



RKD – Decoders & Wire

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 2-wire 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 2-wire voltage surges. It adds substantial protection to the 2-wire path.

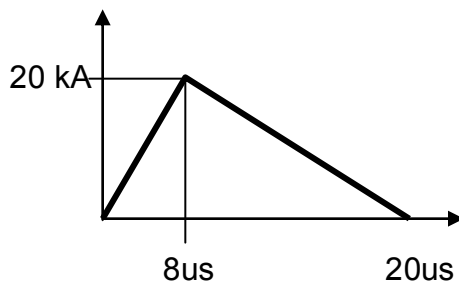
SPECIFICATIONS

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 or less.

Tucor Wire:

- Insulation: Polyvinylchloride
- Jacket: Polyethylene
- Sizes: 12-18 AWG
- Colors: Red, Green, Yellow, Orange, 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