



## ELX4181 | 1-channel analog output terminal 0/4...20 mA, single-ended, HART, 16 bit, Ex i



The ELX4181 analog output terminal is used for the direct control of intrinsically safe field devices located in hazardous areas classified Zone 0/20 or 1/21. It can optionally function as a 0...20 mA or 4...20 mA interface and enables communication with the help of the HART protocol (Highway Addressable Remote Transducer). The HART protocol enables two-way communication through digital data transfer via the analog interface. The ELX4181 is supplied via the power contacts of the ELX9560 power feed terminal. The EtherCAT Terminal indicates the signal state by means of light emitting diodes. Error LEDs signal overload and wire breakage, and additional LEDs provide information about the state of the HART communication and indicate any communication errors.

Technical data	ELX4181
Technology	intrinsically safe actuators with HART support (Rev. 7)
Signal current	0/4...20 mA
Number of outputs	1 (single-ended)
Connection method	2-wire
Load	< 500 Ω
Resolution	16 bit (incl. sign)
Conversion time	typ. 1 ms
Supply voltage electronics	24 V DC (via power contacts), ELX9560 power supply
Current consumption power contacts	typ. 10 mA + load
Current consumption E-bus	typ. 85 mA
Distributed clocks	yes
Special features	parameterisable watchdog, activatable user calibration
Weight	approx. 60 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. class/installation pos.	IP 20/see documentation
Approvals	CE, Ex, IECEx

further Ex components	
ELXxxxx	EtherCAT Terminals with intrinsic safe in- and output
ELXxxxx-0090	EtherCAT Terminals with intrinsic safe in- and output and TwinSAFE SC
CPXxxxx	Multi-touch Panel PCs and multi-touch Control Panels for use in hazardous areas, Zone 2/22