LKM electronic GmbH
Elgersburger Str. 1
D - 98716 Geraberg
Germany
Phone: +49 (3677) 4677 0
Fax.: +49 (3677) 4677 52

Web: www.LKMelectronic.de
Mail: info@LKMelectronic.de

Transducer LKM 261, Thermocouples, rail assembly, 4..20mA

Functional Description

The device type 261 is a digital programmable measuring transducer intended for being mounted on a standard rail.
It can be programmed for different thermocouples according to DIN EN 60584-3. It converts the temperature-dependent thermo-electric voltage of the sensors into a standard signal ranging from 4 to 20mA. Here, the temperature compensation is effected within the measuring transducer itself. The measuring transducer can be programmed by means of the universal interface type LKM S1 developed by us. Another option is to order and purchase it pre-programmed. An adjusting controller allows minor display corrections on the spot.

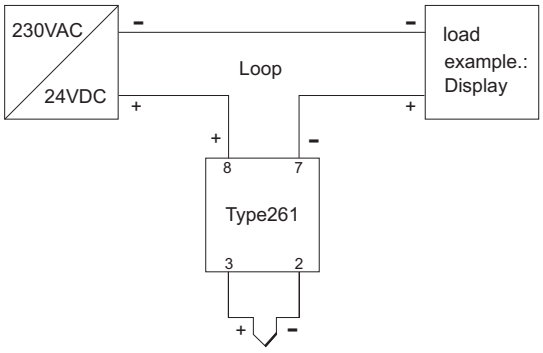
Technical Data

Input:	thermocouples K, J, L, T, U, E, N, S, B, R, C in the respective range of definition
Zero:	-200... 600°C*
Range:	>50K
Linearity error:	< 0.3K*
Error of reference junction:	<+/- 0.5°C
Loop voltage:	10..35V DC, reverse polarity protected
Output:	4..20mA current loop
Sensor break:	>20mA
Sensor Short circuit:	current value for room temperature
Reaction time:	<0.5s
TC:	<100ppm/°C
Operating temp. range:	-40..85°C
Moisture:	<95%
Mounting:	35mm DIN-rail
Type of terminals:	screw terminals
Clamping range:	0.2..2.5mm²
Housing:	Polycarbonate 75x25x53mm
Weight:	approx. 60g
Vibration:	5g/10..200Hz

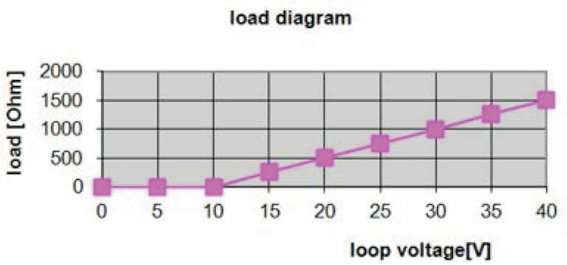
EMC
Emission and Noise immunity: EN 61326-1:2006
EN 61326-2-3:2006

* depending on thermocouple

Schematic Diagram



Load resistance



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