, or in which not all of the actuators draw 2 A signal current.

The signal state is indicated by means of light emitting diodes. The signals are connected via M8 screw type connectors.

The outputs are short-circuit-proof and protected against inverse connection.

## Product information

### Technical data

| Technical data | IE2021 |
|---|---|
| Number of outputs | 8 |
| Output connections | M8, screw type |
| Load type | ohmic, inductive, lamp load |
| Nominal output voltage | 24 V DC (-15 %/+20 %) |
| Max. output current | 2 A per channel, individually short-circuit proof, $\sum$ 4 A |
| Short-circuit current | max. 4 A |
| Auxiliary power current | typ. 30 mA per channel |

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| Current consumption from Us (without sensor current) | 25 mA |
|---|---|
| Power supply connection | feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin |
| Bit width in the process image | 8 outputs |
| Electrical isolation | channels/control voltage: no, between the channels: no, control voltage/fieldbus: yes, via IP-Link |
| Operating/storage temperature | 0...+55 °C/-25...+85 °C |
| Vibration/shock resistance | conforms to EN 60068-2-6/EN 60068-2-27 |
| EMC immunity/emission | conforms to EN 61000-6-2/EN 61000-6-4 |
| Protect. rating/installation pos. | IP65/66/67 (conforms to EN 60529)/variable |
| Approvals/markings | CE, UL |

| Housing data | Extension Box |
|---|---|
| Dimensions (W x H x D) | 30 mm x 126 mm x 26.5 mm |
| Material | PA6 (polyamide) |
| Installation | 2 fixing holes 3.5 mm diameter for M3 |

## Accessories

| Accessories | |
|---|---|
| ZK1020-0101-0xxx | pre-assembled IP-Link cable, drag-chain suitable |
| ZK2000-2100-0xxx | M8, plug, straight, male, 3-pin – open end |
| ZK2000-2122-0xxx | M8, plug, straight, male, 3-pin – M8, socket, straight, female, 3-pin |
| ZK2020-3200-0xxx | M8, socket, straight, female, 4-pin – open end |
| ZK2020-3132-0xxx | M8, plug, straight, male, 4-pin – M8, socket, straight, female, 4-pin |
| ZS1020-0010 | IP-Link plug, 1 piece, plug for IP-Link system |
| ZS2000-2210 | Plug field assembly, Sensor, IP65/67, M8, straight, male, 3-pin, A-coded, 0.14...0.5 mm$^2$, Ø 4...5.5 mm |
| ZS2000-1213 | Plug field assembly, Sensor, IP67, M8, straight, male, 3-pin, A-coded, 0.14...0.34 mm$^2$, Ø 3.5...5 mm |
| ZS2000-2310 | Plug field assembly, Sensor and Power, IP65/67, M8, straight, male, 4-pin, A-coded, 0.14...0.5 mm$^2$, Ø 4...5.5 mm |
| ZS2000-2320 | Socket field assembly, Sensor and Power, IP65/67, M8, straight, female, 4-pin, A-coded, 0.14...0.5 mm$^2$, Ø 4...5.5 mm |
| ZS5300-0011 | Mounting plate for 14 small or 7 wide EtherCAT-/ EtherCAT P box modules, stainless steel, 500 mm x 130 mm x 1.5 mm |
| ZS5000-0014 | blanking plug, plastic (IP65/67), for M8 socket, green, packaging unit = 50 pieces |
| ZS5000-0010 | blanking plug, plastic (IP67), for M8 socket, packaging unit = 50 pieces |

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| ZB8801-0001 | torque cable key, M8/wrench size 9, for ZB8801-0000 |