

LKM235 U/I-CONVERTER FOR STANDARD SIGNALS

Electrically isolated analogue measuring transducer for input voltage signals destined for mounting on 35mm support rail with 4...20mA-output signal

The device type LKM 235 is an analogue measuring transducer for voltage signals. It converts the applied input voltage into a standard signal of 4...20 mA and is provided with a galvanic isolation between input and output. The measuring transducer will be delivered ex works matched with customer specifications. Normally, an input signal of 0...10V is expected. However, other input voltage values can be provided on request. Furthermore, a range and null point adjuster allows subsequent fine calibration. Further technical parameters can be found in the application notes for the LKM 235 device. Power supply can be realized from a voltage source.



TECHNICAL DATA

Input:	standard voltage 0..10V	other input voltage values possible
Linearity error:	<0.2% FS	
Loop voltage:	10..35VDC , secured against reverse polarity	When power supply is effected from a voltage, the values of the auxiliary voltage are valid.
Auxiliary voltage:	24VDC \pm 10%	secured against reverse polarity
Max. power consumption:	40mA	
Output:	4..20mA	current loop
Test voltage:	1kV	
Output voltage exceeded:	>20mA	
Input short circuit:	< 4mA	
Response time:	<0.1s	
Temperature coefficient:	<100ppm/°C	
Operating temperature range:	-25..85°C	
Moisture:	<95%	
Mounting:	35mm rail	
Material:	polycarbonate	
Dimensions:	75x25x53mm	h x w x d
Type of terminals:	screw terminals	
Clamping area:	0.2..2.5mm ²	
Weight:	appr. 60g	
Vibration:	5g/10..200Hz	
EMV:	EN 61326-1:2006 EN 61326-2-3:2006	emission and immunity

LKM236 I/U-CONVERTER FOR STANDARD SIGNALS

Electrically isolated analogue measuring transducer for input current signals destined for mounting on 35mm support rail with 0..10 V-output signal

The device type LKM 236 is an analogue measuring transducer for current signals. It converts the applied input current signal into a standard signal of 0..10V and is provided with a galvanic isolation between input and output.

The measuring transducer will be delivered ex works matched with customer specifications. Normally, an input signal of 0..10V is expected. However, other input voltage values can be provided on request. A range and null point adjuster allows subsequent fine calibration. Further technical parameters can be found in the application notes for the LKM 236 device. For the power supply of the current loop, a separate voltage source is necessary.



TECHNICAL DATA

Input:	current loop 4..20mA	other input current values possible
Load:	60 Ω	
Linearity error:	<0.2% FS	
Supply voltage:	24VDC ±10%	separate power supply necessary for current loop
Max. power consumption:	40mA	
Test voltage:	1kV	
Output:	0..10V	
Input >20mA:	>10V	
Input currentless:	0V	
Response time:	<0.1s	
Temperature coefficient:	<100ppm/°C	
Operating temperature range:	-25..85°C	
Moisture:	<95% rel. humidity	
Protection class:	IP20	
Mounting:	on 35mm rail	
Material:	polycarbonate	
Dimensions:	75x25x53mm	h x w x d
Type of terminals:	screw terminals	
Clamping area:	0.2..2.5mm ²	
Weight:	appr. 60g	
Vibration:	5g/10..200Hz	
EMV:	EN 61000-6-3:2001 EN 61000-6-2:2001	emission and immunity