

# M2SMART® HMI

WIRED HMI WITH FUNCTIONAL SAFETY ACCORDING TO DIN EN ISO 13849 AND 13850

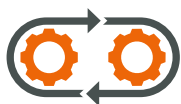
**Smart solutions incl. emergency stop button and three-stage enabling switch**

## M2Smart® HMI10

- ✓ Robust industrial device
- ✓ Long-term availability of hardware and software
- ✓ Secure Android™ Industrial+ operating system independent of Google services

## M2Smart® HMI Case

- ✓ HMI Case for the use of commercially available Tablets
- ✓ Long-term availability of the HMI Case
- ✓ Any operating system thanks to Consumer Tablets



**Drive and Control  
Technology**



**Machinery and Plant  
Engineering**



**Industrial Automation**





**The wired M2Smart® HMI series supports safe machine operation, offers functional safety and the necessary robustness for industry.**

The M2Smart® HMI10 and the M2Smart® HMI Case enable safe machine operation in many areas with the help of additional modules such as a emergency stop button and three-stage enabling switch.

The M2Smart® HMI Case serves as an entry-level variant. A robust, industrial case for the use of commercially available tablets such as the iPad from Apple or tablets from Samsung and Lenovo.

The robust version M2Smart® HMI10, developed in-house by ACD, offers sufficient space for optimal visualization via the 10.1 inch display. The long-term available hardware and software make the M2Smart® HMI10 especially interesting for the industry and the secure operating system Android™ Industrial+ does not allow any data leakage to third parties. The wired M2Smart® HMI10 can be converted to the wireless high-end version of the HMI device by the manufacturer at any time.



# M2Smart® HMI10



## Display

Type:	IPS TFT color display
Size:	10.1" (16:10)
Resolution:	800 x 1280 pixels (vertical)/ 1280 x 800 pixels (horizontal)
Touchscreen:	Capacitive
Background lighting:	LED backlight

## Control elements

Emergency stop button:	Emergency stop button
Enabling switch:	Three-stage enabling switch
Keys:	One side key, freely configurable

## Safety elements

Emergency stop button:	B10d / Switching cycles: 250.000 / 50.000
Enabling switch:	B10d / Switching cycles: 100.000 / 100.000

## Computer core

CPU:	NXP® i.MX8M Mini, 4x Cortex A53 (4x 1.8 GHz), 1x Cortex M4 (1x 400 MHz)
Memory:	16 GB Flash, 2 GB RAM Optional: 32 GB Flash, 4 GB RAM

## Interfaces

Communication:	Visualization and operator data: WLAN according to IEEE802.11a/b/g/n/ ac/d/h/e/i/r/w/v  Safety data: Wired (emergency stop and enable function)
Connection cable:	10-core connection cable, Length: 5 meters, Optional 10 meters

## Dimensions, Weight

Dimensions without module:	197 x 313 x 58 mm (L x W x H)
Weight without module, without connection cable:	Approx. 1500 g
Dimensions with module:	197 x 333 x 93 mm (L x W x H)
Weight with module, without connection cable:	Approx. 1750 g

## General information

Operating system:	Android™ Industrial+
Power supply:	Via connection cable
Protection class:	IP65
Certifications:	CE
Accessories:	Different modules possible including handwheels, additional keys, etc.
Directives:	Machinery Directive 2006/42/EG // RoHs Directive 2011/65/EU





# M2Smart® HMI Case



## Recommended tablets

<b>Manufacturer/Type:</b>	Samsung Galaxy Tab A7, Apple iPad 8th generation, Lenovo Tab M10 Full HD Plus
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## Control elements

<b>Emergency stop button:</b>	Emergency stop button
<b>Enabling switch:</b>	Three-stage enabling switch

## Safety elements

<b>Emergency stop button:</b>	B10d / Switching cycles: 250.000 / 50.000
<b>Enabling switch:</b>	B10d / Switching cycles: 100.000 / 100.000

## Interfaces

<b>Communication:</b>	Safety data: Wired (emergency stop and enable function)
<b>Connection cable:</b>	10-core connection cable, Length: 5 meters, Optional 10 meters

## Dimensions, Weight

<b>Dimensions:</b>	352 – 398 x 197 x 93 mm (L x W x H)
<b>Weight without tablet, without connection cable:</b>	Approx. 1000 g

## General information

<b>Power supply:</b>	Via connection cable
<b>Protection class (for Case):</b>	IP65
<b>Certifications:</b>	CE, UL
<b>Accessories:</b>	Different modules possible including handwheels, additional keys, etc.
<b>Directives:</b>	Machinery Directive 2006/42/EG // RoHS Directive 2011/65/EU



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Direct link to M2Smart® HMI webpage:

