Run LED

Err LED CH1...8

+R1 / -R1
+R2 / -R2
+R3 / -R3
Power contact +24 V
+R4 / -R4
+R5 / -R5
Power contact 0 V
+R6 / -R6
+R7 / -R7
+R8 / -R8

Top view   **Contact assembly**

+R1 -R1
+R2 -R2
+R3 -R3
+R4 -R4
+R5 -R5
+R6 -R6
+R7 -R7
+R8 -R8

+60 °C
−25 °C

25 g
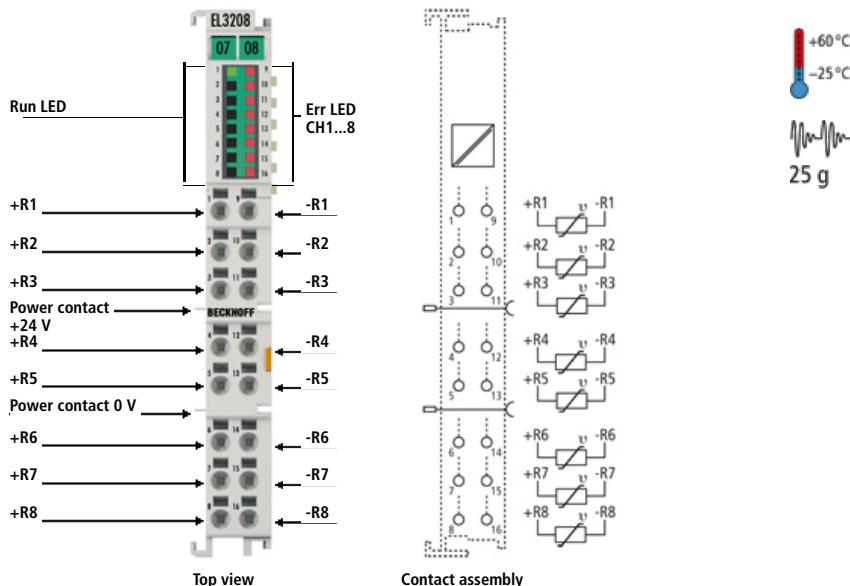
EL3208 | 8-channel input terminal PT100 (RTD)

The EL3208 analog input terminal allows eight resistance sensors to be connected directly. The EtherCAT Terminal circuit can operate sensors using the 2-wire technique in a compact 12 mm housing. A microprocessor handles linearisation across the whole temperature range, which is freely selectable. The EtherCAT Terminal's standard settings are: resolution 0.1 °C. Sensor malfunctions such as broken wires are indicated by error LEDs.

Technical data	EL3208
Number of inputs	8
Power supply	via the E-bus
Technology	2-wire
Distributed clocks	–
Input filter limit frequency	typ. 1 kHz
Sensor types	PT100, PT200, PT500, PT1000, Ni100, Ni120, Ni1000 resistance measurement (e.g. potentiometer, 10 Ω…1.2/4 kΩ), KTY sensors
Connection method	2-wire
Conversion time	approx. 170 ms default setting, 3…1600 ms configurable
Measuring current	< 0.5 mA (load-dependent)
Measuring range	-200…+850 °C (PT sensors); -60…+250 °C (Ni sensors)
Temperature range	-200…+850 °C (PT sensors); -60…+250 °C (Ni sensors)
Resolution	0.1 °C per digit
Measuring error	< ±0.5 °C for PT sensors
Electrical isolation	500 V (E-bus/signal voltage)
Current consumption power contacts	–
Current consumption E-bus	typ. 140 mA
Special features	integrated digital filter, limit value monitoring
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
Approvals	CE, UL