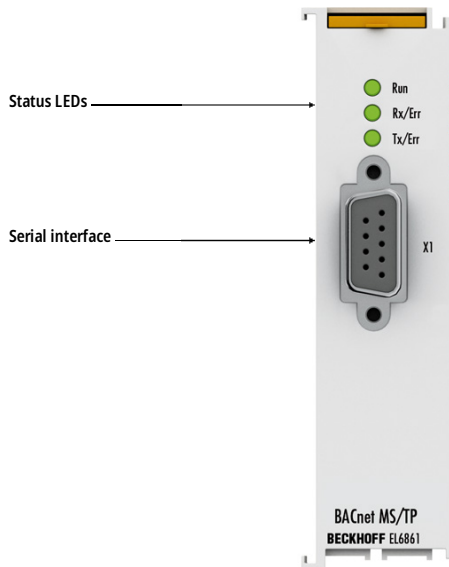
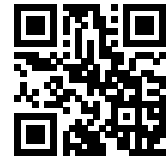


# EL6861 | EtherCAT Terminal, 1-channel communication interface, BACnet-MS/TP, RS485, D-sub



## **i** Product status: Regular delivery

The EL6861 serial interface enables the connection of BACnet MS/TP devices (Master-Slave/Token-Passing) via an RS485 interface. Up to 32 MS/TP devices can be connected (up to 64 if ultra-low power transceivers are used). The EL6861 interface can only be used in combination with TwinCAT, then at least a CX9020 is required. When using TwinCAT 3, at least a CX81xx since the BACnet MS/TP driver integrated in TwinCAT implements the communication via the MS/TP protocol (BACnet Revision 12). The configuration is also done in TwinCAT.

The RS485 interface guarantees high immunity to interference through electrically isolated signal transmission. The EL6861 provides 1 x 5 V DC at 20 mA (electrically isolated, short-circuit proof) from the E-bus supply for use with the bias resistors (network bias).

The following devices can be typically connected to the EL6861:

- frequency converters
- pumps
- drives (especially valve drives)
- room control units
- compact controllers (for example volume flow controllers)

## Product information

### Technical data

Technical data

EL6861

Technology	D-sub, 9-pin
Devices	32, up to 64 if ultra-low power transceivers are used
Data transfer channels	1
Data transfer rates	9600, 19,200, 38,400, 57,600, 76,800 and 115,200 baud (default: 9600 baud)
Interfaces	1 x RS485
Termination resistor	externally via ZB3100 or ZS1031-3000 connector
Bias resistor (network bias)	externally via ZB3100 or ZS1031-3000 connector
Cable length	max. 500 m twisted pair
Providing external supply	1 x max. 5 V/20 mA, out of E-bus supply, short-circuit proof
Power supply	via the E-bus
Distributed clocks	–
Electrical isolation	500 V (E-bus/signal voltage)
Bit width in the process image	128 x 8 bit input, 128 x 8 bit output, 16 bit control, 16 bit status
Configuration	configuration via controller, TwinCAT
Current consumption power contacts	–
Current consumption E-bus	typ. 170 mA
Special features	can only be used with TwinCAT
Weight	approx. 55 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Relative humidity	95 %, no condensation
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.	IP20/variable
Approvals/markings	CE, UL

<b>Housing data</b>	<b>EL-24</b>
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	24 mm x 100 mm x 52 mm
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock
Side by side mounting by means of	double slot and key connection
Marking	–
Wiring	specific push-in connection