EJ3214 | 4-channel input PT100 (RTD)

The EJ3214 analog input allows four resistance sensors to be connected directly. The EtherCAT plug-in module's circuit can operate sensors using the 2- or 3-wire technique. A microprocessor handles linearisation across the whole temperature range, which is freely selectable. The EJ3214's standard settings are: resolution 0.1 °C. Sensor malfunctions such as broken wires are indicated by error LEDs.

Technical data	EJ3214
Technology	2-/3-wire
Sensor types	PT100, PT200, PT500, PT1000, Ni100, Ni120, Ni1000 resistance measurement (e.g. potentiometer, 10 Ω…1.2/4 kΩ), KTY sensors (types see documentation)
Number of inputs	4
Measuring 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, 4 x 3-wire connection
Input filter limit frequency	typ. 1 kHz
Conversion time	approx. 170 ms default setting
Distributed clocks	–
Current consumption E-bus	typ. 160 mA
Electrical isolation	500 V (E-bus/field potential)
Special features	integrated digital filter, limit value monitoring, variable connection technology
Dimensions (W x H x D)	approx. 12 mm x 66 mm x 55 mm
Operating/storage temperature	0…+55 °C/-25…+85 °C
Relative humidity	95 %, no condensation
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Approvals	CE