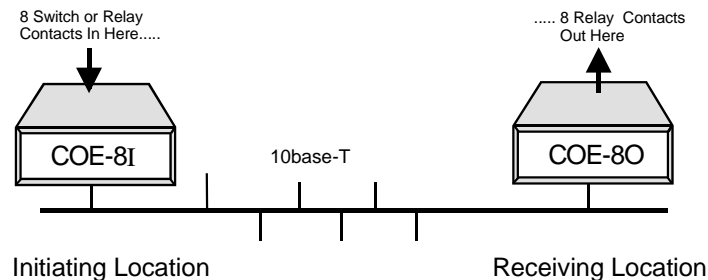


General Description:

This document describes the protocol used between a COE-8I and COE-8O (ver 1.3 and above) to provide contact closure over Ethernet. It also describes how to send or receive information from or to a single COE-8 to a software program or other device.

For the purpose of this description and for example, the following diagram applies



Upon any change of the inputs at the Transmitting Location:

- 1 The COE-8I opens a connection to the Receiving Location on the TCP port selected in Setup. The default port is 9100
- 2 The COE-8I sends 2 bytes of data indicating the current status of each of the input that has changed and which relay to effect. The first byte identifies the relay to be changed and the second byte contains the status.

Example:

00100000 00100000 = Energize relay 6

00100000 00000000 = De-energize relay 6

00100001 00100000 = Energize relay 6 and de-energize relay 1

- 3 The COE-8O acknowledges the information by replying with a single byte that reflects its status.

Example:

00010010 = Relays 2 and 5 are energized all others are de-energized.

- 4 Upon receipt of the confirming byte, the Initiating COE-8 will close the connection.

Note: if a COE-8O is not used, the software or device being contacted must reply with any 1 byte of data or the COE-8I will maintain the connection for 10 seconds. It will then close the connection, wait 10 more seconds, and then retransmit the data. This will continue until the acknowledgement is received.

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