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2Wire Decoder-in-Solenoid Advanced Technology



Now for the first time.....

2Wire Decoder built-into a valve solenoid

Special Features

- Combines a 2Wire Decoder and Solenoid into one product
- Reduces number of field wire connections by 50%
- ✓ Multi-colored LED provides feedback reduces troubleshooting time
- Fits most valves w/ threaded adapter
- Compatible w/ all Underhill 2Wire Controllers or 2Wire Converters
- Superior distance and simultaneous valve operation
- Built-in powerful lighting surge protection

Once in a while, a product comes along that changes everything....

Electrical Specifications

- 19-32 VAC 60 Hz
- In-Rush Current 300-350mA
- Holding Current-30mA (2-way solenoid) 60mA (3-way solenoid)
- Idle Current 4.5mA
- Maximum Number of Simultaneous Valve Operation
 - 2-way 16 (spread relatively equally along the 2Wire path)
 - o 3-Way 10 (spread relatively equally along the 2Wire path)
- Maximum Operating Distance (single valve actuation)*
 - o 10 AWG 71,500Ft.
 - o 12 AWG 35,750 Ft.
 - o 14 AWG 32,500 Ft.
 - * the more simultaneous operating valves, the shorter the wire length

Advanced Features

- Program the corresponding station number as part of initial controller setup and installation 1-63
- The FUSION can be programmed from an Underhill Portable Programmer with updated software.
- Connects to a 2Wire path with a single pair of wires directly to the solenoid
- Ultra-low holding current allows more stations to be operated at one time if control system can be support this with programming capability
- The FUSION 2Wire Decoder-in-Solenoid comes standard with co-molded LED providing visual feedback as follows:
 - Green Color Voltage is being sent down the
 2Wire path
 - Red Color No decoder station address or solenoid is "On" for multi-wire applications
 - Orange Decoder has been signaled "On" as is receiving a decoded message
 - No Color No power, broken wire or solenoid is drawing excessive current



2-Way FUSION



3-Way FUSION

Ordering Information

TW-FC3-DBI-24 Fusion 2Wire Decoder-in-Solenoid, 3-way

commercial model fits Bermad, Dorot & Irririch

valves

TW- FC2-24 Fusion 2Wire Decoder-in-Solenoid, 2-way

Commercial model fits, Bermad, Rain Bird,

Toro/Irritrol and Hunter series valves

TW-FC2-RBA Solenoid adapter for Rain Bird valves TW-FC2-HA Solenoid adapter for Hunter valves

TW-FC2-TIA Solenoid adapter for Toro / Irritrol Valves



