

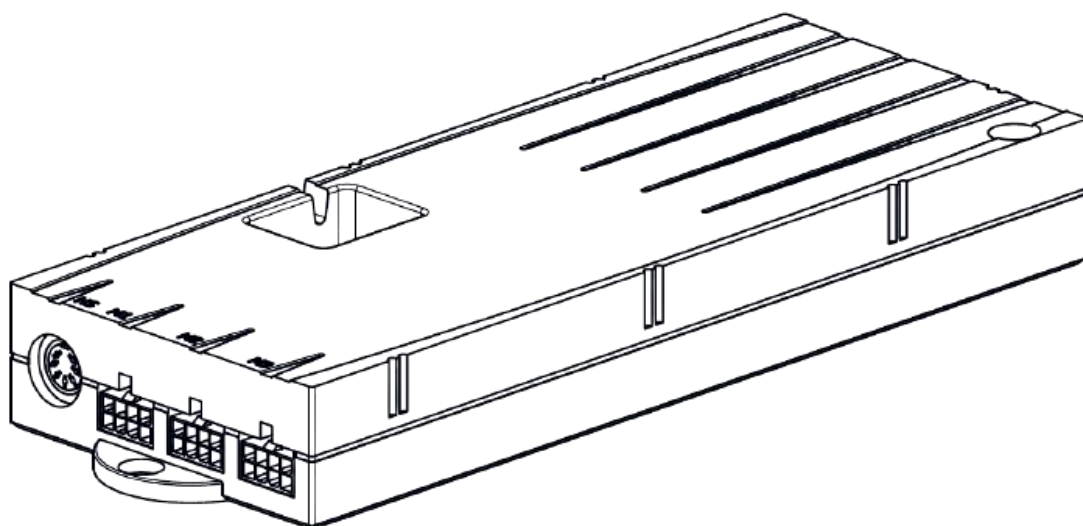


X2 TECHNOLOGY

A Phoenix Mecano Brand

Accessories

Control boxes



CONTROL BOXES	2
T-MODELS	3
T29 single	3
T27 2-synch	5
T39 3-synch	7
T39 4-synch	9
COMPACT-3	11
LP-MODELS	15
LP7 single	15
LP7 2-synch	17
B-MODELS	19

Control Boxes

The selection of energy efficient control boxes works seamless with our lifting columns. The chart shows an overview of the most common ones and their area of application. Customized control boxes can also be provided.

Single drives

2-Synchronic Drives

3-Synchronic Drives

4-Synchronic Drives

24V
>10A
(per column)

T19-241-001
(singel)
Max 15A (per column)



T27-339-002
(2-synchronic)
Max 15A (per column)



T39-337-003
(3-synchronic)
Max 15A (per column)



T39-337-004
(4-synchronic)
Max 15A (per column)



230V/
110V
<10A
(per column)

Compact-3
(singel)
Max 8A (per column)



Compact-3
(2-synchronic)
Max 8A (per column)



Compact-3
(3-synchronic)
Max 5A (per column)



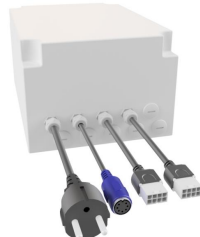
Dual Compact-3
(4-synchronic)
w/ link cable
Max 8A (per column)



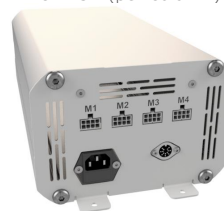
LP7-241-001
(singel) (230V only)
Max 15A (per column)



LP7-339-002
(2-synchronic) (230V only)
Max 15A (per column)



B3-337-003
(3-synchronic)
Max 15A (per column)



B3-337-004
(4-synchronic)
Max 15A (per column)



230V/
110V
>10A
(per column)

Compact-3
w/ split cable
(singel)
Max 16A (per column)



Dual Compact-3
w/ split cable & link cable
(2-synchronic)
Max 16A (per column)



Tripple Compact-3
w/ split cable & link cable
(3-synchronic)
Max 16A (per column)



Quadruple Compact-3
w/ split cable & link cable
(4-synchronic)
Max 16A (per column)



T19 Single drive - 15A/column

Description

Control box for a single lifting column. Cables included and mounted inside housing.

Features

Start/stop ramp

Speed settings

Current limit

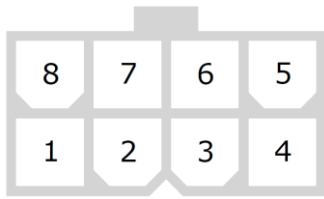
Pulse counter limits



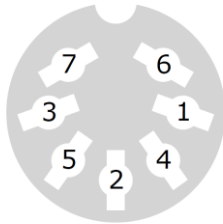
Technical data

Product name	T19-241-001
Type	Single Drive
Max current (per column)	15A
Supply voltage	0 to 35Vdc (max. peak 40Vdc) Under voltage shut down 8V, start at 9V
Motor current	cont. max 15A peak 30A
PWM frequency	2kHz
Current limit	1 to 24A
Operating temp	-40 to 60°C
Housing size	130x80x30mm
Connector A	JS-1149-08 Female (Lifting Column)
Connector B	Loose ends or Power cable EU/US (10-35V)
Connector C	DIN 45329 Female (Controller)
Cable length	1m
IP Class	IP 65

Connectors

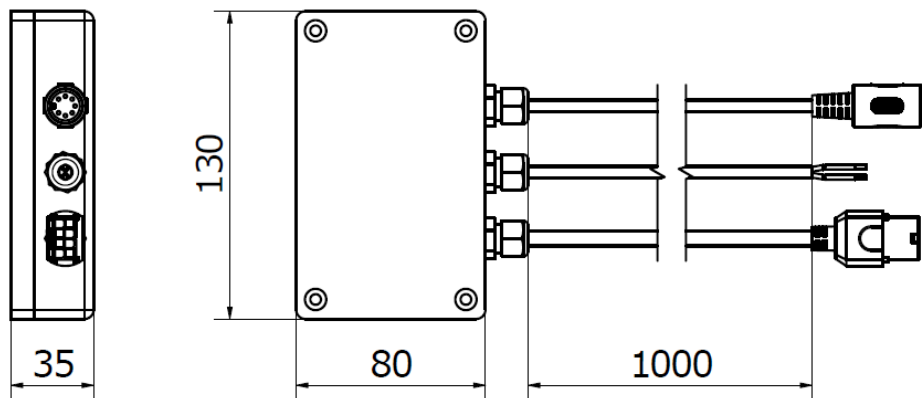


Connector A	Function
1	Hall 90°
2	+5V
3	Not connected
4	Motor+
5	Hall 0°
6	Not connected
7	GND
8	Motor-



Connector C	Function
1	Not connected
2	Not connected
3	FW
4	Not connected
5	BW
6	Not connected
7	+5V
Shell	Not connected

Technical drawing



Compatible controllers



HSX Control



RF Remote



HS Proline



Foot switch

Cables

Power cables

<i>LOG-CBL-PWK - 1 m EU</i>	<i>LOG-CBL-MOT-ELS2-1,2 - 1,2 m</i>	<i>TEC-2022-012 - 2 m</i>
<i>LOG-CBL-PWK-US-SJT- 1 m US</i>	<i>TEC-2022-005 - 4 m</i>	<i>TEC-2022-029 - 6 m</i>

Motor extension cables

T27 2-Synchronic drive - 15A/column

Description

Control box for two synchronous lifting columns.
Cables included and mounted inside housing.

Features

Start/stop ramp

Speed settings

Current limit

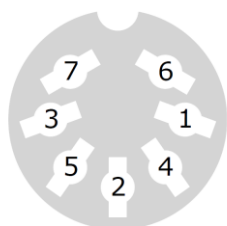
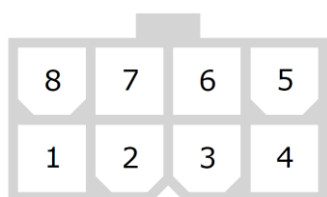
Pulse counter limits



Technical data

Product name	T27-339-002
Type	2-Synchronic Drive
Max current (per column)	15A
Supply voltage	12 to 25Vdc (max. peak 40Vdc) Under voltage shut down 8V, start at 10V
Idle current	15mA
Motor output current	2 x 10A cont. or 2 x 20A peak (at 25% duty cycle at 2kHz) 2 x 6A cont or 2 x 15A peak (at 25% duty cycle at 16kHz)
PWM frequency	2kHz/16kHz
Current limit	1 to 25A
Operating temp	-20 to 60°C
Housing size	130x130x60mm
Connector A & B	JS-1149-08 Female (Lifting Column)
Connector C	Loose ends or Power cable EU/US (10-35V)
Connector D	DIN 45329 Female (Controller)
Cable length	1m
IP Class	IP 65

Connectors



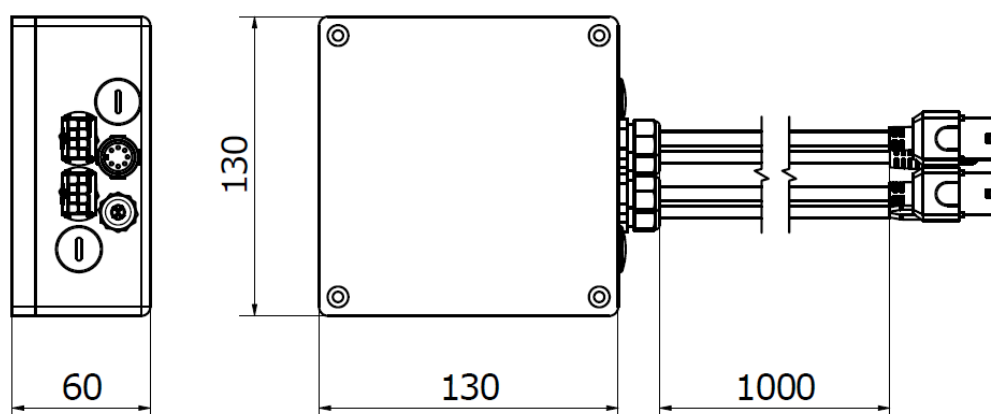
Connector A & B

Connector A & B	Function
1	Hall 90°
2	+5V
3	Not connected
4	Motor+
5	Hall 0°
6	Not connected
7	GND
8	Motor-

Connector D

Connector D	Function
1	Not connected
2	Not connected
3	FW
4	Not connected
5	BW
6	Not connected
7	+5V
Shell	Not connected

Technical drawing



Compatible controllers



HSX Control



RF Remote



HS Proline



Foot switch

Cables

Power cables

Motor extension cables

LOG-CBL-PWK - 1 m EU	LOG-CBL-MOT-ELS2-1,2 - 1,2 m	TEC-2022-012 - 2 m
LOG-CBL-PWK-US-SJT- 1 m US	TEC-2022-005 - 4 m	TEC-2022-029 - 6 m

T39 3-Synchronic drive - 15A/column

Description

Control box for three synchronous lifting columns.
Cables included and mounted inside housing.

Features

Start/stop ramp

Speed settings

Current limit

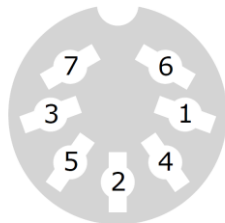
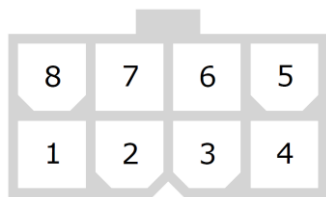
Pulse counter limits



Technical data

Product name	T39-337-003
Type	3-Synchronic Drive
Max current (per column)	15A
Supply voltage	10-35V (undervoltage shutdown 8V, overvoltage limit 38V)
Idle current	< 20mA
Motor current at duty cycle	(2kHz/16kHz) 4x8A/4x4A at continuous use, 4x12A/4x5A at duty cycle 25%, 4x15A/4x8A at duty cycle 10%, 4x25A max. in star
PWM frequency	2kHz or 16kHz
Current limit	1-25A
Operating temp	-40 to 60°C
Housing size	180x130x60mm
Connector A, B & C	JS-1149-08 Female (Lifting Column)
Connector D	Loose ends or Power cable EU/US (10-35V)
Connector E	DIN 45329 Female (Controller)
Cable length	1m
IP Class	65

Connectors



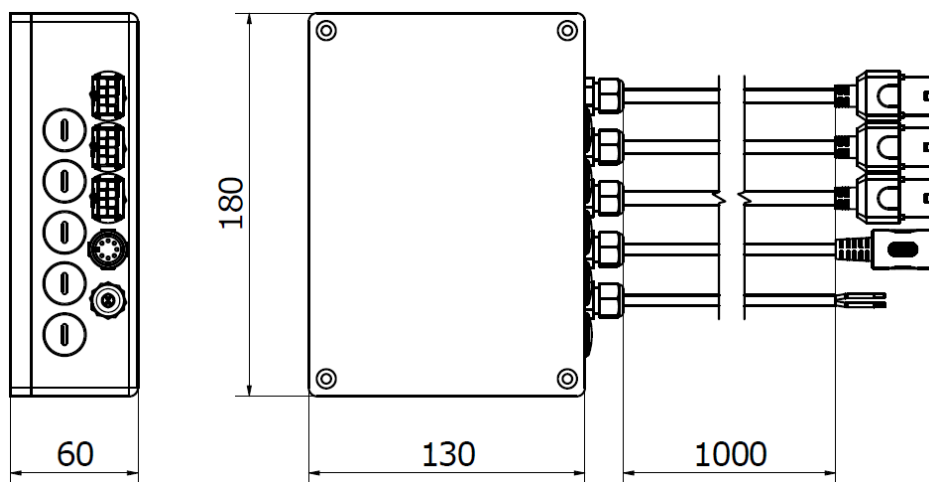
Connector A, B & C

Function	
Hall 1	1
+5V	2
Magnetic brake-	3
Motor+	4
Hall 2	5
Magnetic brake+	6
GND	7
Motor-	8

Connector D

Function	
Not connected	1
Not connected	2
FW	3
Not connected	4
BW	5
Not connected	6
+5V	7
Not connected	Shell

Technical drawing



Compatible controllers



HSX Control



RF Remote



HS Proline



Foot switch

Cables

Power cables

Motor extension cables

LOG-CBL-PWK - 1 m EU	LOG-CBL-MOT-ELS2-1,2 - 1,2 m	TEC-2022-012 - 2 m
LOG-CBL-PWK-US-SJT- 1 m US	TEC-2022-005 - 4 m	TEC-2022-029 - 6 m

T39 4-Synchronic drive - 15A/column

Description

Control box for four synchronous lifting columns.
Cables included and mounted inside housing.

Features

Start/stop ramp

Speed settings

Current limit

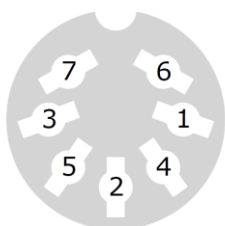
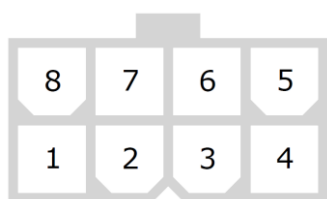
Pulse counter limits



Technical data

Product name	T39-337-004
Type	4-Synchronic Drive
Max current (per column)	15A
Supply voltage	10-35V (undervoltage shutdown 8V, overvoltage limit 38V)
Idle current	< 20mA
Motor current at duty cycle	(2kHz/16kHz) 4x8A/4x4A at continuous use, 4x12A/4x5A at duty cycle 25%, 4x15A/4x8A at duty cycle 10%, 4x25A max. in star
PWM frequency	2kHz or 16kHz
Current limit	1-25A
Operating temp	-40 to 60°C
Housing size	180x130x60mm
Connector A, B, C & F	JS-1149-08 Female (Lifting Column)
Connector D	Loose ends or Power cable EU/US (10-35V)
Connector E	DIN 45329 Female (Controller)
Cable length	1m
IP Class	65

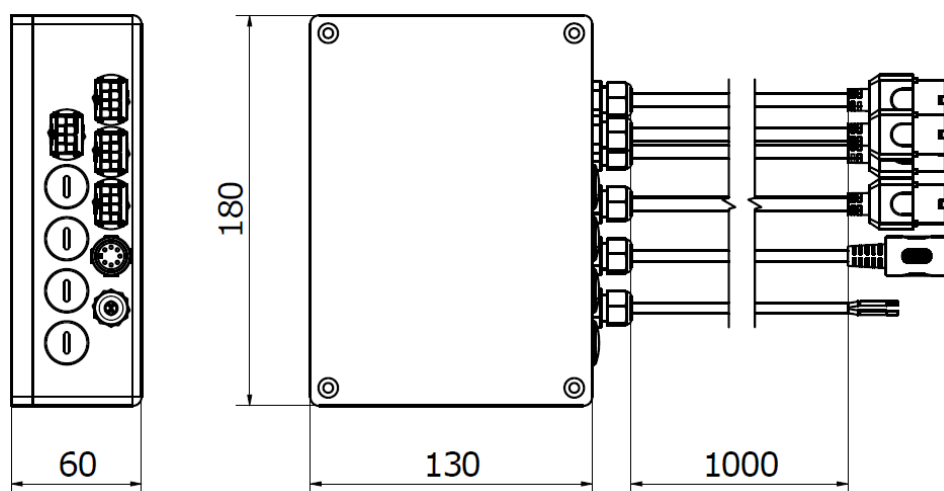
Connectors



Connector A, B, C & F	Function
1	Hall 90°
2	+5V
3	Not connected
4	Motor+
5	Hall 0°
6	Not connected
7	GND
8	Motor-

Connector E	Function
1	Not connected
2	Not connected
3	FW
4	Not connected
5	BW
6	Not connected
7	+5V
Shell	Not connected

Technical drawing



Compatible controllers



HSX Control



RF Remote



HS Proline



Foot switch

Cables

Power cables

LOG-CBL-PWK - 1 m EU	LOG-CBL-MOT-ELS2-1,2 - 1,2 m	TEC-2022-012 - 2 m
LOG-CBL-PWK-US-SJT- 1 m US	TEC-2022-005 - 4 m	TEC-2022-029 - 6 m

Motor extension cables

Description

The Compact-3 control box can be parallel linked and programmed to control one to four lifting columns with currents of 5, 8 or 16A for each column. Programming is done with ACS-CB-USBPROG-cable.



Features

Start/stop ramp
Current limit
Memory positions

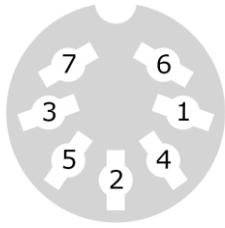
Speed settings
Pulse counter limit

Technical data

Product name	EU: COMPACT-e-3-EU US: COMPACT-e-3-US
Type	Single or 2-, 3- & 4-synchronic drive 5- to 12-synchronic on request
Max current (per motor exit)	8A
Supply voltage	EU: 230V / 50Hz US: 115V / 50-60Hz
Duty cycle	<i>Hi Power cycle:</i> 20s up, 20s down, pause 9min. <i>Normal cycle 1/9:</i> 30s up, 30s down, pause 9min. <i>Normal cycle 2/18:</i> 2min move, pause 18 min.
Output	360VA/24V
Operating voltage	5VDC $\pm 10\%$ 250mA
Standby primary power	<0,3W
Operating temp	0-30°C
Housing size	264x103x37mm
Weight	598g
Connector HS	DIN 45329 Female (Controller)
Connector M1, M2, M3	MOLEX MiniFit Jr., 8pin Female (Lifting Column)
Connector Sync	MOLEX MicroFit 3.0, 8pin Female (Linking)
Standards	EU: EN60335-1, EN1000-6-3/2 & -3-2/3. US: UL 60950-1 Australia: IEC 60335-1
IP Class	IP 20

For parallel linking possibilities, see chart on page 13

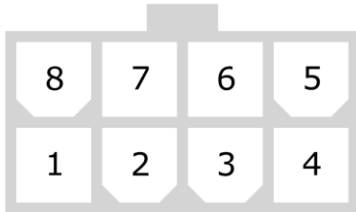
Connectors



Connector HS

Function

1	RxD
2	HS3
3	HS1
4	HS4
5	HS2
6	TxD
7	+5V
Shell	GND



Connector M1, M2, M3

Function

1	Hall1
2	+5V
3	Limit Switch 2
4	Motor+
5	Hall 2, Limit Switch 1
6	SYN
7	GND
8	Motor-

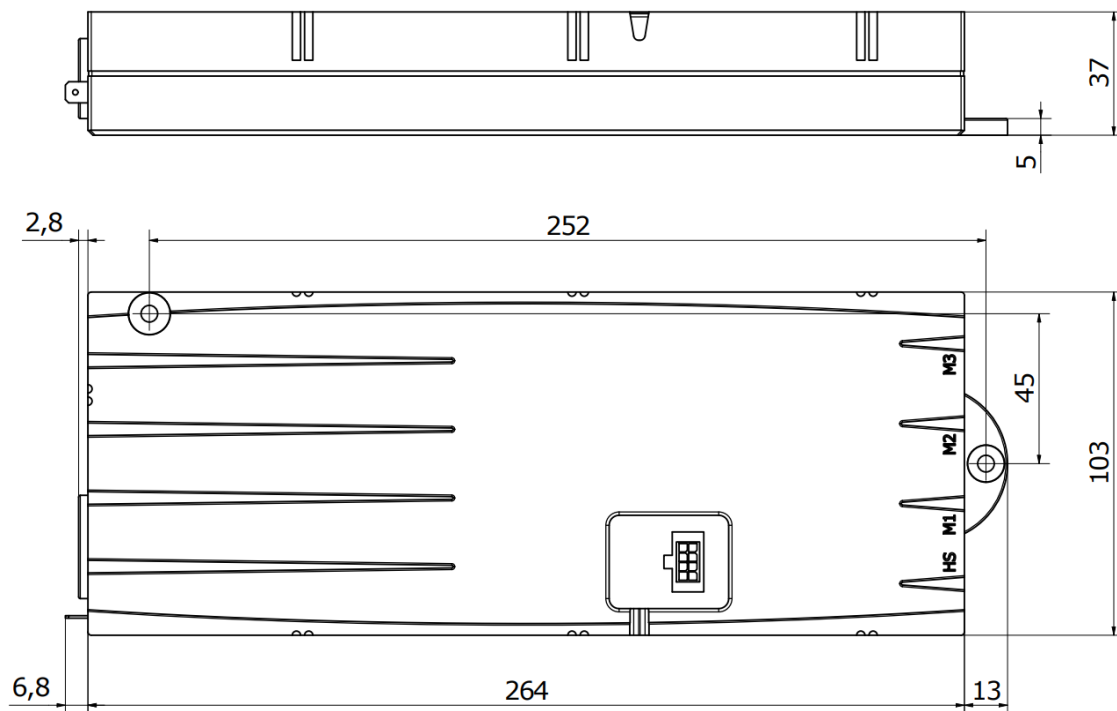


Connector Sync

Function

1	RxD
2	GND
3	Signal 3
4	Signal 4
5	Signal 2
6	Signal 1
7	+5V
8	TxD

Technical drawing



Up to 8A per column

16A per column

Single Drive

Max 8A/column

Max 16A/Column w/ split cable



Max 8A/column

Max 16A/Column w/ split cable & link cab

2-Synchronous Drives



Max 5A/column

Max 16A/Column w/ split cable & link cable

3- Synchronous Drives



Max 8A/Column w/ link cable

Max 16A/Column w/ split cable & link cable

4- Synchronous Drives



Compatible controllers



HSX Control



HSU Control



RF Remote



RF Remote



HS Proline

Cables

Power cables	Motor extension cable 6/8-pin	Motor extension cable 8/8-pin	Link cable	Other cables
<i>LOG-CBL-PWK</i> - 1 m EU	<i>LOG-CBL-MOT- KTT-BASIC</i> - 4 m	<i>LOG-CBL-MOT- ELS2-1,2</i> - 1,2 m	<i>CBL-HT-SYNC-500</i> - 0,5 m	<i>ACS-CB-USBPROG</i> - Programming cable
<i>LOG-CBL-PWK-US-SJT</i> - 1 m US	<i>3122.53-02</i> - 1,75 m	<i>TEC-2022-012</i> - 2 m	<i>LOG-CBL-HT-SYNC- 1500</i> - 1,5 m	<i>0500-025-1</i> - Split cable
		<i>TEC-2022-005</i> - 4 m		
		<i>TEC-2022-029</i> - 6 m		

LP7 Single drive - 15A/column

Description

Control box for one lifting columns. Cables included and mounted inside housing. Only for 230V.

Features

Start/stop ramp

Speed settings

Current limit

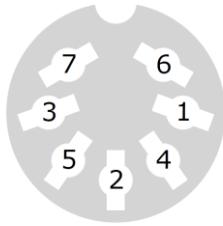
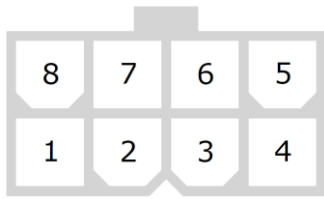
Pulse counter limits



Technical data

Product name	LP7-241-001
Type	Single Drive
Max current (per column)	15A
Supply voltage	230VAC/50Hz (700VA)
Motor current	cont. max 15A peak 30A
PWM frequency	2kHz
Current limit	1 to 24A
Operating temp	-40 to 60°C
Housing size	180x180x103mm
Connector A	Power cable EU
Connector B	DIN 45329 Female (Controller)
Connector C & D	JS-1149-08 Female (Lifting Column)
Cable length	1m
IP Class	65

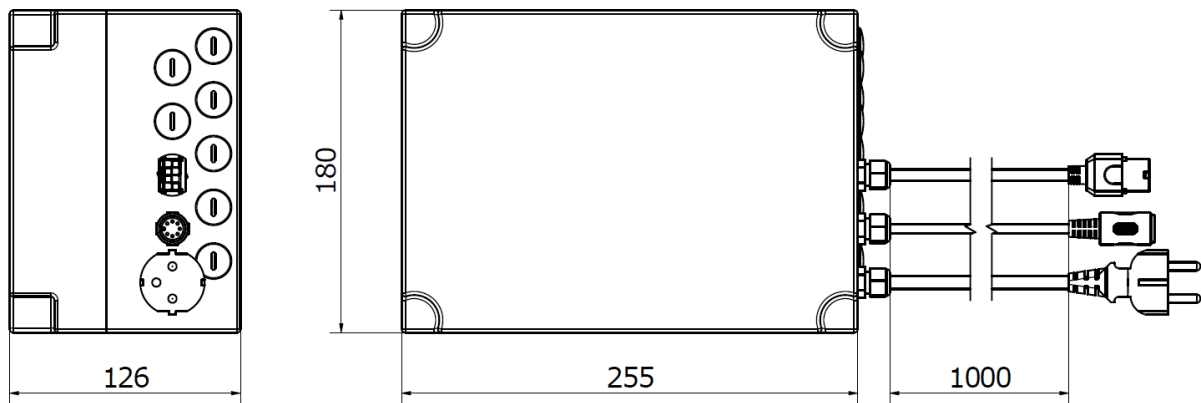
Connectors



Connector C & D	Function
1	Hall 90°
2	+5V
3	Not connected
4	Motor+
5	Hall 0°
6	Not connected
7	GND
8	Motor-

Connector B	Function
1	Not connected
2	Not connected
3	FW
4	Not connected
5	BW
6	Not connected
7	+5V
Shell	Not connected

Technical drawing



Compatible controllers



HSX Control



RF Remote



HS Proline



Foot switch

Cables

Power cables

<i>LOG-CBL-PWK - 1 m EU</i>	<i>LOG-CBL-MOT-ELS2-1,2 - 1,2 m</i>	<i>TEC-2022-012 - 2 m</i>
<i>LOG-CBL-PWK-US-SJT- 1 m US</i>	<i>TEC-2022-005 - 4 m</i>	<i>TEC-2022-029 - 6 m</i>

Motor extension cables

LP7 2 synchronic drive - 15A/column

Description

Control box for two lifting columns. Cables included and mounted inside housing. Only for 230V.

Features

Start/stop ramp

Speed settings

Current limit

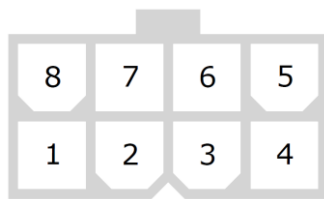
Pulse counter limits



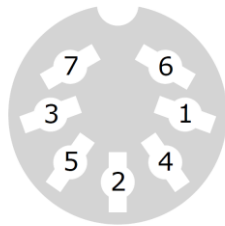
Technical data

Product name	LP7-339-002
Type	2-Synchronic Drive
Max current (per column)	15A
Supply voltage	230VAC/50Hz (700VA)
Motor output current	2x15A 10% duty
Operating temp	-20 to 60°C
Housing size	255x180x126mm
Connector A	Power cable EU
Connector B	DIN 45329 Female (Controller)
Connector C & D	JS-1149-08 Female (Lifting Column)
Cable length	1m
IP Class	65

Connectors

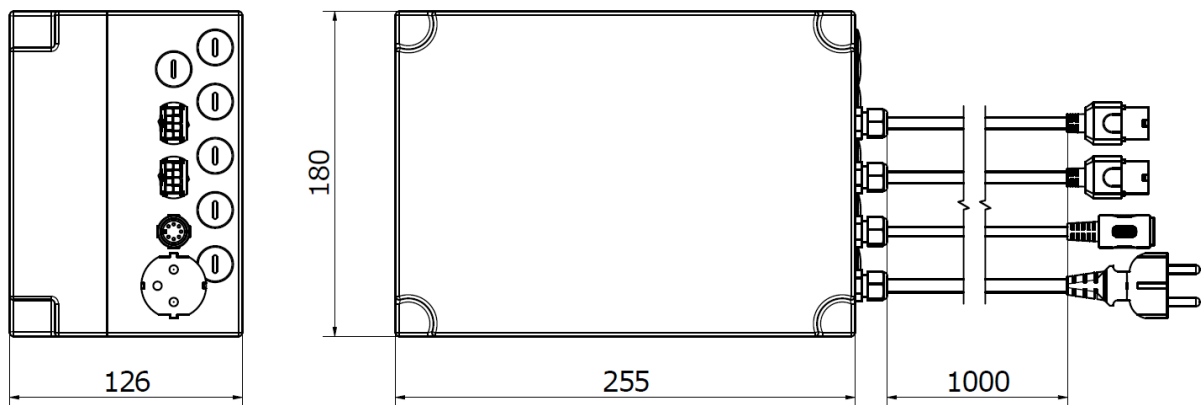


Connector C & D	Function
1	Hall 90°
2	+5V
3	Not connected
4	Motor+
5	Hall 0°
6	Not connected
7	GND
8	Motor-



Connector B	Function
1	Not connected
2	Not connected
3	FW
4	Not connected
5	BW
6	Not connected
7	+5V
Shell	Not connected

Technical drawing



Compatible controllers



HSX Control



RF Remote



HS Proline



Foot switch

Cables

Power cables

LOG-CBL-PWK - 1 m EU	LOG-CBL-MOT-ELS2-1,2 - 1,2 m	TEC-2022-012 - 2 m
LOG-CBL-PWK-US-SJT- 1 m US	TEC-2022-005 - 4 m	TEC-2022-029 - 6 m

Motor extension cables

Description

Control box for three or four synchronous lifting columns. Housing in aluminium.

Features

Start/stop ramp

Speed settings

Current limit

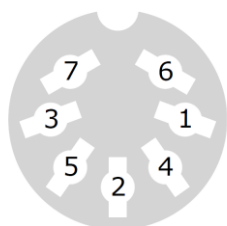
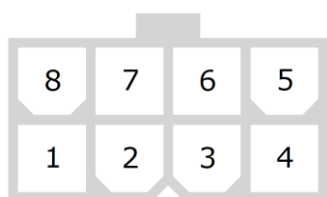
Pulse counter limits



Technical data

Product name	3-synch: B3-337-003 4-synch: B3-337-004
Type	3 or 4-Synchronic Drive
Max current (per column)	15A
Supply voltage	115-240V/50-60Hz (2000VA)
Idle current	< 20mA
Motor output current	4x8A/4x4A at continuous use, 4x12A/4x5A at duty cycle 25%, 4x15A/4x8A at duty cycle 10%, 4x25A max. in star
PWM frequency	2kHz or 16kHz
Current limit	1-25A
Operating temp	-40 to 60°C
Housing size	368x192x130mm
Connector M1-M4	JS-1149-08 Female (Lifting Column)
Connector D	Power cable EU/US
Connector E	DIN 45329 Female (Controller)
IP Class	IP 20

Connectors



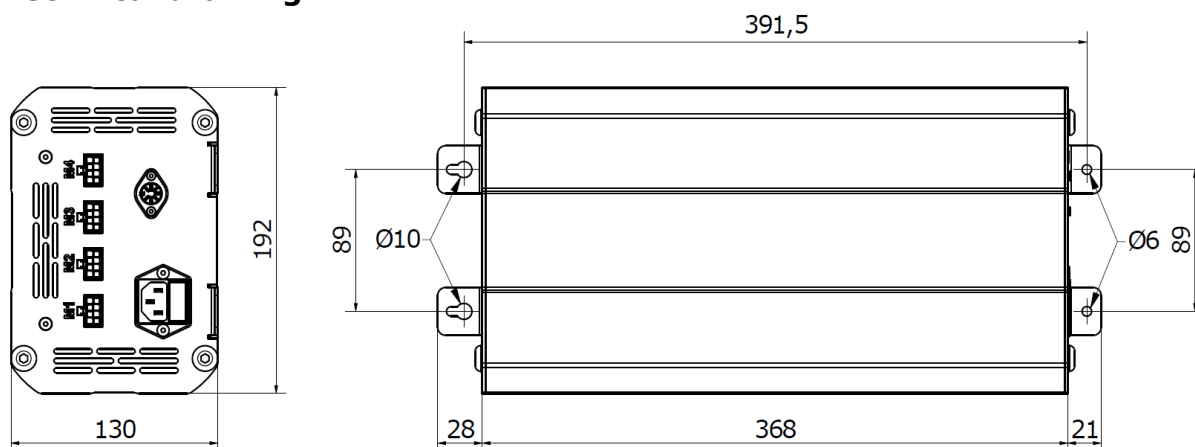
Connector M1-M4

Connector M1-M4	Function
1	Hall 1
2	+5V
3	Magnetic brake-
4	Motor+
5	Hall 2
6	Magnetic brake+
7	GND
8	Motor-

Connector E

Connector E	Function
1	Not connected
2	Not connected
3	FW
4	Not connected
5	BW
6	Not connected
7	+5V
Shell	Not connected

Technical drawing



Compatible controllers



HSX Control



RF Remote



HS Proline



Foot switch

Cables

Power cables

Motor extension cables

LOG-CBL-PWK - 1 m EU	LOG-CBL-MOT-ELS2-1,2 - 1,2 m	TEC-2022-012 - 2 m
LOG-CBL-PWK-US-SJT- 1 m US	TEC-2022-005 - 4 m	TEC-2022-029 - 6 m

X2 Technology – The Customizer

Before use of products, see general terms & conditions and operating manuals. Lifetime and suitability are depending on application and must therefore be tested by each user. Specifications subject to change without prior notice. All components in this datasheet are property of X2 Technology and may therefore not be used without permission.

Copyright © X2 Technology 2021.07.

Phoenix Mecano AB



+46 470 717950



info@x2technology.se



www.x2technology.se



Made in Sweden



X2 TECHNOLOGY

A Phoenix Mecano Brand