

- *Knob setting on dual °C and °F scale*
- *Models for Pt100 and J thermocouples*
- *Selectable proportional or on/off control action*
- *115/230 Vac versions with relay output*

LB SERIES

The analogue controllers of the **LB** series have been specifically designed to guarantee simple and immediate use, with optimal performances in all temperature control applications.

The setting of the operating point is obtained by means of a knob on the scale graduated from 0 to 100, 200, 250, 300, 500 °C, according to the model with indications of the values also in °F. Different versions are available with input for Pt100 resistance temperature detectors and for J type Iron-Constantan thermocouples.

The control action can be set as proportional or on/off by a jumper on the connection; the output is with a changeover relay and the power supply is 115/230 Vac.

The dimensions, in the standard 48x48 mm format, are extremely compact and the mounting can be on panel using the fixing bracket supplied, or inside cabinet on a DIN rail socket.



TECHNICAL DATA

Power supply: 115/230 Vac $\pm 15\%$, preconfigured to the higher value with internal connection

Consumption: 5 VA max.

Sensor input: J type Iron-Constantan thermocouples, or Pt100 Ω /0°C RTDs, sensor breaking protection with output deactivation

Measurement scale: refer to table 1

Precision: thermocouple measurement $\pm 1.2\%$ f.s.
RTD measurement $\pm 1\%$ f.s.
temperature drift 0.1% f.s. / °C of ambient temperature setting ± 2.5 f.s.

Control action: maximum action, proportional or on/off configuration

Proportional band: 5% f.s.

Cycle time: 18 sec.

On/off hysteresis: 1% f.s.

Output type: relay SPDT 250 Vac, 5 A

Setting: knob on graduated °C/°F scale

Indicators: red active OUTPUT LED

Connection: octal socket

Electrical protection: class 1

Mechanical protection: IP54 - front panel and housing
IP00 - contacts


Housing material: ABS

Weight: 250 g max.

Operating temperature: -10 ... +55°C

Storage temperature: -20 ... +65°C

Reference standard: EN 61010-1

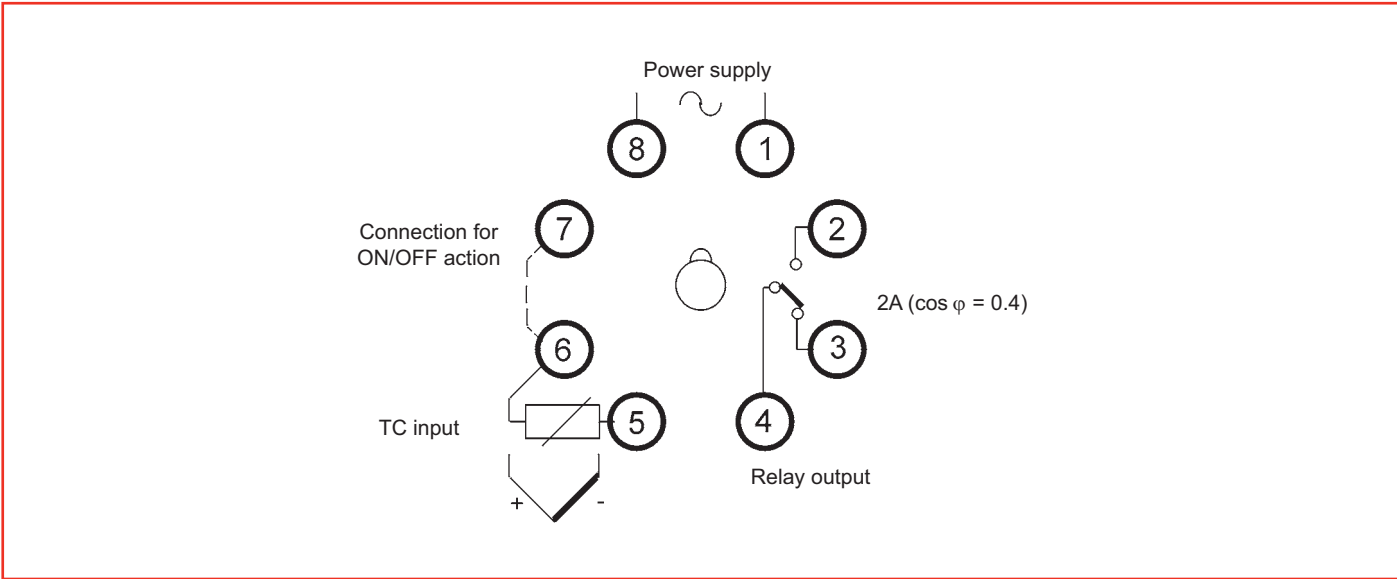
Certifications: 

TABLES

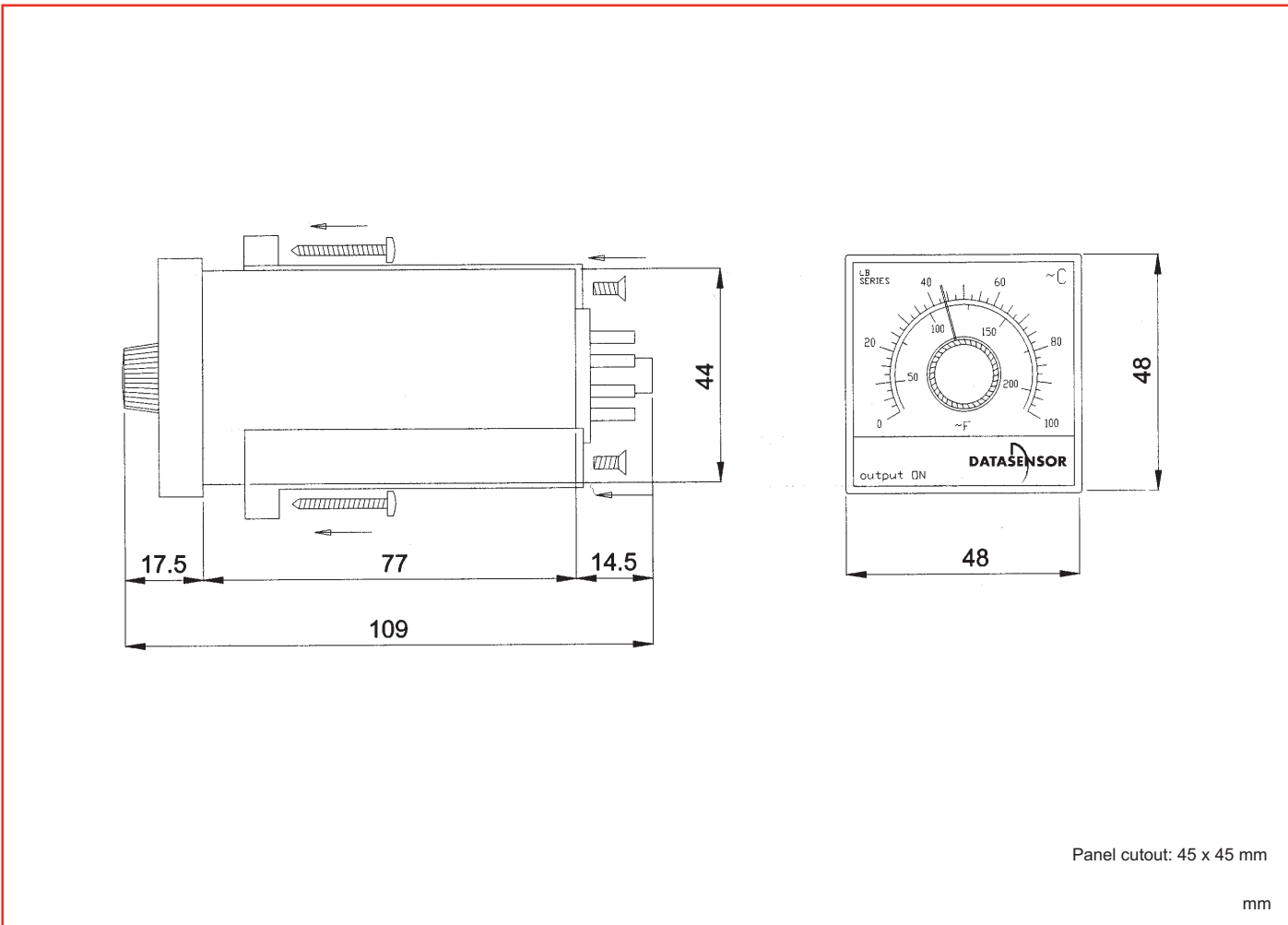
<i>Model</i>	<i>°C scale</i>	<i>°F scale</i>
LB-x-x-10	0 ... 100	32 ... 212
LB-x-x-20	0 ... 200	32 ... 392
LB-x-x-25	0 ... 250	32 ... 482
LB-x-x-30	0 ... 300	32 ... 572
LB-x-x-50	0 ... 500	32 ... 932

Table 1: °C/°F SCALE

CONNECTIONS



DIMENSIONS





MODELS

MODEL	POWER SUPPLY	SCALE	INPUT	CODE N°
LB-10-10-TC	115/230 Vac	0 ... 100 °C	TC-J	972061100
LB-10-20-TC	115/230 Vac	0 ... 200 °C	TC-J	972061110
LB-10-25-TC	115/230 Vac	0 ... 250 °C	TC-J	972061120
LB-10-30-TC	115/230 Vac	0 ... 300 °C	TC-J	972061130
LB-10-50-TC	115/230 Vca	0 ... 500 °C	TC-J	972061140
LB-10-10-TR	115/230 Vac	0 ... 100 °C	Pt100	972061300
LB-10-20-TR	115/230 Vac	0 ... 200 °C	Pt100	972061310
LB-10-25-TR	115/230 Vac	0 ... 250 °C	Pt100	972061320
LB-10-30-TR	115/230 Vac	0 ... 300 °C	Pt100	972061330
LB-10-50-TR	115/230 Vac	0 ... 500 °C	Pt100	972061340

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