

## Components and accessories

### Transmitter

#### Transmitter LKM 211



DIN rail transmitter LKM 211 for thermocouples with output signal 4...20mA

The LKM 211 is an analog transmitter for mounting on the standard rail. It can be designed for various thermocouples according to DIN EN 60584 and DIN EN 43710. It converts the temperature-dependent thermoelectric voltage of the sensors into a standard signal of 4...20mA. The temperature compensation takes place in the transmitter itself. The transmitter is delivered from the factory calibrated to customer specifications. Depending on the measuring range and thermocouple type, the adjustment is performed in such a way that the occurring temperature errors are minimized. A voltage-linear adjustment for further processing of the measured values in the PC or PLC can also be carried out. This should be specified when ordering. A span and zero controller enables subsequent fine adjustment.

\* depends on thermocouple

#### Protection classification

IP 20 according DIN 60529

#### Input

Thermocouples K, J (L), T (U), N, E  
S and B with higher fault

#### Output

4...20mA current loop

#### Range

> 200 °C\*

#### Zero point

-200 °C ... +600 °C\*

#### Loop voltage

10...35VDC, reverse protection

#### Sensor fracture

>20 mA

#### Shorted Sensor

room ambient temperature

#### Permissible ripple

< 10 %

#### Reaction time

< 0.1s

#### Vibration

5g/10-200Hz

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**Linearity error**

<0.1% FS\*

**Error of compensation**

<±0.5°C

**TCR**

< 100 ppm/°C

**Operating temperature range**

-25 °C ... +85 °C

**Terminal type**

screw terminal

**Clamping range**

0.2...2.5mm<sup>2</sup>

**Humidity**

< 95%

**EMC emission**

EN 61000-6-3:2001

**EMC interference rejection ratio**

EN 61000-6-3:2001

**Mounting**

35mm DIN rail

**Case**

EMG25-LG

**Case material**

Polycarbonat

**Case dimension (HxWxD)**

75 x 25 x 53 mm

**Weight**

approx. 60g