

EP6002-0002 | EtherCAT Box, 2-channel communication interface, serial, RS232/RS422/RS485, M12

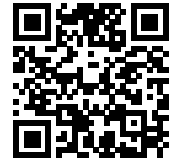
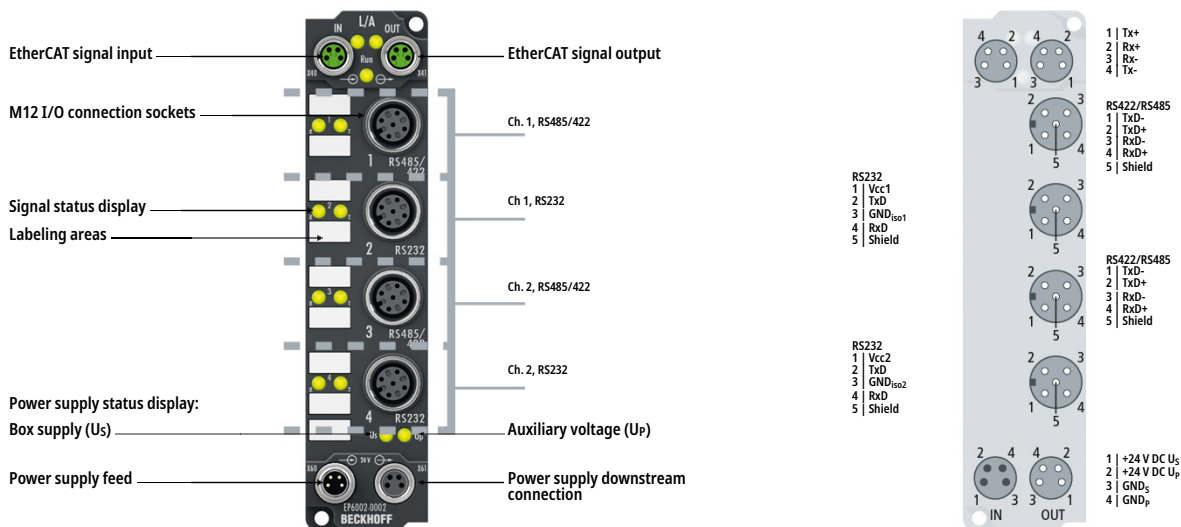


Image similar, may contain optional accessories



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i Product status: regular delivery

The EP6002-0002 serial interface module allows the connection of devices with an RS232 or RS422/RS485 interface. The module transmits the data in a fully transparent manner to the higher-level automation device. The data is transferred via the fieldbus using a simple handshake protocol. This does not have any effect on the protocol of the serial interface. The active serial communication channel functions independently of the higher-level bus system in full duplex mode at up to 115,200 baud, while a 864 byte receive buffer and a 128 byte send buffer are available.

The connector assignment depends on the interface. For each channel, RS232 or RS422/RS485 can be selected.

In conjunction with the TwinCAT Virtual Serial COM Driver (see TwinCAT Supplements – Communication) the EP6002-0002 can be used as a normal Windows COM interface.

Product information

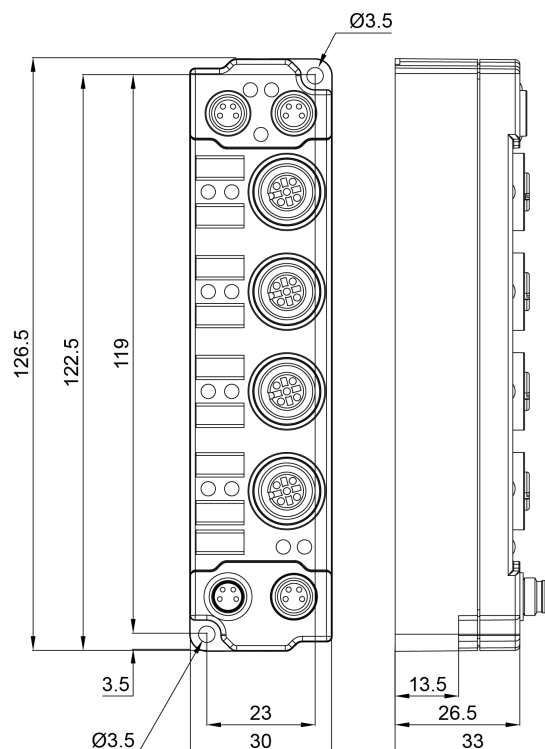
Technical data

Technical data	EP6002-0002
Protocol	EtherCAT
Bus interface	2 x M8 socket, 4-pin, a-coded, shielded
Data transfer channels	2

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Interfaces	individually selectable from RS232, RS485, RS422
Transmission rate	300...115,200 baud; 9600 baud (8 bit, no parity, 1 stop bit) is preset
Communication	TxD and RxD, full duplex
Bit distortion	< 3%
Cable length	RS232: max. 15 m; RS422/RS485: approx. 1000 m
Data buffer	864 bytes receive buffer, 128 bytes transmit buffer
Sensor supply	+5 V DC, 20 mA each, electrically isolated
Connection technology	M12 socket, 5-pin, a-coded
Number of channels	2 (1/1), TxD and RxD, full duplex
Number of digital inputs/outputs	–
Nominal voltage	24 V DC (-15%/+20%)
Distributed clocks	–
Current consumption from Us	typ. 130 mA + sensor supply
Power supply connection	feed: 1 x M8 male socket, 4-pin, a-coded; downstream connection: 1 x M8 female socket, 4-pin, a-coded
Electrical isolation	500 V
Special features	easy integration of serial end devices
Weight	approx. 165 g
Operating temperature	-25...+60°C
Storage temperature	-40...+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, CCC, UL, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T135°C Dc IECEx: Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc cFMus: Class I, II, III, Division 2, Groups A, B, C, D, F and G Class I, Zone 2, AEx ec IIC T4 Gc Zone 22, AEx tc IIIC T135°C Dc

Housing data	8 x M8, 4 x M12
Dimensions (W x H x D)	30 mm x 126 mm x 26.5 mm
Material	PA6 (polyamide)

Housing data	8 x M8, 4 x M12
Installation	2 fixing holes 3.5 mm diameter for M3



Material Compliance

Material compliance	EP6002-0002
CAS No.	7439-92-1, 115-86-6
REACH SVHC	Lead, Triphenyl phosphate
REACH Annex XVII	compliant
REACH Annex XIV	compliant
SCIP No.	SCIP submission in progress
POP	compliant
RoHS	compliant with exemption
RoHS exemption	6c: Copper alloy with a mass fraction of up to 4% lead, 7c-I: Lead-containing electrical and electronic components in glass and ceramic materials, excluding dielectric ceramics in capacitors
China-RoHS	www.beckhoff.com/china-rohs-io
CA Prop65	www.beckhoff.com/prop65
Disclaimer	This statement and the information contained above are, to the best of our knowledge and belief, accurate, based on the information we have received from our suppliers. This information is in line with the current standard of technology and our suppliers' technical documentation. The absence of the substances is not verified by Beckhoff Automation by means of analytical tests. When addressed to our customers any information contained in this document is subject to the terms and conditions expressed in the governing customer agreement. Our general terms and conditions apply.