

MSTKN Socket Tray – H-S14-HM-DB25-M12



- 4-slot socket tray with status display and operator guidance
- 3 operation modes possible: free selection, worker guidance and direct operation
- Maximum tool diameter of 38mm
- Standard software version is binary-coded, expandable up to 32 sockets
- Software versions OP and XML are bit-coded, expandable up to 8 sockets (2 trays)
- Rugged aluminium casing (IP54)
- 24 Volt signal level and supply voltage

Overview

The MSTKN socket trays are developed for industrial environments. The HM-DB25-M12 types can be controlled by any PLC, BOSCH tightening systems (IM24V Card) or other 24V-capable interfaces. The HM-DB25-M12 and the BOSCH systems can be connected with a standard 1:1 DSUB25 cable.

Function Description

The socket tray communicates through a 24V interface using a male DSUB25 connector. The interface is used to select the operating mode, preselect the tool and to execute diagnostic functionality. The communication is either binary-coded or bit-coded.

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. The XML version is using a different color coding for the operating status compared to the standard and OP version (see manual). 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

Depending on which operating mode is selected, it is possible to guide the user for which tool to pick ("user guidance") or leave this decision to the user ("free selection" & "direct operation"). For additional safety (to identify cabling problems) in "direct operation" mode the select output signal is set only if the tray receives the correct return value from the control unit (mirrored signals). In every other mode the select output signal is set as soon as the correct tool is picked.

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. 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: DSUB25 (male), M12 A-coded (5Pin, fem)

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

Ordering Information

Order code	Description and references
22291 3609409885	MSTKN-H-S14-HM-DB25-M12
22321 0608PE1599	MSTKN-H-S14-HM-DB25-M12-OP
22365 3609439113	MSTKN-H-S14-HM-DB25-M12-XML

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