

Temperature Measuring Amplifiers with Ultra-High Channel Density

Versatile temperature measuring amplifiers for use in SIL2 circuits and in Zone 2

Mülheim, 27 October 2016 – Turck has added the IMX12-TI temperature measuring amplifier to its IMX interface technology series. With a width of only 12.5 millimeters and the highest channel density on the market, the devices save valuable space in the switch cabinet. Besides a single-channel variant, which directly signals overshoots of the temperature limit value to the control system via an additional relay changeover contact, Turck is offering two two-channel versions of the IMX12-TI: One for resistance thermometers or thermocouples with a 2- or 3-wire connection, or another for 4-wire resistance thermometers.

With operating temperatures up to 70 °C and operating voltages of 10 to 30 VDC, the IMX12-TI offers particularly versatile use, such as in applications with an onboard power supply, emergency power supply, or other battery-fed applications. All standard thermocouples can be connected as well as resistance sensors. Like all devices of the IMX12 series, the temperature measuring amplifiers are approved for all relevant markets, meet the requirements of SIL level 2 and are suitable for use directly in Zone 2.

The optionally available power rail system simplifies device power supply by feeding the voltage via a top-hat rail connection. For highly available applications it can be designed redundantly and with group fault messages.

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Turck2316.jpg:

In terms of channel density, the IMX12-TI devices are setting new benchmarks and are some of the most precise devices in the market

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