MODI
Optical Solutions

Technical details:

Interfaces:

SMEMA - Opt. with SMEMA interface BOX

4 Digital Inputs - 24V Opto

4 Digital Outputs - 24V Opto

1 Light OUT - For using with MODI LED Light

RS 232 (Adjustable BaudRate) - For connection with other machines

TCP / IP (Adjustable IP-Adress) - Usable for Traceability

Key Panel - Usable for configuration and starting the reading process

Code types:

Int. 2/5, Code 39, Code 128, UPC/ EAN, 4-State, Postnet, Planet, RSS, Code 93, Codabar, PDF 417, Symbology, Data Matrix, QR Code.

MODI IBOX

The ideal interface between single code readers and traceability systems

The IBOX is an **intelligent scan unit**. It is able to control your transport conveyor via **SMEMA** interface and do all processes like traceability booking. It is possible to get the code content via **RS232** interface to other machines.

Every Ibox is an independent system, which **don't need any computer**. The systems have a display to tell the user the current process state.

Additional, every Ibox has **4 Digital Inputs** and **4 digital outputs**. So it is able to use it for complicated scan processes.

For visualization and control you can use the MODI IBOX Server Software which manages all IBOXES within the complete process line.

The IBOX is able to communicate with different types of ID Reader. Usually it is used with a Cognex DataMan ID-Reader. So it is able to read all codes which are supported from the DataMan incl. all functions of the setup tool. Other scanner types on request!

Configuration Codes:

"QUICK" setup with the help of configurations codes is possible:

- Set Baudrate
- Set Reading Timeout
- Set Number of Reading (if reading failed)
- Set on Factory settings
- Set Status "Pass through ON"
- Set Status "Pass trough Off"

Inputs / Outputs:

- Trigger
- Bypass
- Read Confirm

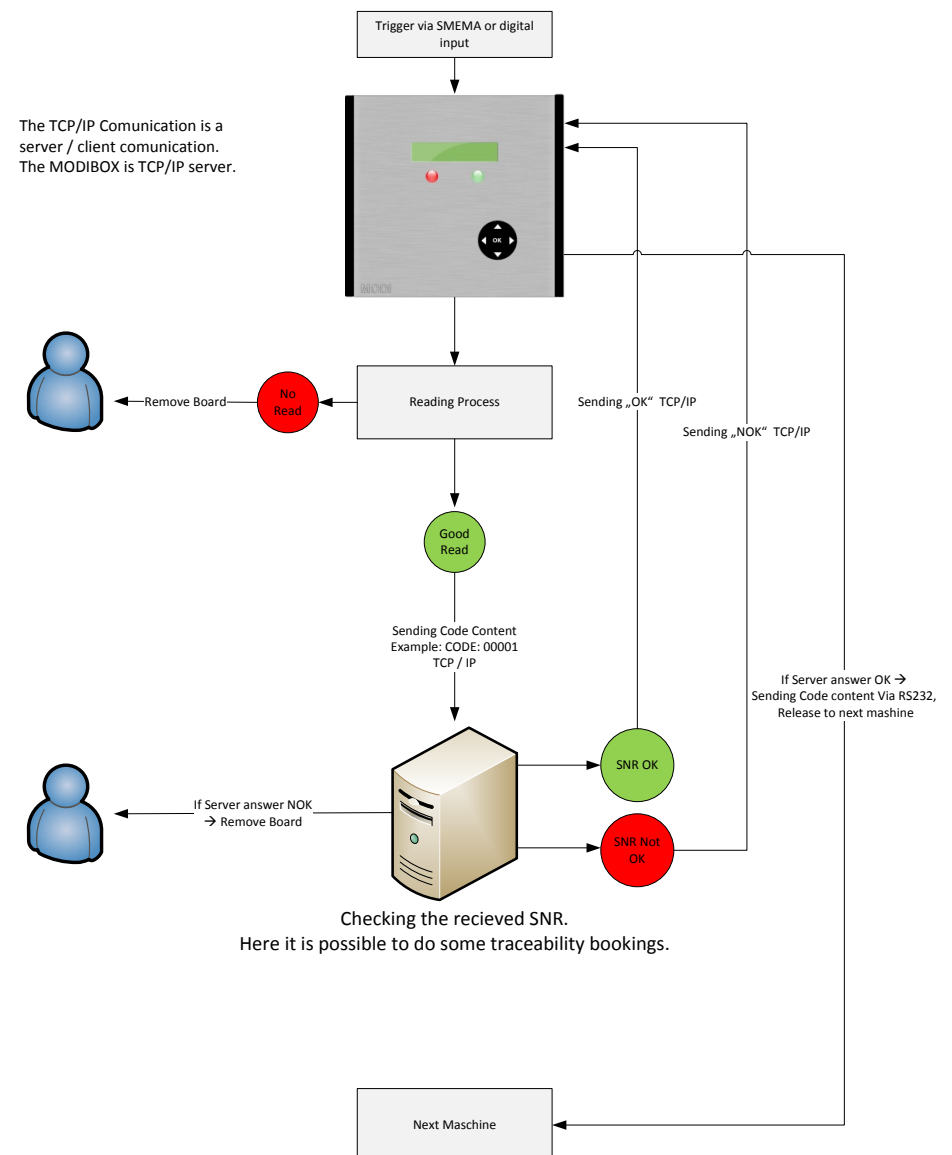## Dimensions:

215 mm x 201,5 mm x 55 mm

Power:

24 VDC

Process:

The IBOX is able to use the interfaces for every conceivable process. It has a micro controller which is programmable. So it is possible to change the standard process of the box to a special process for your requirements!

MODI BOX State Chart Network Comunication

Trigger via SMEMA or digital input

The TCP/IP Comunication is a server / client comunication. The MODIBOX is TCP/IP server.

Remove Board — No Read — Reading Process — Sending „OK" TCP/IP

Sending „NOK" TCP/IP

Good Read

Sending Code Content
Example: CODE: 00001
TCP / IP

If Server answer OK →
Sending Code content Via RS232,
Release to next mashine

SNR OK

If Server answer NOK → Remove Board

SNR Not OK

Checking the recieved SNR.
Here it is possible to do some traceability bookings.

Next Maschine

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