



Top view

i ELX1054 | 4-channel digital input terminal NAMUR, Ex i



The ELX1054 digital input terminal acquires signals from NAMUR field devices according to EN 60947-5-6. The sensors are supplied with a voltage of 8.2 V and return a diagnosable current signal. In this way, a wire breakage or short-circuit can be detected in addition to the switching state. The LEDs indicate signal or any error states, channel by channel.

Using a DIP switch on the side, it is possible to select channel by channel whether a positive switching or negative switching sensor is to be connected. Thus, no changes to the PLC are required for the connection of both NAMUR break contacts or make contacts.

Technical data	ELX1054
Technology	DC switching amplifier
Specification	IEC 60947-5-6
Number of inputs	4
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. 7 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. 15 mA + load
Current consumption E-bus	typ. 65 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

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



Product announcement

estimated market release 4th quarter 2018