



**TEMPERATURE  
CONTROLLERS FOR  
HEATING OR  
REFRIGERATION**

**TLZ**



- ON/OFF
- 16A Relay
- 33x75 mm
- Heat or Cool

<b>TLZ 10</b> Shown w/ optional BLUE display	<b>TLZ 11</b>	<b>TLZ 12</b>	<b>TLZ 20</b> Shown w/ optional BLUE display

**MECHANICAL CHARACTERISTICS**

Housing	Self-extinguishing plastic, UL 94 V0
Dimensions	33x75 mm– depth 64 mm
Weight	115 g approx.
Connections	2,5 mm <sup>2</sup> screw terminal block
Mounting	Flush in panel in 29x71 mm hole
Front panel protection	IP 65 mounted in panel with gasket

**ELECTRICAL DATA**

Power supply	12, 24 VAC/DC, 100...240 VAC +/-10%
AC Frequency	50 / 60 Hz
Power consumption	3 VA approx.

**INPUT DATA**

Thermistors	Programmable input for PTC KTY 81-121 (990 Ω at 25°C) or NTC 103AT-2 (10 kΩ at 25°C)	
Digital input	--	1 for free voltage contact

**OUTPUT DATA**

Control Relay	1 relay SPST-NO or 1 relay SPDT  16A-AC1,6A-AC3/250 VAC	1 relay SPST-NO 16A-AC1,6A-AC3/250 VAC or 1 relay SPDT 16A-AC1,6A-AC3/250 VAC	1 relay SPST-NO or 1 relay SPDT  16A-AC1,6A-AC3/250 VAC
Alarm Relay	--	1 relay SPDT 5A-AC1,3A-AC3/250 VAC	--
Relay electric life	100000 operations for relay SPST-NO type 50000 operations for relay SPDT type		

**FUNCTIONAL DATA**

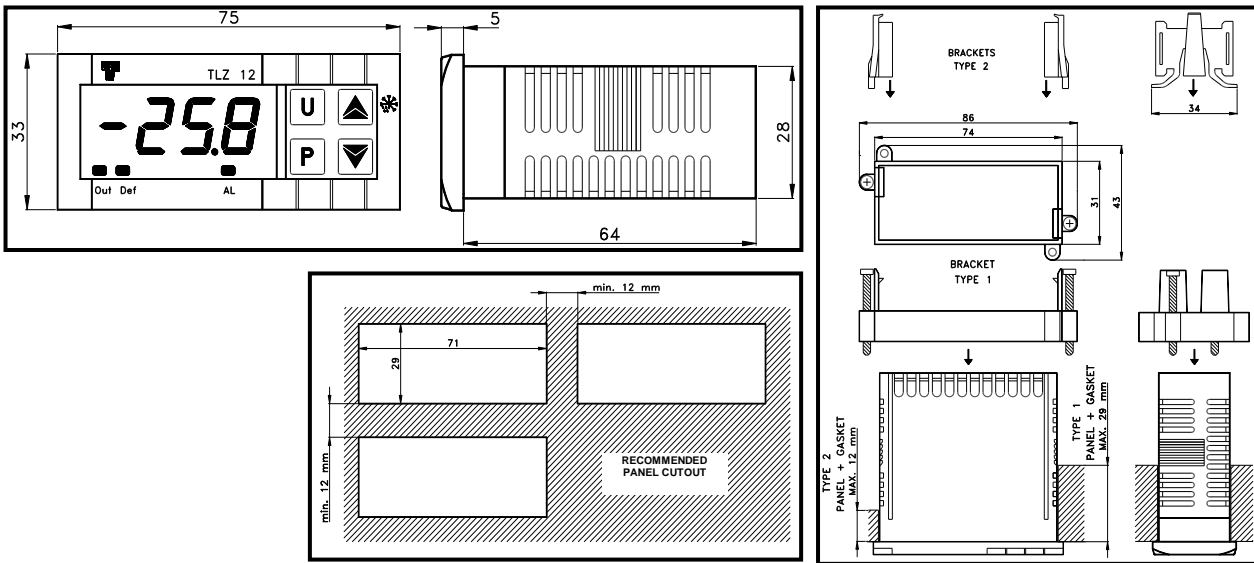
Control	ON/OFF		
Overall accuracy	+/-0,5 % full scale		
Display resolution	1° or 0,1°		
Measurement range	PTC -50...+150°C NTC -50...+109°C		
Measurement Unit	°C - °F, programmable		
Sampling rate	130 msec		
Display	4 RED or optional BLUE digits h=12 mm		
Defrost control	--	Time interval cycles by stopping compressor	
Acoustic alarm	--	Internal Buzzer	--
Fast programming	By using programming tool "KEY01"		
Parameters access	Protected by password		
Operating temperature	0...50°C		
Operating humidity	30...95 RH% without condensation		

Proudly Distributed by:

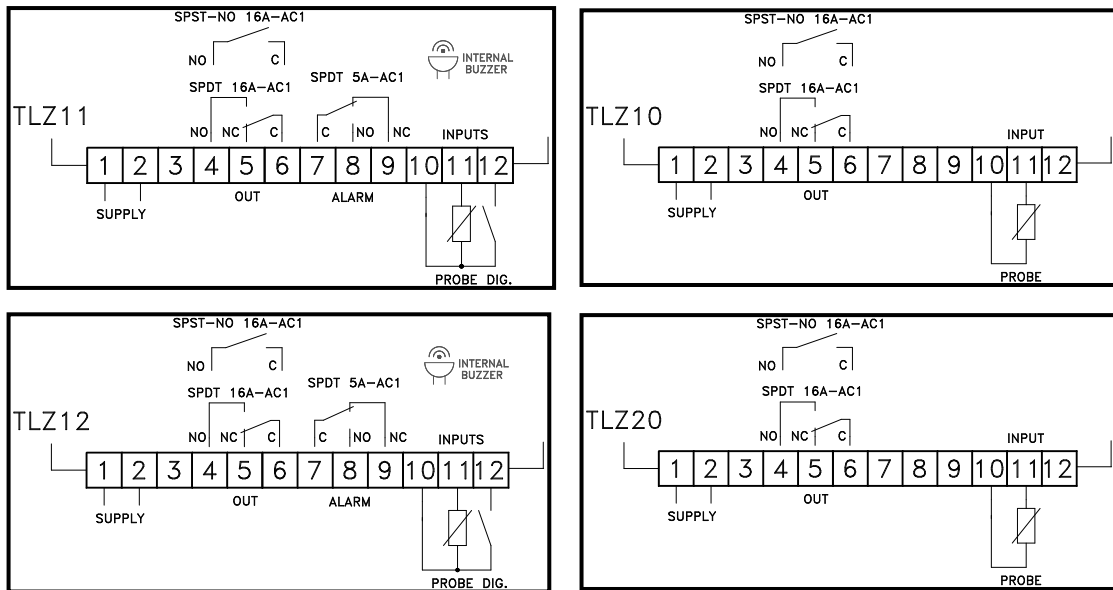


8 FOUR COINS DRIVE  
CANONSBURG, PA 15317  
PHONE: 724-746-1901 / FAX: 724-746-2021

**DIMENSIONS (mm)**



**CONNECTIONS**



**MODEL CODES**

<b>TLZ 11</b>	<b>33 x 75</b>	
<b>TLZ 12</b>		
Description	Codes	Code Description
Power Supply	<b>F</b>	12 V AC/DC
	<b>L</b>	24 V AC/DC
	<b>H</b>	100...240 VAC
Output <b>OUT</b>	<b>R</b>	Relay SPST-NO 16A AC1
	<b>S</b>	Relay SPDT 16A AC1
Alarm Output	<b>R</b>	Relay SPDT 5A AC1
	<b>-</b>	None

<b>TLZ 10</b>	<b>33 x 75</b>	
<b>TLZ 20</b>		
Description	Codes	Code Description
Power Supply	<b>F</b>	12 V AC/DC
	<b>L</b>	24 V AC/DC
	<b>H</b>	100...240 VAC
Output <b>OUT</b>	<b>R</b>	Relay SPST-NO 16A AC1
	<b>S</b>	Relay SPDT 16A AC1