HMI PLATFORM

BUILD YOUR OWN OPERATOR INTERFACE

The Modular HMI Platform enables the creation of fully customized operator units by combining joysticks, keypads, and displays into one rugged control panel.

Thanks to its CAN-based architecture and modular design, components can be freely configured, upgraded, or replaced. This platform is ideal for OEMs seeking a flexible, long-term solution that adapts to changing machine requirements and individual design standards.

HMI MC SINGLE UNIT

COMPACT KEYPAD CONTROL WITH CUSTOM DESIGN

This single-module HMI unit offers 16 freely assignable keys and a customizable front foil – the ideal solution for space-efficient control with full design flexibility.

» 16 programmable keys for tailored machine functions
» Neutral front foil surface for custom branding and symbol layout
» Compact format for tight installation spaces
» CAN interface (ISO 11898, CANopen, 24 V, 250 kBit/s) for easy integration

Technical data	
Voltage range	8 … 32 V DC
Maximum power input	3.1 W
Weight	700 g
Operating temperature range	- 30 ... + 75°C
Storage temperature range	- 40 ... + 80 °C
Ingress protection	IP24

CANopen

Name	Article number	Module	Interfaces
HMImc	04-26-15050	1 module, 16 keys, neutral front foil	CAN-interface : ISO 11898-24V 250kBit/s CANopen

HMI MC TRIPLE UNIT

Technical data	
Voltage range	8 … 32 V DC
Maximum power input	5.1 W
Weight	1.8 kg
Operating temperature range	- 30 ... + 75°C
Storage temperature range	- 40 ... + 80 °C
Ingress protection	IP24

CANopen

TWO-JOYSTICK CONTROL WITH FULL KEYPAD FLEXIBILITY

This HMImc triple unit combines two precision joysticks with a 16-key keypad and emergency stop in a rugged housing – ideal for compact yet highly functional machine operation.

» Dual joysticks for intuitive multi-axis machine control
» Customizable 16-key keypad for flexible function assignment
» Integrated emergency stop for safety-critical applications
» Modular platform enables seamless replacement or expansion

Name	Article number	Module	Interfaces
HMImc	04-26-35063	3 Modules, neutral front foil, 2x joystick-modules, 16 keypad	CAN-interface : ISO 11898-24V 250kBit/s CANopen

HMI MC TRIPLE UNIT

Technical data	
Voltage range	8 … 32 V DC
Maximum power input	4.1 W
Weight	1.8 kg
Operating temperature range	- 30 ... + 75°C
Storage temperature range	- 40 ... + 80 °C
Ingress protection	IP67

COMPACT CONTROL WITH MAXIMUM SAFETY

This triple HMI unit features two joystick modules, a 6-key keypad, an integrated emergency stop, and a protective railing – engineered for rugged field use and intuitive operator handling.

» Dual joysticks for versatile motion control
» Compact 6-key keypad for essential command functions
» Emergency stop button ensures safety-critical response
» Protective railing for ergonomic grip and collision protection
» CAN interface (ISO 11898, CANopen, 24V, 250 kBit/s) for seamless integration

Name	Article number	Module	Interfaces
HMImc	04-26-35031	3 Modules, neutral front foil, 2x joystick-modules, 6 keypad	CAN-interface : ISO 11898-24V 250kBit/s CANopen

HMI SMART

MODULAR CONTROL UNIT FOR MOBILE MACHINES

The HMI SMART PANEL is a fully modular operator interface with configurable I/Os, customizable design, and finger joysticks – tailored for quick integration via CANopen.

» CANopen-compatible, ready for fast system integration
» Finger joystick and 16-key input area
» Front foil customizable in color and layout
» Emergency stop button included
» Software-configurable I/O

Technical data	
Voltage range	8 … 32 V DC
Current consumption	70 mA at 12V
Ingress protection	700 g
Fitting	- 30 ... + 75°C
Operating temperature range	- 40 ... + 80 °C
Storage temperature range	IP24
EMC	EN 61000-6-2:2005 EN 61000-6-4:2007 + A1:2011
Vibration, Shock and Free Fall	EN 60068-2-6:2007 / EN 60068-2-27:2009
Temperature	EN 60068-2-1, N14Nb, -2, -78, -30

Name	Article number	Module	Interfaces
HMIsmart	33-04-26-97605	6x Paddle joystick (hall effect) 6x Key switches with single multicolor led feedback 6x Key switches with double multicolor led feedback 12x Multicolor segnalation leds 1x Buzzer (95dB external mount)	1x CAN BUS (11/29 bit identifier), ISO 11898-2 CanOpen communication protocol

STAND-ALONE HALL JOYSTICK

HALL-EFFECT SAFETY JOYSTICK

This rugged stand-alone joystick uses redundant Hall-effect sensors for safe and precise control in mobile and industrial applications – compliant with PLd cat.3.

» Dual-sensor redundancy for PLd safety level
» Compact, permanent mount with anti-rotation design
» Long service life: over 3 million movements
» Resistant to harsh environments (DIN EN 60529)

Technical data	
Operating voltage	8 ... 32 V (DC)
Nominal voltage	24 V (DC)
Max. power consumption	2.4 W per Channel
Dead zone around zero	± 10° (X-, Y-axis)
Joystick signal X-, Y-axis	Linear in the range of 10° .... 28°
Resolution joystick signal X-, Y-axis	≤ 100 steps
Joystick signal Z-axis	Switch only
Resolution joystick signal Z-axis	Binary
Deflection X-, Y-axis	Approx. ± 28°
Deflection Z-axis	2 mm, with counterholder plate demounted
Resilience X-, Y-axis	9.6 N
Resilience Z-axis	21.5 N
Max. Overload X-, Y-axis	Approx. 290 N
Max. Overload Z-axis	600 N
Weight	Approx. 210 g
Operating temperature range	- 30 ... + 80°C (dry)
Storage temperature range	- 30 ... + 80°C (dry)
Ingress protection	IP 67

Name	Article number	Cable Outlet	Connector	Interfaces
Joystick	03-07-50760	180° vertical, in extension of the joystick lever	5-pin cable connector M12, A-coded, cast-on Imax = 4 A Round connector according to IEC 61076-2-101	2x CAN physical layer ISO 11898-2 Bitrate: 250 kBit/s CANOpen, programmable (e.g. 125/250/500 kBit/s) Addresses / Node-IDs: Rotary switch with 16 positions for setting Node-IDs