

POWERMOTION DS8 PRO AND PRO PLUS MOTION CONTROLLERS

Solid State Motor Controllers for 8 Direct or Low Voltage Control Hoists

SYSTEM COMPONENTS

2 Power models:

- **Direct Control** for Direct Control chain motors
- **Low Voltage Control** for Low Voltage Control chain motors

Each Power Type is available in 2 versions:

- **Pro** Full hoist control for typical applications
- **Pro Plus** As Pro version, plus Remote Connection, Link Connections and functionality, and 32 Amp 3-Phase 3Ph+N+Gr link-through

OVERVIEW

The PowerMotion DS8 Pro and Pro Plus Series of Solid State Motion Controllers are designed to the rigging industry's highest standards of safety, protection and reliability, providing every essential option for controlling standard electrical entertainment chain hoists.

Each DS8 Motion Controller can control up to eight Direct or Low Voltage Control chain hoists, and features a Solid State MCB per individual motor/channel plus adjustable maximum power output up to 9 Amps – an industry-leading output for hoists up to 4kW. The highest level of safety and protection is provided by the integrated PL D, ISO 13849-1, CWA 15902-1 and SIL2 compliant Emergency Stop System.

A CHOICE OF FOUR DS8 UNITS – TO SUIT YOUR APPLICATION

Each power model also comes in a choice of two versions – Pro and Pro Plus.

The 'Pro' version provides full hoist control for all typical professional rigging applications.

The 'Pro Plus' version adds total multi-unit flexibility: Remote connection (a dedicated Remote Controller handling up to eight DS8 units, totaling 64 motors/channels, will be available shortly), as well as Link connection and functionality (to operate more motors from one unit), and 32 Amp 3-Phase (3Ph+N+Gr) link-through.

Essential design features include automatic Input Phase Inversion correction (with phase presence shown on indicators), industrial grade construction including heavy duty toggle switches, buttons and output connectors, and full compliance with CE and all other relevant EU and industry standards.

The DS8's Group Safety Mode stops movement of all selected motors should one of them fail. The Pro version can be used with a remote control panel and can be linked together, allowing connected controllers to respond to the same GO button and to any of the Emergency Stop Buttons.



TECHNICAL DATA

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DS8 KEY FEATURES

- Individually adjustable 0-9A Solid State MCB, providing with circuit and thermal protection, per individual motor/channel for highest level of safety and protection
- Easily serviceable and low maintenance, thanks to the absence of moving parts
- Solid state reversing contactors to control hoist travel direction
- Highest level of E-stop system
- Remote/Link connection to connect up to 8 DS8 units via a dedicated remote control of up to 64 motors/channels (see separate data sheet)
- Further safety and protection of your hoists due to:
 - Group Safety Mode: If power fails at one hoist, all connected channels' power supply will be cut
 - Standard integrated automatic phase inversion correction
- Operational overview includes:
 - LED Status Indicators for travel direction per motor/channel
 - LED Status Indicators for incoming 3-phase power, incl. ground fault protection. No hoist will be activated, unless power supply is correct
 - Hoist connection detection with LED status indication (Low Voltage version only)
- Power on/off switch to switch on/off complete unit's power
- Build to last, with heavy duty industrial grade toggle switches, buttons and output connectors
- Limit switch detection. Group stops automatically when any limit is reached, with LED status indication (Low Voltage version only)
- Finger support bracket under 'Go!' button enables fast operation without operator strain

PRODUCT VERSIONS, OPTIONS AND ACCESSORIES

DS8DC Pro	8 way controller for Direct Control chain hoists
DS8DC Pro Plus	8 way controller for Direct Control chain hoists with Remote and Link ports
DS8LV Pro	8 way controller for Low Voltage control chain hoists
DS8LV Pro Plus	8 way controller for Low Voltage control chain hoists with Remote and Link ports

Pro Plus Options to replace 32 Amp 3-Phase link-through

- (A) RCD, to replace 32 Amp 3-Phase Link Through
- (B) 16 Amp Single Phase (Shuko or CEE Ph+N+Gr) connector

Accessories

DSR 8x8 Handheld Remote	To control up to 8 x DS8 Pro Plus units (64 chain hoists)
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SPECIFICATIONS

Motor controller for 8 Direct- or Low Voltage Control chain hoists	
3 Power Output connector options	(A) 2x (Direct Control) or 4x (Low Voltage) Socapex 419 multiconnector
	(B) 2x (Direct Control) or 4x (Low Voltage) Harting HAN16 multiconnector
	(C) 8x 16 Amp CEE 3-Phase 400V 3F+Gr connectors (Direct Control Only)
Power input connector	1x CEE 3-phase 400V 32A 3F+N+Gr connector
Remote and Link in/out	Remote and Link connectors (Plus versions only)
Emergency Stop	PL-D, ISO 13849-1 and SIL2
Internal Solid State MCB	Individual per motor
Enclosure	Powder coated steel
Weight (physical)	13.5 kg (DS8 DC Pro)
Dimensions (physical)	223mm(H) x 483mm(W) x 300mm(D), without 19" mounting brackets and rear connectors
Classification	CE compliant and built in accordance with applicable EU standards, incl. Machine Directive, Low Voltage Directive, CWA 15902-1, EMC, BGV-D8 and D8+ compliant to EN60204-32, EN60204-1, EN61000-6-2 and EN61000-6-4 standards
Ingress Protection	IP40
Operational power input range	360 to 420 Volt 3-Phase 3Ph-N-Gr, 50 Hertz
Operational temp. range	0 to 45 degrees (Celcius)

XLNT Advanced Technologies

XLNT Advanced Technologies supplies a complete series of road-ready audio, acoustics, motion control, lighting and data distribution products. These include the award-winning CyberHoist with InMotion 3D control system, XLNT PowerMotion power and emergency stop systems and XLNT DataMotion signal distribution equipment, along with dedicated accessories, such as truss brackets, cabling, racks, etc. PowerMotion motor controllers offer a simple and reliable control solution for any chain hoist in the rental and entertainment market. Using industry standard components and a rugged housing, XLNT Advanced Technologies offers a reliable and cost effective solution.

TECHNICAL DATA

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