

# MSTKN Socket Tray

## P-P14-HM-PN2P-M12



- 4-slot socket tray with status display and operator guidance
- 2 operation modes possible: (intelligent mode and direct-I/O mode)
- Detailed diagnostic capabilities
- Maximum tool diameter of 48mm
- Rugged plastic casing (IP54)
- Controlled as ProfiNet-Slave
- Expandable up to 4 trays via internal bussystem
- 24 Volt (DC) power supply

### Overview

The MSTKN socket trays are developed for industrial environments. The tray is a ProfiNet Slave and can be embedded in any existing ProfiNet bus system. Power supply and bus connection are realized with two M12 connectors.

### Function Description

The tray is working with a data rate of 100Mb/s. The number of input bytes (to socket tray) can be separated into two areas "action (always 1 byte)" and "selection". The output bytes (from socket tray) can be separated into the areas "status (always 1 byte)" and "status". The number of selection and status bytes depends on how many socket trays are used.

### LED display

Each socket has three colored LEDs (red, yellow and green) to signal the state of the socket and the preselection of the control unit. They can also show malfunctions of the socket tray itself. In addition, the tray provides two additional LEDs (red & green) with user defined functions, e.g. to show OK or NOK tightening results.

### Operation modes

The simple data exchange mode ("intelligent" mode) uses 2 bytes I/O and mimics the behavior of the 24V-I/O based MSTKN socket trays (free selection, guided operation). The Profinet master can request a tool to be used by the operator (which is then indicated by the LEDs) and read back the tray sensor states (which tool is removed from the tray). The full control data exchange mode ("direct-I/O" mode) uses one byte I/O for each tray to read the sensor state and control the three LEDs individually.

### Additional functions

Using the programming cable and the software that is supplied with the socket tray, the group functions and tool recognition can be configured. The integrated diagnostic capabilities enable the user to monitor the status of each slot via ProfiNet. For more detailed information please see the manual.

### Technical Data

**Dimensions:** WxHxD 255x150x60 mm

**Weight:** approx. 1,6 kg

**Operating temperature:** -20 ... +50°C

**Protection:** IP54

**Supply:** 5V DC, < 200mA

**Connectors:** 2x M12 A-coded (5 pin, 1xF + 1xM),  
2x M12 D-coded (4 pin, F)

**EMC:** EN 61000-6-2 and EN 61000-6-4

### Ordering Information

| Order code | Description and references |
|------------|----------------------------|
| 22330      | MSTKN-P-P14-HM-PN2P-M12    |

Please note, that additional models (additional enclosures/sizes and interfaces) of MSTKN are available.