



## ELX1052 | 2-channel digital input terminal NAMUR, Ex i



The ELX1052 digital input terminal allows the direct connection of intrinsically safe field devices located in hazardous areas classified Zone 0/20 or 1/21 and acquires their signals in compliance with IEC 60947-5-6. The sensors are supplied with a voltage of 8.2 V and return a diagnosable current signal. In this way wire breakage or short circuit can be detected in addition to the switching state. The LEDs represent the signal states or any error states.

Technical data	ELX1052
Technology	DC switching amplifier
Specification	IEC 60947-5-6
Number of inputs	2
Connection method	2-wire
Open circuit voltage	typ. 8.2 V DC
"0" signal current	≤ 1.2 mA
"1" signal current	≥ 2.1 mA
Switching hysteresis	200 µA
Short circuit current	typ. 8.2 mA
Fault detection	I ≤ 200 µA (cable break), I ≥ 6.3 mA (short circuit)
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. 50 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. class/installation pos.	IP 20/see documentation
Approvals	CE, Ex, IECEx

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