

All digital-expansion inputs produce data of 1 if the expansion cable is removed. No status is in the produced assembly. Attribute 101 in the identity object reports module faults. If no faults are present, an explicit message GET command returns 0. If the ribbon cable is disconnected, it returns 0x04, which is for module location change. The module LED also flashes indicating a fault if an expansion is disconnected.

To determine if the data is valid, continuously send an explicit message to the module to check the status of the input conditions since no status word is in the I/O mapping data table.

- Class = 1
- Instance = 1
- Attribute = 101 (0x65)

To detect the loss of communication to the expansion module, use one of these methods.

- If an unused input is available, tie the unused input on the last expansion low. If that input goes high with a value of 1, a loss of communication to the expansion or expansions occurred.
- If no unused input is available, check expansion inputs for the condition of all on. To check validity in this case, send an explicit message to the identity object class 1, instance 1, attribute 101 (0x65). A returned value of 0 indicates the input data is good.