

MSTKN Socket Tray – H-S14-HM-PB-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 38mm
- Rugged aluminium casing (IP54)
- Profibus-DP slave fieldbus interface
- Expandable up to 32 sockets via internal bussystem
- 24 Volt (DC) power supply

Overview

The MSTKN socket trays are developed for industrial environments. The tray provides a Profibus-DP Slave interface and can be connected to any existing Profibus bus system. Power supply and bus connections are available using M12 connectors.

Function Description

The Profibus interface is working with a data rate of up to 12Mb/s. The fieldbus data layout defined by the GSD file provides either simple data exchange with built in default behaviors or full control by the Fieldbus master with direct access to every LED and sensor.

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 Profibus 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 do plausibility checks (e. g. more than one tool removed) and reports errors to the fieldbus master. For more detailed information please see the manual.

Technical Data

Dimensions: WxHxD 255x105x60 mm

Weight: approx. 1,2kg

Operating temperature: -20 ... +50°C

Protection: IP54

Supply: 24V DC, < 200mA

Connectors: 2x M12 A-coded (5 pin, 1xF + 1xM),
2x M12 B-coded (5 pin, 1xF + 1xM)

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

Ordering Information

Order code	Description and references
22293	MSTKN-H-S14-HM-PB-M12
3609409887	

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