



**Smart Irrigation**  
From the Ground Up

(800) 272-7472  
www.tucor.com

**THE RKD** is a decoder-based, 2-wire controller supporting from 1-100 Stations (valves). The RKD uses the RKLD-050 decoder to energize valves in the field. The RKLD-050 is easily programmed by the user with a specific Station ID, then is connected anywhere along the 2wire path. Enabling that Station then turns on the valve. The decoder can energize almost any 24 VAC solenoid on the market, and can be reprogrammed with a different ID when desired.

Tucor wire is the preferred means of connecting the field decoders to the RKD. Tucor wire is designed expressly to ensure a secure, watertight electrical pathway for decades in the future.

Field disruptions due to lightning are minimized by use of the SP-100 surge protector, which safely absorbs 2wire voltage surges. It adds substantial protection to the 2-wire path.

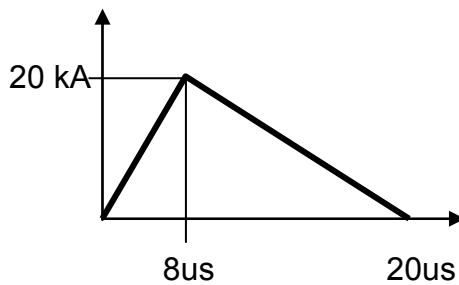
**SPECIFICATIONS**

**RKLD-050 Line Decoder:**

- Dimensions: 1.5" x 1.4" x 2.3"
- Lead length: 11"
- Ordered in box-quantity of 10

**SP-100 Surge Protector:**

- Normal spark-over voltage: 230V
- Max. spark-over voltage: 450V
- Max. current:



An SP-100 must be installed and grounded every 500 feet and at the end of a wire run. Resistance of the 2-wire to ground must be 50Ω max.

**Tucor Wire:**

- Insulation: Polyvinylchloride
- Jacket: Polyethylene
- Sizes: 12-18 AWG
- Colors: Red, Green, Yellow, Orange, Purple, Blue ‡
- Spool lengths (feet): 500, 1000, 2500 ‡

‡ Certain colors and spool sizes are special order: contact Tucor for specifics.



The RKLD-050 Line Decoder  
SP-100 Surge Protector  
Tucor Wire

Number of simultaneous Programs	Valves evenly distributed along 2-wire (ft.)		
	AWG 18	AWG 16	AWG 14
1	7,000	11,000	17,800
2	6,400	10,200	16,300
3	5,500	8,800	14,100
4	4,900	7,800	12,500
5	4,400	7,000	11,200
6	4,000	6,300	10,100
7	3,600	5,800	9,200
8	3,300	5,300	8,500
9	3,100	4,900	7,800
10	2,800	4,600	7,300
10 + 1 manual	2,700	4,300	6,800
10 + 2 manual	2,500	4,000	6,400