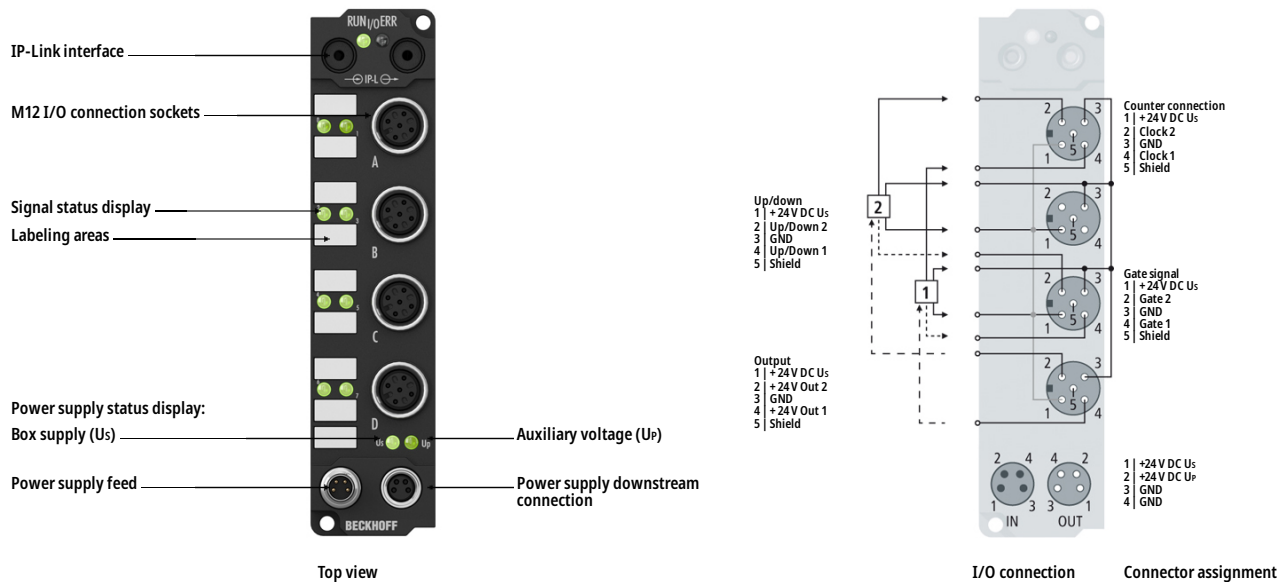
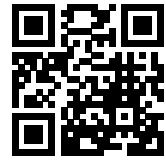


IE1502 | Extension Box, 2-channel digital input, counter, 24 V DC, 100 kHz, M12



i Product status: Regular delivery

The counter module has two fast counters running at up to 100 kHz. It counts binary pulses and transmits the counter state to the higher-level automation unit. The up/down input allows the counters to be switched between upwards and downwards counting (in 32 bits). The gate signals (gate inputs) allow the counters to be triggered: Depending on the level at the gate input, the counting function is halted or enabled. The outputs can be switched according to the counter state, and can therefore be used as fast control signals for field devices. From the controller it is possible to set the counter state, to start or halt the counter function, and to set the outputs. The signal state of the inputs and outputs is indicated by light emitting diodes.

Product information

Technical data

Technical data	IE1502
Number of inputs	2 counter inputs + 2 gate inputs + 2 up/down switches
Number of counters	2, each with a depth of 32 bits
Counting frequency	100 kHz (2 kHz for switching between up and down)
Signal connection	M12, screw type
Nominal input voltage	24 V DC (-15 %/+20 %)
"0" signal voltage	-3...+5 V (EN 61131-2, type 2)
"1" signal voltage	11...30 V (EN 61131-2, type 2)

Number of outputs	2 x 24 V DC, 0.5 A, individually short-circuit-proof
Sensor supply	from control voltage, max. 0.5 A, short-circuit proof in total
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	80 inputs/outputs: 2 x 32 bit data (2 x 8 bit control/status)
Current consumption from Us (without sensor current)	25 mA
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
ZK2000-6100-0xxx	M12, plug, straight, male, 4-pin, A-coded – open end
ZK2000-6162-0xxx	M12, plug, straight, male, 4-pin, A-coded – M12, socket, straight, female, 4-pin, A-coded
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
ZS2000-2610	Plug field assembly, Sensor, IP65/67, M12, straight, male, 4-pin, A-coded, 0.14...1.5 mm ² , Ø 4...8 mm
ZS2000-2710	Plug field assembly, Sensor, IP65/67, M12, straight, male, 5-pin, A-coded, 0.25...1.5 mm ² , Ø 4...8 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

ZS5000-0020	blanking plug, plastic (IP67), for M12 socket, packaging unit = 50 pieces
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0001	torque cable key, M8/wrench size 9, for ZB8801-0000
ZB8801-0002	torque cable key, M12/wrench size 13, for ZB8801-0000
