



Mipeg X

Mipeg X is a modular, end user configurable system. The main, standard building blocks are listed below with the key technical specification.

Key features

- Flexible
- Expandable
- User Configurable
- Compatible with existing load sensors
- Color graphical touch screen monitor

Operator's Display:

- Physical size: 410x286x65mm (16.1x11.3x2.6"), weight approx. 4,8 kg (10.6 lbs)
- Mounting bracket: VESA 100x100, allowing best possible flexibility, pan and tilt adjustment
- Display size and specification: 15", portrait format using color TFT-LCD LED backlight technology, 1280x800 pixels, 16.7 million colors. Active area of display, 207x331 mm (8.1x13"), WxH
- Extreme brightness: 1000 cd/m²
- Touch screen : Analog resistive, touch screen (can use gloves) and > 1 million finger touch operations

Data transfer:

- SD and SDHC
- Operating temperature: -30 to +70°C (-22 to +158°F)
- Shock & Vibration: 40G, half sine
- Certification, 3rd party: Ingress protection IP65, Atex and IECEx/IP66 non-EX ATEX/IECEX Zone 2,22

Computer Cabinet:

- Physical size: 380x380x210mm, (15x15x8.3") WxHxD, weight approx. 12 kg (26.5 lbs) Standard model, sheet metal, epoxy coated - stainless steel optional
- Mounting bracket: External wall mounting bracket included
- Operating temperature: -30 to +50°C (-22 to +122°F)
- Certification, 3rd party: Ingress protection IP66 (NEMA 4), Atex and IECEx Zone 2,
- Optional:
- Power Supply: Nominal 24 Vdc power (18-28 Vdc), Battery operation, 12 Vdc and 110-230 Vac, 50-60 Hz available upon request.

Crane/Application Interface:

Switch inputs: 16 limit switches/change-over digital switches, ie Hoist limits, Rigging switches, Personnel/Man Riding selection switches

Analog inputs, 8 channels:

Load sensor input: 4 frequency base
CANbus: For 4 absolute encoders
Range: 0-10 Vdc signals, programmable to project specific requirements
4-20 mA (0-20 mA) signals.

Outputs: 16 programmable outputs to control solenoids, alarms and other 3rd party equipment and logic such as PLCs

Optional: Potential free relay contact

Analog outputs, 6 channels:

Range: 0-10 Vdc signals, programmable to project specific requirements
4-20 mA (0-20 mA) signals with converter.

Communication: RS485 Modbus to main display
RS232 communication to PLC logic

Data transfer: 1xUSB for software upgrade
(up/down loading of configuration)

Radius/Boom Angle Sensor:

Physical size: 120x140x52mm (4.7x5.5x2.0"),
weight approx. 2.45 kg (5.4 lbs)

Mounting bracket: Vertically mounted on the side of the boom using 4 bolts

Operating temperature: -20 to +60°C (-4 to +140°F)

Accuracy and repeatability: Better than 0.3% of reading ie typical max error on a 45m boom, 0.2m

Measuring range: Typically 3-8 Vdc

Certification, 3rd party: Ingress protection IP66,
Atex and IECEx Zone 1 certified

Fly/Aux/Main Load Sensors:

Physical size: Design to suit its application e.g.:

- to suit max design line tension, tension link type sensor
- to suit max deflection loading, engineered sheave sensor
- to suit max sheave shaft force, load pin sensor

Operating temperature: -20 to +40°C (-4 to +104°F)
Measuring range: typically 350-450 Hz, special frequency based signal, with signals designed to suit the load range of the sensor

Certification, 3rd party: Ingress protection IP66
Atex and IECEx Zone 1 certified

Crane Slew & Hook Position and direction sensor:

CANbus absolute encoder design with 4096 measuring points per shaft revolution, 4096 unique continuous revolutions, no end stop logic or physical

Physical size: Ø78 (3.07")x95mm (3.7"),
weight approx. 3 kg (6.6 lbs)
- stainless steel version

Mounting bracket: 10 mm (0.4") shaft coupling, support mounting application dependent

Operating temperature: -40 to +70°C (-40 to +158°F)
Accuracy and repeatability: better than 0,025% per encoder turn
Certification, 3rd party: Ingress protection IP66,
Atex and IECEx Zone 1 certified

Specifications subject to change without prior notice



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