

## LKM453 FOR PT100/PT1000 WITH 230V POWER SUPPLY

The LKM 453 is an analogue transducer for Pt100/Pt1000 sensors acc. DIN EN 60751. The temperature sensitive resistance will be transformed into an extreme precise, temperature linear current output of 4..20mA. For models with other resistance sensors please ask. The LKM 453 has been tuned ex works according to the customized requires. Further fine-tuning can be arranged by span and zero controller. If the LKM 453 operated in 3-wire connection the resistance of the leads does not affect the results measured, if the input leads are of equal length and are made of the same conducting material. You can use the supply unit independent of the transducer or it can active supplying the transducer.



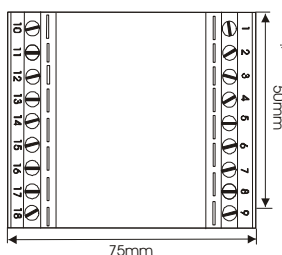
### TECHNICAL DATA

#### Measuring transducer:

Input:	Pt100/Pt1000	2-/3- wire circuit
Measuring current:	appr. 0,8 mA	Depended of sensor resistance
Zero:	-200..600°C	
Span:	20..850 K	
Linearity error:	<0,1% FS	
Loop voltage:	10..35V DC	polarity - safe
Output:	4..20mA	current loop
Probe break:	>20mA	
Short circuit;	<4mA	
Reaction time:	<0.1s	
Operating temp. range	0..60°C	
Temp. Coefficient :	<100ppm	

#### Power supply unit:

Input voltage:	230VAC	Version 115 VAC is possible
Frequency:	50..60Hz	
Fuse:	100mA fast-blow	externally
Output voltage:	24VDC	
Nominal current:	50mA	
Type of terminal:	screw clamps	
Clamping range:	0.2..2.5mm <sup>2</sup>	
Protection class:	IP20	
Case:	Unbreakable polyamide	
Mounting:	EN-rails	35mm
Weight:	appr. 100g	
EMC:	EN 61000-6-3:2001 EN 61000-6-2:2001	Emission and Noise immunity



#### Load resistance

