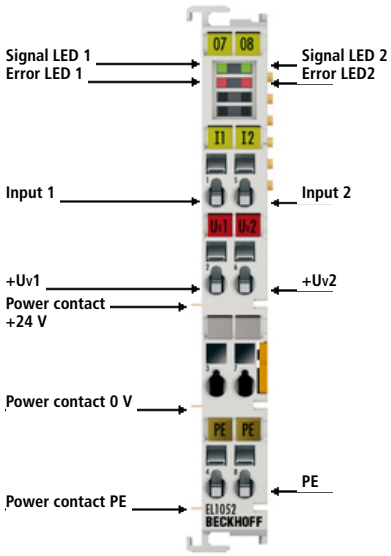
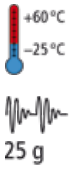


Top view Contact assembly



EL1052 | 2-channel digital input terminal NAMUR

The EL1052 digital input terminal acquires signals from NAMUR field devices according to IEC 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.

Technical data	EL1052 | ES1052
Technology	NAMUR
Specification	NAMUR DC switching amplifier (IEC 60947-5-6)
Signal type	binary, current input for NAMUR sensors
Number of inputs	2
Connection technology	2-wire
Open circuit voltage	typ. 8.2 V DC
"0" signal current	≤ 1.2 mA
"1" signal current	≥ 2.1 mA
Switching hysteresis	typ. 350 µA
Short circuit current	typ. 7.8 mA
Fault detection	I ≤ 200 µA (cable break), I ≥ 7.0 mA (short circuit)
Max. switching frequency	5 kHz (duty factor 50 %)
Internal resistance	according to I/V curve IEC 60947-5-6
Distributed clocks	–
Supply voltage electronics	24 V DC (via power contacts)
Current consumption E-bus	typ. 40 mA
Current consumption power contacts	typ. 20 mA + load
Electrical isolation	500 V (E-bus/field potential)
Special features	integrated reverse polarity protection
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/variable
Pluggable wiring	for all ESxxxx terminals
Approvals	CE, Ex, IECEx

Related products	
EL3182	2-channel analog input terminal 4…20 mA, single-ended, 16 bit, HART
ELX1052	2-channel digital input terminal NAMUR, Ex i
ELX3181	1-channel analog input terminal 4…20 mA, single-ended, 16 bit, HART, Ex i