

**TS-L3D series temperature switches**

- Microprocessor technology enables additional customer functions (window comparisons, temperature difference)
- Complete range of switches for 1 to 2 inputs with one to two switching relays
- Switching adjustment made via programming or by buttons
- Possible input sensors: Pt100, Pt1000, Ni1000, 0 - 20mA, 4 - 20mA, 0 - 5V, 0 - 10V, others upon request

**General technical data:**

- **Supply voltage:** 230VAC 50Hz or 24VDC
- **Input signal:** Pt100, Pt1000 (3850), Ni1000 (6180, 5000), 0 ... 20mA, 4 ... 20mA, 0 ... 5V, 0 ... 10V
- **Temperature dependencies:** (ČSN IEC 770) :0.05%/10°C
- **Long-term stability and switch drift:** 0.02%/500hours
- **Ambient operating temperature:** -25°C to 60°C
- **Relative humidity:** < 80% non-condensing
- **Linearization:** implemented via programming
- **Hysteresis:** optional via programming or at the time of ordering
- **Protection:** IP20 to IP54
- **Safety:** ČSN EN 61010-1
- **Immunity to interference:** ČSN EN

**TS-L3D** - 24 VDC or 230 VAC power supply. This version has one input and one relay, or two differential inputs and one relay, or two separate inputs and two relays. The input settings are set by the manufacturer. Hysteresis adjustable via programming. Can be supplied with a window comparison function.

### Ordering:

Type						
TS-L3D	TS-L3D temperature and universal switch for a DIN rail with display					
	Code	Power supply voltage				
	24 230	24 VDC or 24 VAC 230 VAC				
		Code	Number of inputs			
		1	1 input			
		2	2 inputs			
			Code	Input type		
			1	Pt100		
			2	Pt1000		
			3	Ni100		
			4	Ni1000		
			5	0...5V		
			6	0...10V		
			7	4...20mA		
			8	0...20mA		
			9	Resistance difference		
			S	Special		
				Code	Bottom limit / Upper limit	
				DM / HM	e.g. -20/260°C	
					Code	Number of relays and control
					R1	1 relay – control from input 1
					R2A	2 relays – both controlled from input 1
					R2B	2 relays – relay 1 controlled from input 1 - relay 2 controlled from input 2
TS-L3D	24	1	1	-20/260°C	R1	Sample order

Example order: A temperature switch and universal switch for a DIN rail with display (TS-L3D), 24VDC power supply, one input, Pt100 input sensor, measuring range -20 ... 260°C, one relay controlled from input 1.