



In the Fife D-MAX processor the operator interface and the controller are separate modular components, making the D-MAX easy to integrate, as pre-wired, pre-assembled solution, even in the smallest guiding systems, saving on installation and setup time. Either integrated into the guide structure, or remotely mounted, the Fife D-MAX provides the highest level of guiding accuracy, the most flexible customization thanks to its state-of-the-art software, high-speed networking being Ethernet based and dual drive capabilities, all packed into the smallest space requirements. The D-MAX Operator Interface makes the control of the guiding system easy and intuitive, thanks to the large graphic display and the function and navigation key based menu system.



## GENERAL SPECIFICATIONS

### D-MAX CONTROLLER

**Weight:** 940g

**Mounting Options:** integrated or wall mounted (adapter bracket)

**Operating Temperature:**  
0° - 60°C

**Power Consumption:**  
controller 50W, max.,  
motor drive 200W, max. at 24Vdc  
or 400W, max. at 48Vdc

**Drives per controller:**  
1 (single - drive version) or  
2 (dual - drive version),  
supporting all available Fife  
actuators (0,6A to 4A) and  
hydraulic valves

**Sensor Inputs:**  
4 independent sensor channels

**Built-In Networking:**  
Ethernet at 100Mb/s

**IP Protection:** IP-54

### Parallel Port:

featuring 6 inputs, 2 outputs, line speed input and remote guide point control (RGPC)

### D-MAX OPERATOR INTERFACE

**Weight:** 850g

**Mounting Options:**  
panel - mount or  
wall - mount (bracket required)

**Operating Temperature:**  
0° - 60°C

**Display:**  
high resolution 320 x 240 pixels,  
QVGA Graphic LCD display  
Viewing area: 122 x 92mm

**Built-in Networking:**  
Ethernet at 100Mb/s

**IP Protection:**  
IP-54 (panel-mount),  
IP-40 (wall-mount)

## KEY FEATURES

- Compact, easy to integrate controller
- Pre-wired, pre-assembled solutions available even with the smallest guides
- Easy and intuitive user interface with graphics and symbols on a large, easy to read, high-resolution LCD display
- Backward compatible with all existing Fife guiding systems
- D-MAX Controller available in single- and dual-drive configurations
- Easy to network: Device Net, Modbus TCP, EtherNet/IP, Profibus, Profinet, and ControlNet protocols available, CC-Link, and CANopen in preparation
- Built-in Ethernet port
- Durable construction for low maintenance and long-lasting reliability
- CE certified

## D-MAX CONTROLLER



- Available in single- and dual drive configuration.
- Dual drive configuration suitable for both guiding and automatic sensor positioning.
- The Fife D-MAX controller is backwards compatible to Fife CSP-01, DP-20, DP-30 and CDP-01 processors.
- 24 Vdc power supply voltage.
- 48 Vdc required for compatibility with Fife CSP-01, DP-20, DP-30 and CDP-01 components.
- Built-in Ethernet Modbus TCP/IP base communication with a proprietary deterministic layer for guaranteed mode changes and genera control functions (MaxNet).
- Industrial protection grade: IP-54.
- CE certified.

## D-MAX OPERATOR INTERFACE

### Basic - Operator Interface (OI-B)

- Communicates directly to a single or dual drive D-MAX controller.
- 320x240 pixel QVGA Graphic LCD.
- Graphic operator interface, based upon function keys, symbols and plain text.
- Keypad featuring 6 Smart Function keys, 4 arrow keys for menu navigation, Page key, Enter key and Escape key.
- Panel mount with an IP-54 rating or wall mount with an IP-40 rating (bracket required).



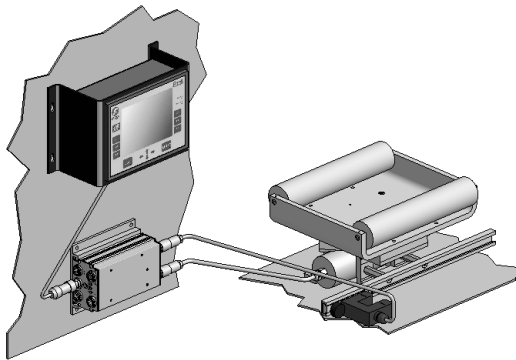
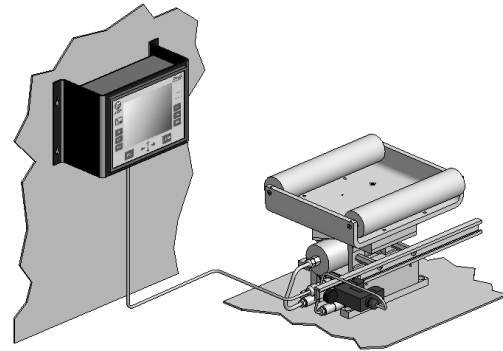
### Multi - guide and / or industrial protocol Operator Interface (OI-N)

- Same specifications as the Basic Operator Interface, featuring in addition:
  - 5 - port Ethernet switch for guide networking and / or communication uplink to further Operator Interface Panels (OI-N).
  - CompactCom port for communication with Programmable Logic Controllers (require optional Field Bus Adapter):  
DeviceNet, Modbus TCP, EtherNet/IP, Profibus, Profinet und ControlNet available,  
CC-Link and CANopen in preparation.



## Pre-wired, integrated Guiding System

- Fife is able to supply complete systems with all guiding components completely assembled, pre-wired and tested, saving time and money by simplifying the installation and start-up.
- The D-MAX controller slides out of the guide structure, providing easy access for trouble shooting and replacement if necessary.
- The D-MAX controller can be easily integrated into all guide types (Fife Offset Pivot Guide, Fife Kamberoller, Fife shifting systems in unwind or rewind applications).



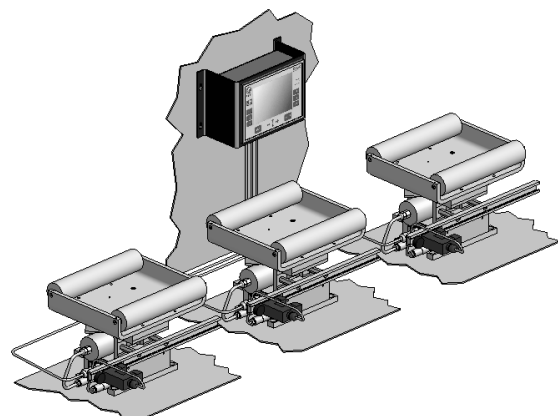
## Remote mounted Controller

- The Fife D-MAX controller and operator interface can also be supplied loose for customer mounting in the control cabinet or on the machine frame.
- Controller and operator interface can then be mounted remotely, depending upon the requirements of your application.
- The Fife D-MAX controller is as single- or dual-drive. The dual version allows two Fife guides of any type to be controlled from one remote mounted controller.
- Both the controller and operator interface can be supplied with remote mounting brackets that are designed for easy and quick installation.

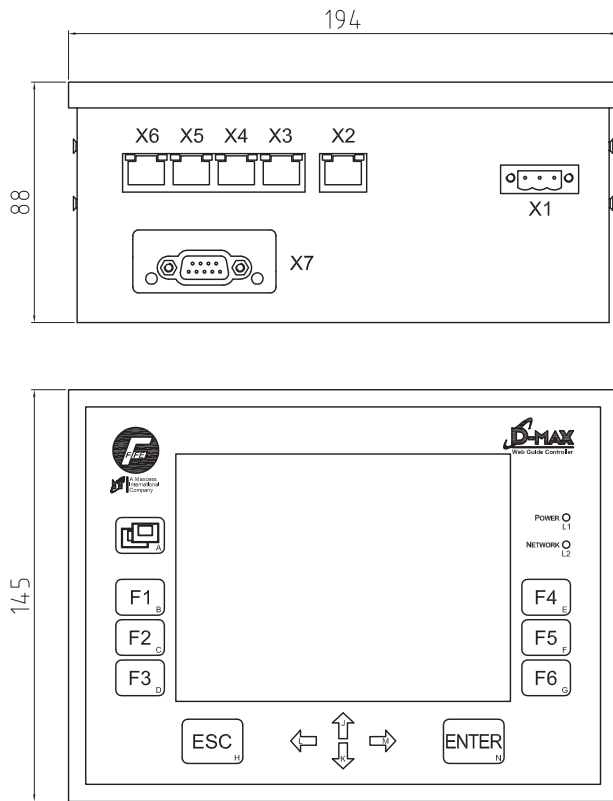
# D-MAX NETWORK-SPECIFICATIONS

## D-MAX Operator Interface - Networked

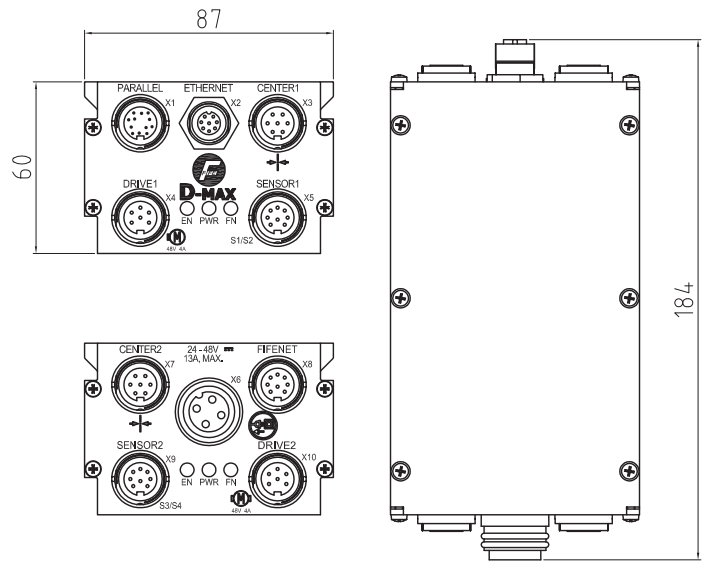
- **Ethernet Communications:**  
Ethernet at 100 Mbs base communication with an integrated 5 - port switch.
- **Controller Connectivity:**  
Up to 4 D-MAX Controllers with one uplink to an additional Operator Interface.
- **Network Communication:**  
Up to 32 devices in real-time connection.
- **Industrial Protocol Connectivity:**  
AnyBus CompactCom
  - Industrial Protocol Gateways:  
DeviceNet, Modbus TCP, EtherNet/IP, Profibus, Profinet, and ControlNet available,  
CC-Link and CANopen in preparation.



# FIFE D-MAX WEB GUIDING SYSTEMS



**D-MAX Operator Interface**



**D-MAX Controller**

## SYSTEM SELECTION

Controller	Mounting Typ	Description
D-MAX-1	I (Integrated) or R (Remote)	Single-drive controller with integrated pre-wired configuration or remote mounting (bracket required).
D-MAX-2	I (Integrated) or R (Remote)	Dual-drive controller with integrated pre-wired configuration or remote mounting (bracket required).
Operator Interface	Mounting Typ	Description
OI-B	B (Bezel) or W (Wall)	Basic Operator Interface for the control of one only D-MAX single- or dual-drive processor. Panel-mount or wall-mount (bracket required).
OI-N	B (Bezel) or W (Wall)	Network operator interface for controlling up to 4 D-MAX single- or dual-drive processor and uplink to a further Network operator interface. Bezel or wall mount bracket, complete with Ethernet switch for multi-guide operation and Compact-Com port for industrial protocol connectivity.

The D-MAX Controller and Operator Interface in any of the above configurations can be incorporated into any of the Fife guiding systems (Fife OPG, Fife Kamberoller, Fife Shifting in Unwind or Rewind applications).



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