



Addendum: Conflict Between 2SRP and 4-State Supervised Readers

This addendum describes the operation of the 2SRP board with the new CASI-RUSCO readers that incorporate 4-state supervision of the Door and Request-to-Exit inputs.

Affected Reader Models

Description	Model	Part number
Contact Smart Card Reader	820	430122001
Contact Smart Card Reader with Keypad	825	430123001
Contactless Smart Card Reader	840	430134001
Contactless Smart Card Reader with Keypad	845	430135001
Dual Tech Proximity/Magnetic Stripe Reader	1000	430138001
Dual Tech Proximity/Magnetic Stripe Reader with Keypad	1010	430139001
Long Range Proximity Wall Mount Reader	1081	430133002
Long Range Proximity Parking Lot Reader	1100	430133001

If you are utilizing 4-state supervision of the REX and Door Status that is available in the above readers, the readers must be connected to a 2RP, an 8RP, or an M/PX-2000. If they are connected to a 2SRP in this mode, you will get inaccurate results.

The 94x and 97x reader families perform 2-state monitoring and operate normally with the 2SRP. Additionally, the affected readers operate normally when used in the 2-state monitoring mode.

See the individual reader manuals for information on connecting the reader inputs for 2-state and 4-state monitoring.

Definition

2-state monitoring

The input can detect only the following conditions of a contact:

- Switch open.....greater than 10,000 ohms
- Switch closedless than 50 ohms

4-state monitoring

The input can detect four conditions of a connection:

- Cut greater than 10,000 ohms
- Shortless than 50 ohms
- Switch open.....2000 ohms +/- 20%
- Switch closed1000 ohms +/- 20%

Thus, a cut or short are identified as tamper conditions.

2RP and Secure Perfect Configuration with 4-State Supervision

While 4-state supervision is supported under **Secure Perfect** directly with the 8RP, the 2RP needs to be configured as a 2SRP to cause the correct entries in the database to be generated for processing the tamper alarms.

Picture Perfect directly supports the above readers in both the 8RP and 2RP.