

FOX SYSTEM

Fixed Speed Control System



FOX system platform is a flexible, configurable, and secure digital control solution designed for fixed-speed electric hoists or other motors. The system can accommodate up to 12 IAC1608 controllers (96 channels) in a plug-and-play manner, which means all devices are self-organizing and self-healing without user configuration. Via Ethernet, the system can be used on the Aurora console [GoatShow] for large-scale and complex scenarios.

Safety features include position monitoring, limit monitoring, phase sequence error detection, overload and underload protection, loss or reduction of the supply voltage detection, motor current monitoring, group halting, etc.

Specifically, IAC1608 and the EXTRA-T series fixed-speed hoist (D8+) and KiloCell digital loadcell can be used to easily create an EN17206 compliant systems for fixed-speed hoists or motors.

IAC 1608 Controller



Key Features

- Local controls on the front panel with 8x3-position travel direction switch (UP-OFF-DOWN). "GO" hold-to-run controls with a "LOCAL" button enabled, allow multiple units to be controlled by a single go button.
- Emergency stop meets SIL3 standards with dual power supply contactors, specifically featuring self-healing emergency stop connections.
- Power supply quality inspection includes automatic phase reversal detection, supply voltage monitoring, and power supply frequency assessment.
- Each pair of motors is equipped with 4 MCBs, and 16 direction contactors with interlocking and mirror contact feedback.
- Optional upgrades include Ethernet connectivity, position encoder integration, limit switch compatibility, and KiloCell connectivity.
- RCD protection and motor current protection are available.
- Each channel is equipped with a 7" IPS screen for feedback display.



Technical Specifications

- POWER SUPPLY:** one 5-pin 32A Red Ceeform plug on 2m trailing lead with 400VAC,32A 3-phase + neutral + earth 50~60Hz
- OUTPUTS:** 8 x CeeForm 400VAC 16A 3-phase+earth panel sockets
- DIMENSIONS:** 605 x 485 x 223mm, 4U 19"rack mountable
- WEIGHT:** 20~30kg
- ENVIRONMENT:** IP30, 0~50℃ , Natural air cooling



Handset

Key Features

- Capable of simultaneously controlling 16 or 32 devices
- Provide local reset functionality
- Equipped with local emergency stop functionality
- Support 100M Ethernet

Parameters

Category	IAC-HSC-16	IAC-HSC-32
Dimension (L×W×H)	310mm×246mm×80mm	500mm×246mm×80mm
Weight	2kg	3kg

IAC 1608 Main Control



Key Features

- Standard 2U chassis design, powered by 230VAC
- Provide 6 interfaces for handheld control boxes
- Provides 1 interface for an operating console
- Support up to 12 IAC1608 controllers, with a total
- The total LINK cascading cable length for the entire system can be up to 100 meters
- Support 100M Ethernet



**FIXED SPEED DIGITAL MOTOR CONTROL SYSTEM
(> 32 channels)**



HANDSET



CONSOLE



Loadcell



Encoder



Limit Switch



Max 8 x Hoist



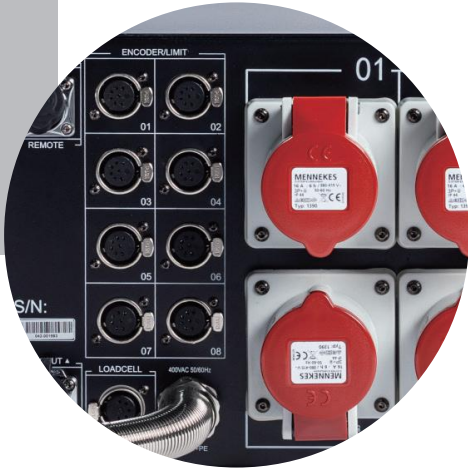
Max 96 Channel



Max 8 x Hoist



Max 12 x Controller



**Limits&Encoder 8x XLR-7M
Loadcell 1x XLR-5M**

FIXED SPEED DIGITAL MOTOR CONTROL SYSTEM (≤ 32 channels)

HANDSET



16 Channel



32 Channel

IAC 1608 CONTROLLER



Front



Rear

Max 4 x Controller



Limits&Encoder 8x XLR-7M
Loadcell 1x XLR-5M



Loadcell



Encoder



Limit Switch



Max 8 x Hoist



Max 32 Channel



Max 8 x Hoist