

- *Knob setting on dual °C and °F scale*
- *Models for Pt100 and J thermocouples*
- *Selectable proportional or on/off control action*
- *24/48 and 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 24/48 Vac or 115/230 Vac according to the version.

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

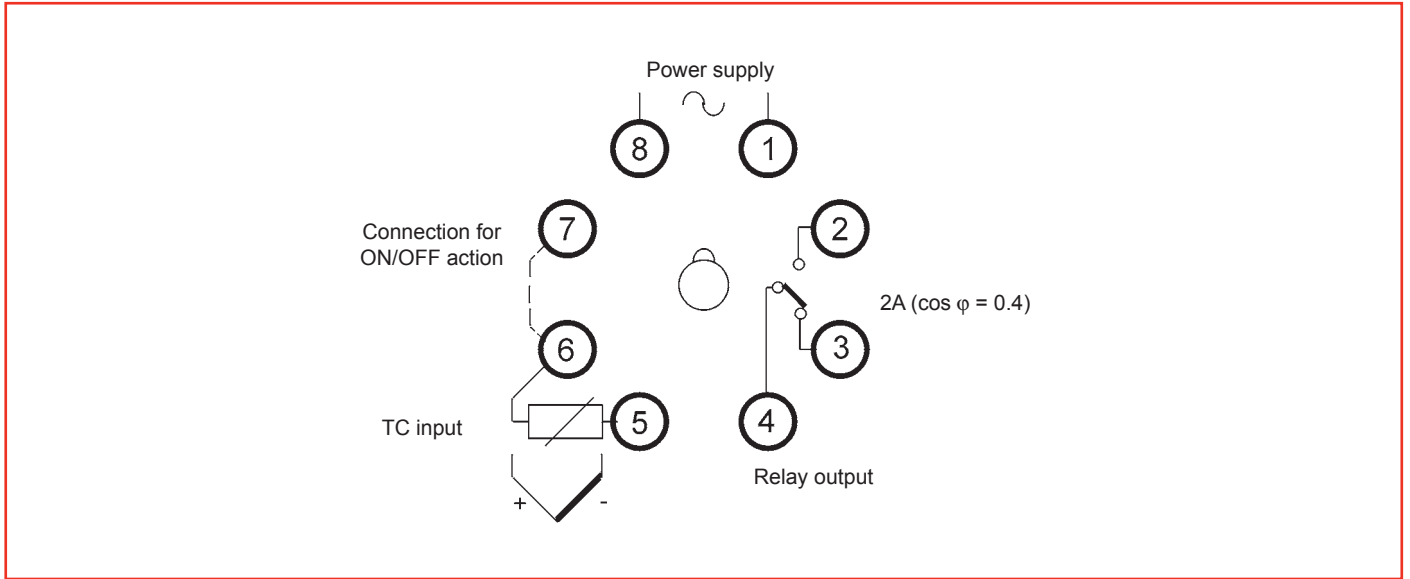
Power supply:	24/48 Vac $\pm 15\%$, version, 115/230 Vac $\pm 15\%$ version, preconfigured to the higher value with internal connection
Consumption:	5 VA max.
Sensor input:	J type Iron-Constantan thermocouples, or Pt100 $\Omega/0^{\circ}\text{C}$ RTDs, sensor breaking protection with output deactivation
Measurement scale:	<i>refer to table 1</i>
Precision:	thermocouple measurement $\pm 1.2\%$ f.s. RTD measurement $\pm 1\%$ f.s. temperature drift 0.1% f.s. / $^{\circ}\text{C}$ 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 $^{\circ}\text{C}/^{\circ}\text{F}$ 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 ... $+55^{\circ}\text{C}$
Storage temperature:	-20 ... $+65^{\circ}\text{C}$
Reference standard:	EN 61010-1
Certifications:	CE

TABLES

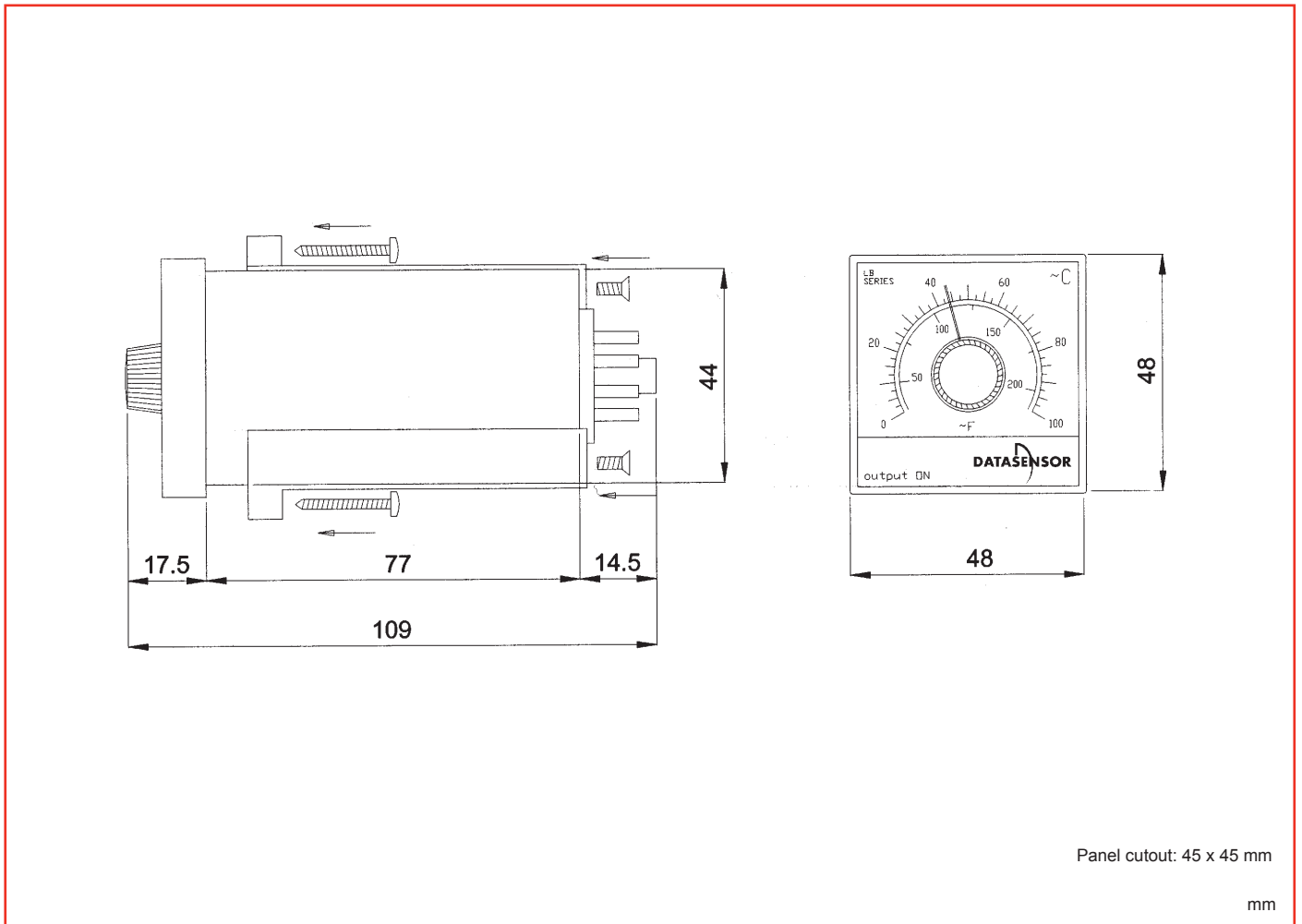
Model	$^{\circ}\text{C}$ scale	$^{\circ}\text{F}$ scale
LB-x-x-10	0 ... 100	32 ... 212
LB-x-x-20	0 ... 200	32 ... 392
LB-x-x-25	0 ... 250	32 ... 482
LB-x-x-30	0 ... 300	32 ... 572
LB-x-x-50	0 ... 500	32 ... 932

Table 1: $^{\circ}\text{C}/^{\circ}\text{F}$ SCALE

CONNECTIONS



DIMENSIONS



MODELS

MODEL	POWER SUPPLY	SCALE	INPUT	CODE N°
LB-00-10-TC	24/48 Vac	0 ... 100 °C	TC-J	972061000
LB-00-20-TC	24/48 Vac	0 ... 200 °C	TC-J	972061010
LB-00-25-TC	24/48 Vac	0 ... 250 °C	TC-J	972061020
LB-00-30-TC	24/48 Vac	0 ... 300 °C	TC-J	972061030
LB-00-50-TC	24/48 Vac	0 ... 500 °C	TC-J	972061040
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-00-10-TR	24/48 Vac	0 ... 100 °C	Pt100	972061200
LB-00-20-TR	24/48 Vac	0 ... 200 °C	Pt100	972061210
LB-00-25-TR	24/48 Vac	0 ... 250 °C	Pt100	972061220
LB-00-30-TR	24/48 Vac	0 ... 300 °C	Pt100	972061230
LB-00-50-TR	24/48 Vac	0 ... 500 °C	Pt100	972061240
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

ACCESSORIES

MODEL	DESCRIPTION	CODE N°
ZVN8/D	octal socket for DIN rail	T08550802

Please refer also to **Accessories for Temperature Controllers**

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HEADQUARTERS

DATASENSOR SpA
 via Lavino, 265 - 40050 Monte San Pietro, BO - Italy
 Tel. +39 051/6765611 • Fax +39 051/6759324
 www.datasensor.com • e-mail info@datasensor.com

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