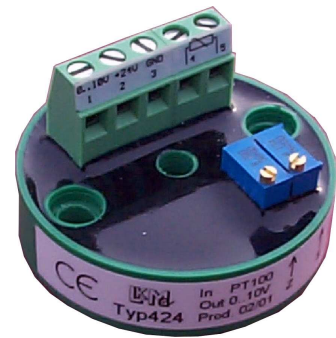


LKM424 FOR PT100/PT1000

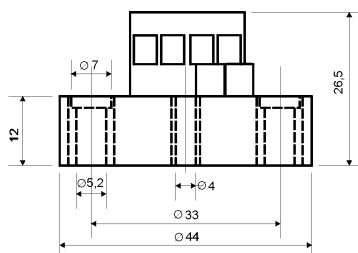
The LKM 424 is a very economical analog measuring transducer for PT100/1000 measurement resistances in accordance with DIN EN 60751 with slightly restricted accuracy. It is suitable for direct connection to evaluation units with voltage input such as PLC or AD converter cards in PCs. It converts the PT100/1000 signal into an voltage output signal of 0..10V that is linear with the temperature. Configurations for other resistance sensors are available on request. The LKM 424 measuring transducer is delivered with a calibration to customer requirements. Small corrections can be performed on site by means of a zero point potentiometer and a range potentiometer. The sensor is connected in a 2- or 3-wire connection. Further technical data and circuit examples can be found in the LKM 424 instructions for use.



TECHNICAL DATA

Input:	Pt100/Pt1000	2-/3-wire circuit
Measuring current:	approx. 1mA	at a range of 600°C, otherwise smaller (e.g. 0..100°C = 0.3%)
Zero:	-200..600°C	
Span:	50..850 K	
Linearity error:	<1% FS	
Supply voltage:	15..35V DC, 15..26 VAC	polarity – safe
Current consumption:	max. 10mA	
Output:	0..10V	
Min. load resistance:	10 kOhm	
Probe break:	>10V	
Short circuit:	=0V	
Reaction time:	<0.1s	
Temp. coefficient:	<100ppm/°C	
Operating temp. range:	-40..85°C	
Humidity:	<95%	
Mounting:	DIN B-head	
Dimensions:	Ø 44 x 26.5 mm	
Sealing compound	polyurethane, black	
Type of terminal:	screw connector	
Clamping range:	0.13..1.5mm ²	
Weight:	approx. 40g	
Vibration:	5g/10..200Hz	
EMC:	EN 61326-1:2006 EN 61326-2-3:2006	Emission and Noise immunity

Dimensions



Load Resistance

