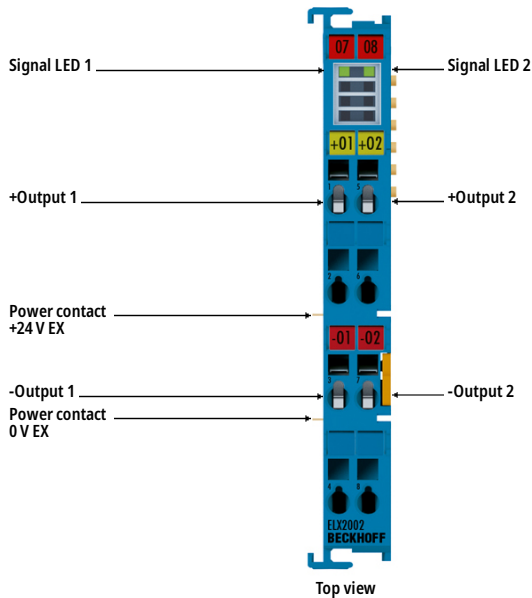
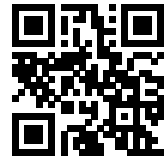


# ELX2002 | EtherCAT Terminal, 2-channel digital output, 24 V DC, 45 mA, Ex i



**i Product status:** Regular delivery

The ELX2002 digital output terminal enables the direct connection of intrinsically safe actuators located in hazardous areas classified Zone 0/20 or 1/21. The ELX2002 supplies an output voltage of 24 V DC and a maximum output current of 45 mA per channel, total current is 80 mA. The signal state of each channel is indicated by a light emitting diode.

EtherCAT terminals of the ELX series must always be operated in conjunction with the ELX9560 power supply terminal. This terminal generates an electrically isolated output voltage (24 V EX) from the input voltage (24 V DC) for supplying the subsequent ELX terminals. If a new power supply is required, the combination of an ELX9410 and an ELX9560 can be used so that further ELX terminals can be added. The ELX terminal string must be terminated with one ELX9012 or two ELX9410.

## Product information

### Technical data

Technical data	ELX2002
Technology	current output
Connection technology	2-wire
Number of outputs	2
Rated load voltage	24 V DC, $R_i = 254 \Omega$
Load type	ohmic, inductive, capacitive
Supply voltage electronics	24 V DC (via power contacts), ELX9560 power supply
Max. output current	45 mA per channel, $\Sigma 80 \text{ mA}$

Current consumption power contacts	typ. 10 mA + load
Current consumption E-bus	typ. 45 mA
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/see documentation
Approvals/markings	CE, UL, ATEX, IECEx, cFMus, CCC
Ex marking	<p>ATEX:  II 3(1)G Ex ec [ia Ga] IIC T4 Gc  II (1)D [Ex ia Da] IIIC  I (M1) [Ex ia Ma] I</p> <p>IECEx:  Ex ec [ia Ga] IIC T4 Gc  [Ex ia Da] IIIC  [Ex ia Ma] I</p> <p>cFMus:  AIS Class I, II, III, Division 1, Groups A thru G  Class I, Division 2, Groups A, B, C, D  Class I, Zone 2, AEx ec [ia Ga] IIC T4 Gc  [AEx ia Da] IIIC T4</p>

Housing data	ELX-12-8pin
Design form	compact terminal housing with signal LEDs
Material	polycarbonate, blue
Dimensions (W x H x D)	12 mm x 100 mm x 68 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	labeling of the BZxxx series
Wiring	solid conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver
Connection cross-section	s*: 0.08...2.5 mm <sup>2</sup> , st*: 0.08...2.5 mm <sup>2</sup> , f*: 0.14...1.5 mm <sup>2</sup>
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16
Stripping length	8...9 mm
Power contacts	2 blade/spring contacts

\*s: solid wire; st: stranded wire; f: with ferrule