

Technical  
guide

CONTROLLERS

STAGEMAKER<sup>®</sup>

<b>CONTENTS</b>		
		<b>Page</b>
<b>1</b>	<b>STAGEMAKER Controllers single box (for hoist type A)</b>	<b>3</b>
<b>2</b>	<b>STAGEMAKER Controllers ECO (for hoist type A)</b>	<b>6</b>
<b>3</b>	<b>STAGEMAKER Controllers RIGGER (for hoist type A)</b>	<b>9</b>
<b>4</b>	<b>STAGEMAKER Controllers THEATRE (for hoist type B)</b>	<b>12</b>
<b>5</b>	<b>Options on STAGEMAKER Controllers</b>	<b>17</b>
<b>6</b>	<b>Flight cases for controlers</b>	<b>28</b>

## 1 STAGEMAKER Controllers single box – Yellow box (for hoist type A)

### 1.1 Description

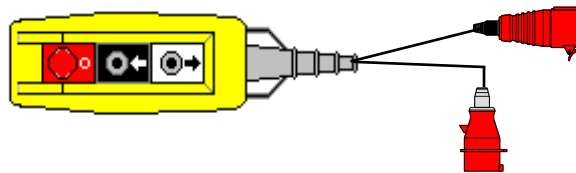
These controllers are supplied with CE connectors M/FM fitted on 0,5m cable. It has to be located between the power cable and the hoist connector.

- direct control version A
- controller for two hoists has separate up/down buttons
- up and down buttons, direct action
- maximum power 1.8 kW
- no pre-selection
- emergency button

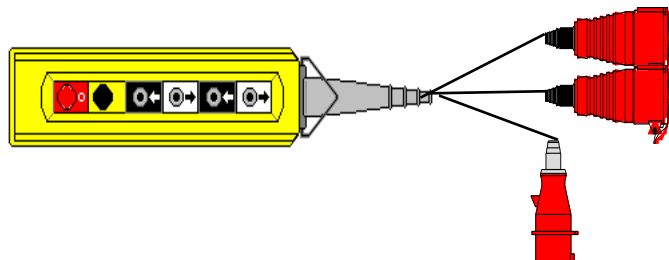
### 1.2 Range

Type	Designation	Connectors
Bab400V1 (52292669)	Controller for one single hoist	P17 CE connector (M/FM 4p CE)
Bab400V2 (52298813)	Controller for two hoists	P17 CE connector (M/2FM 4p CE)

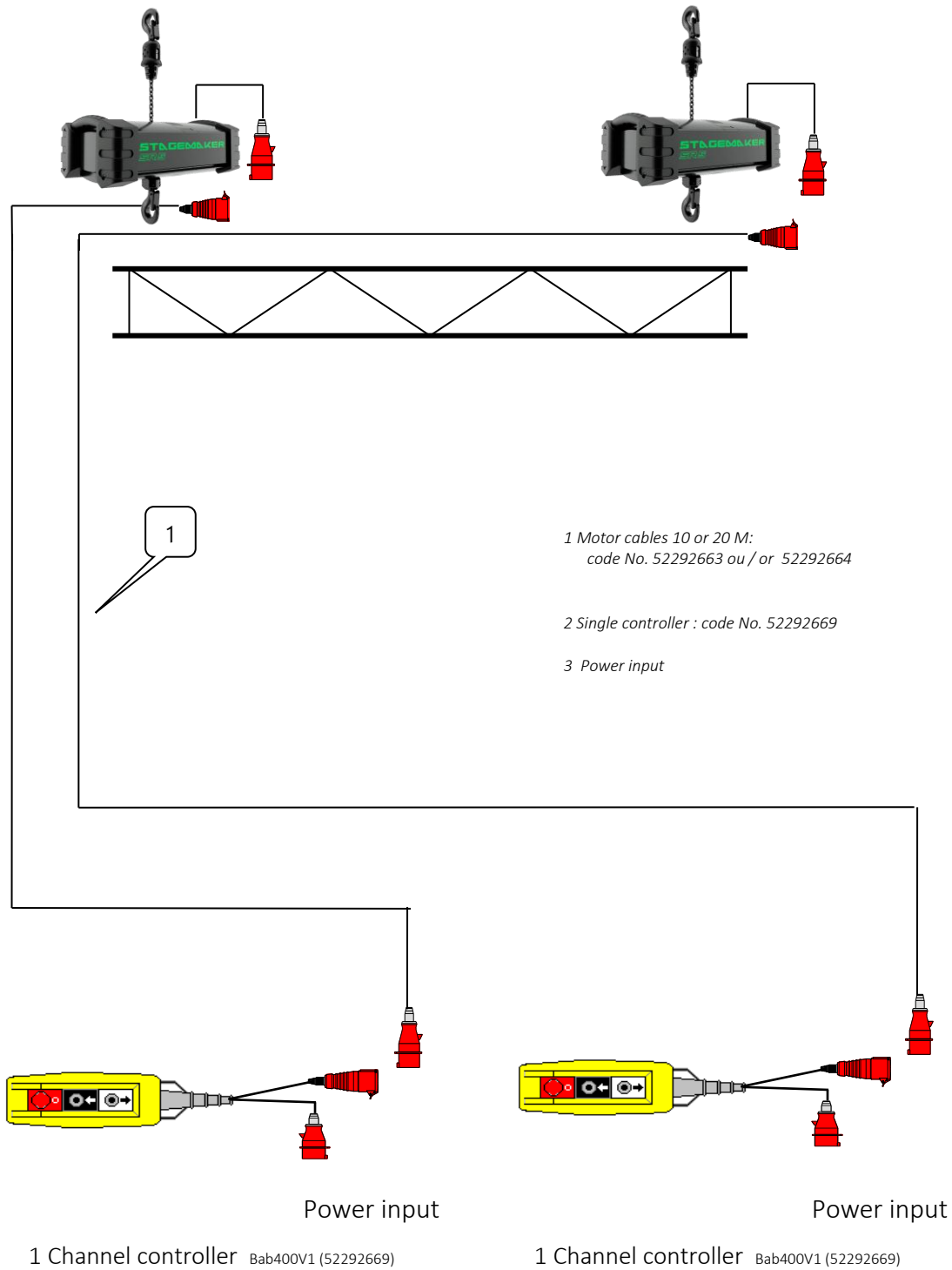
Controller for one hoist



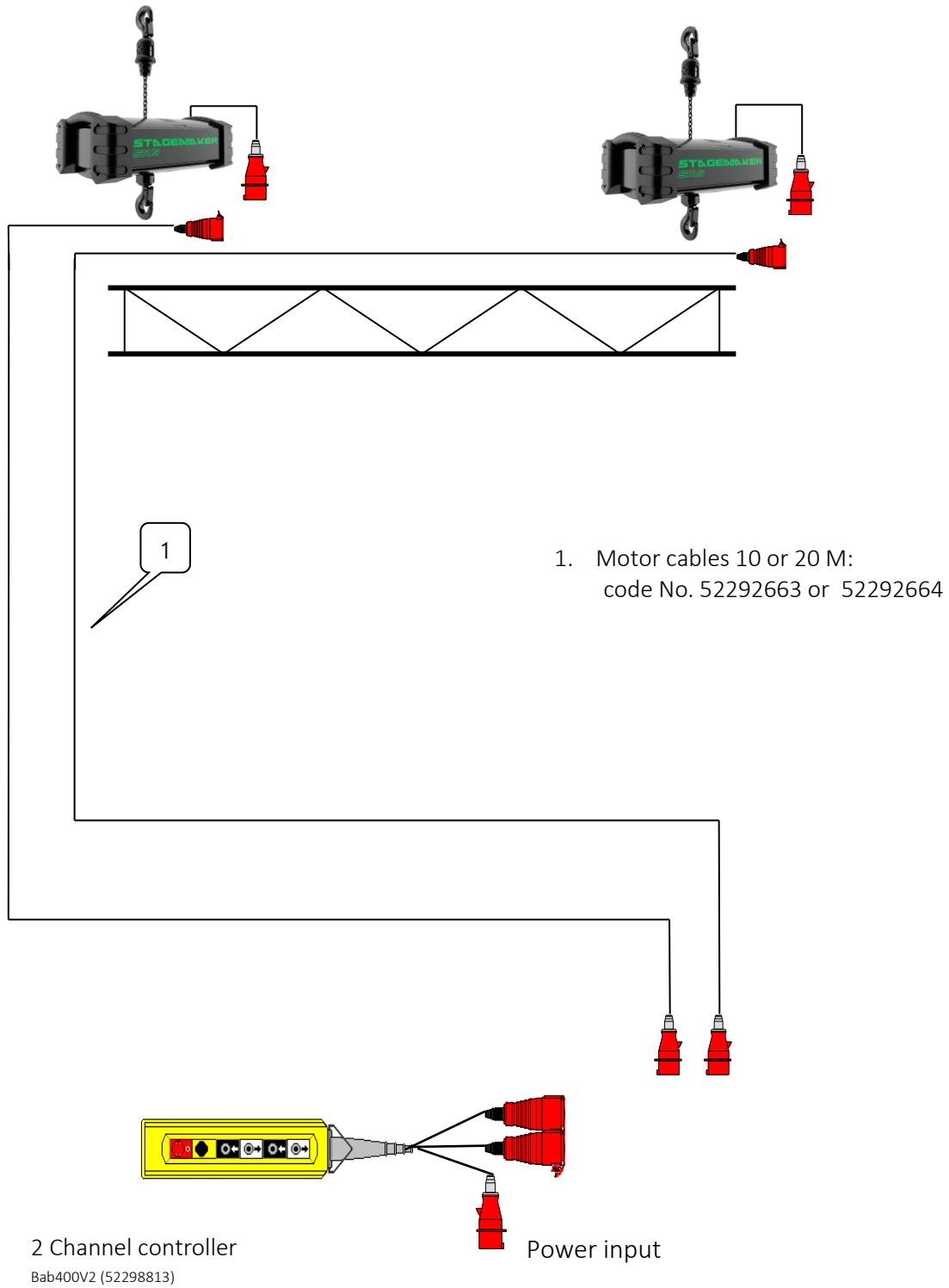
Controller for two hoist



### 1.3 Example of use with two SINGLE CONTROLLER



### 1.5 Example of use DOUBLE CONTROLLER



## 1 STAGEMAKER Controllers ECO

### 1.1 Description

- Power supply: 400/415 V 3PH+N – 50/60Hz.
- Power-in plug 32 A 5p CE with phase reversing
- Phase monitoring indicating lamp.
- Multi 16 connector output for group of 4 motors  
And in addition 4 plug CE form 4p 16A out for each motor
- Short circuit protections : power & control circuit
- Thermal protection per group of 4 motors
- Max. power per channel :1,8 kW / 400v 3 Ph
- Metallic case
- Black paint

Options:  
Flight case

### 1.2 Front face



### 1.3 Back side

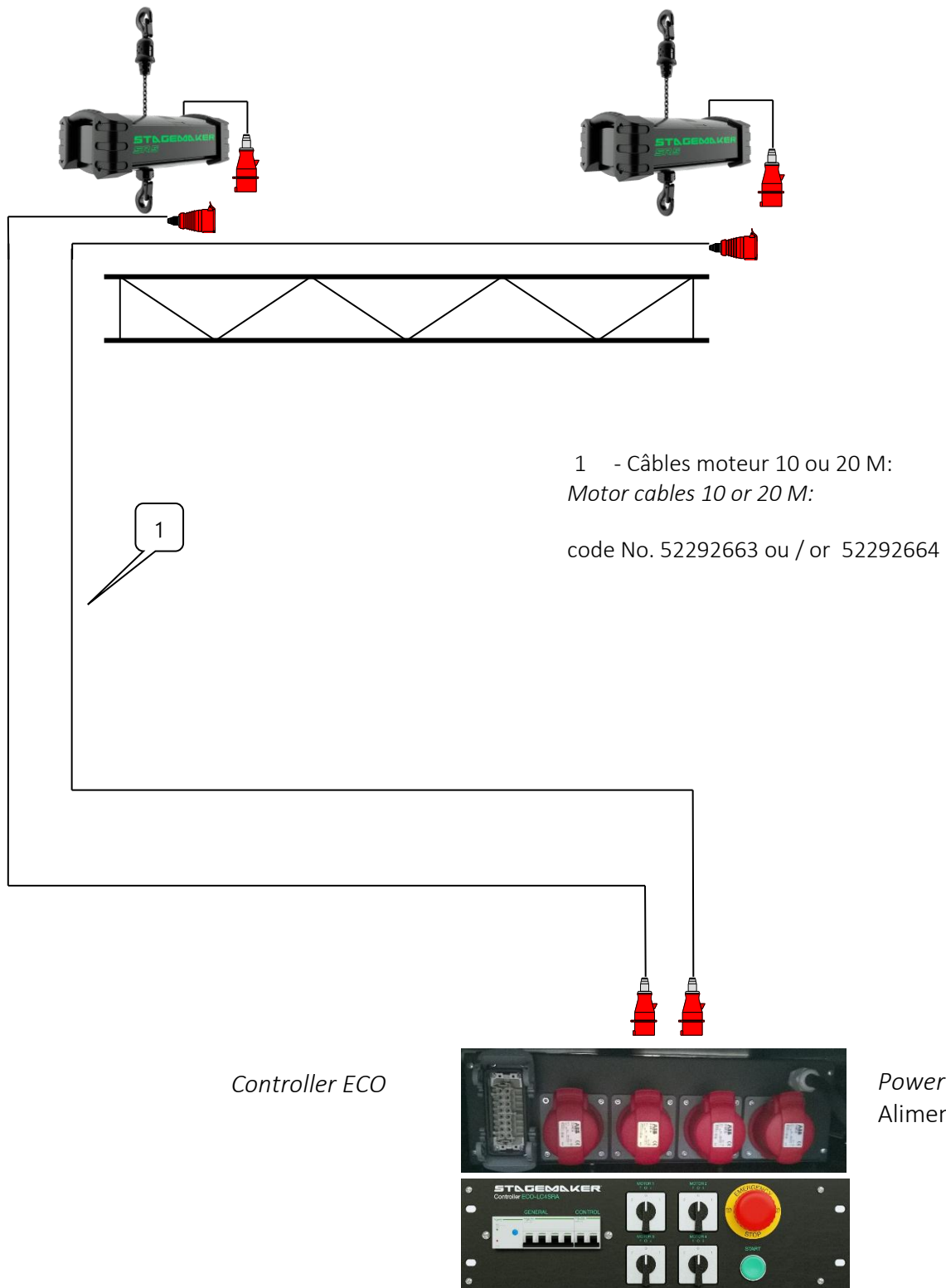


- 1) Connection hoist 1 to 4.CE Plug P17 4p 16A
- 2) Connection hoist group 1 to 4. Multiconnector 16 poles
- 3) Power supply with CE plug P17 5P 32A 400V.

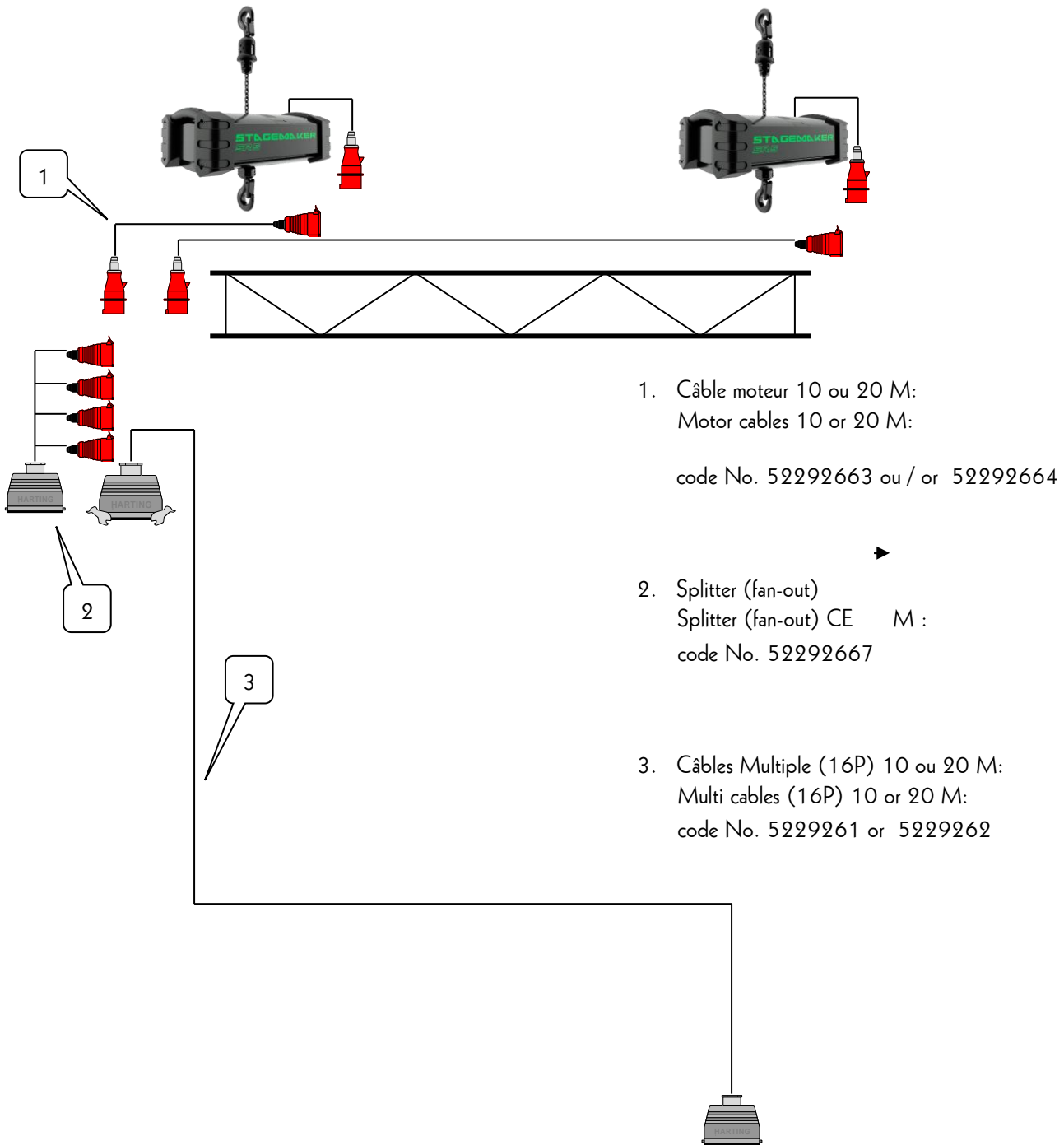
### 1.4 Dimensions

Type	Dimensions
ECO – LC4SRA (52864023)	19" rack x 3 U 482,6 x 130,98

### 1.5 Example of use



## 2.6 Example of use



Controller ECO



Power input  
Alimentation



## 2 STAGEMAKER Controllers RIGGER

### 2.1 STAGEMAKER CONTROLLERS RIGGER Suitcase

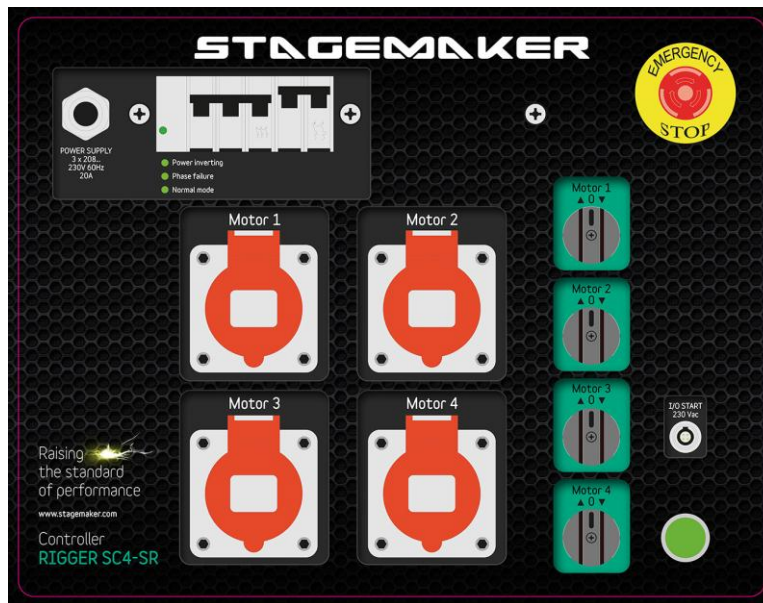
#### 2.1.1 Description

- Controller deliver in strong ABS black suitcase (Pelicase or Stormcase type)
- Phase detection and automatic correction of the phases
- Power supply: 400/ 415 V 3PH+N – 50/60Hz.
- Power-in plug 32 A 5p CE
- CE form 4p 16A out for each motor
- Short circuit protections : power & control circuit
- Thermal protection per group of 4 motors
- Master/slave mode: Link facility for two or more controllers
- Max. power per channel :1,8 kW / 400v 3 Ph

Options:

Master slave connection (cable)

#### 2.1.2 Front face 4 channels



#### 2.1.3 Front face 8 channels



### 2.1.4 Connection 4 / 8 channels



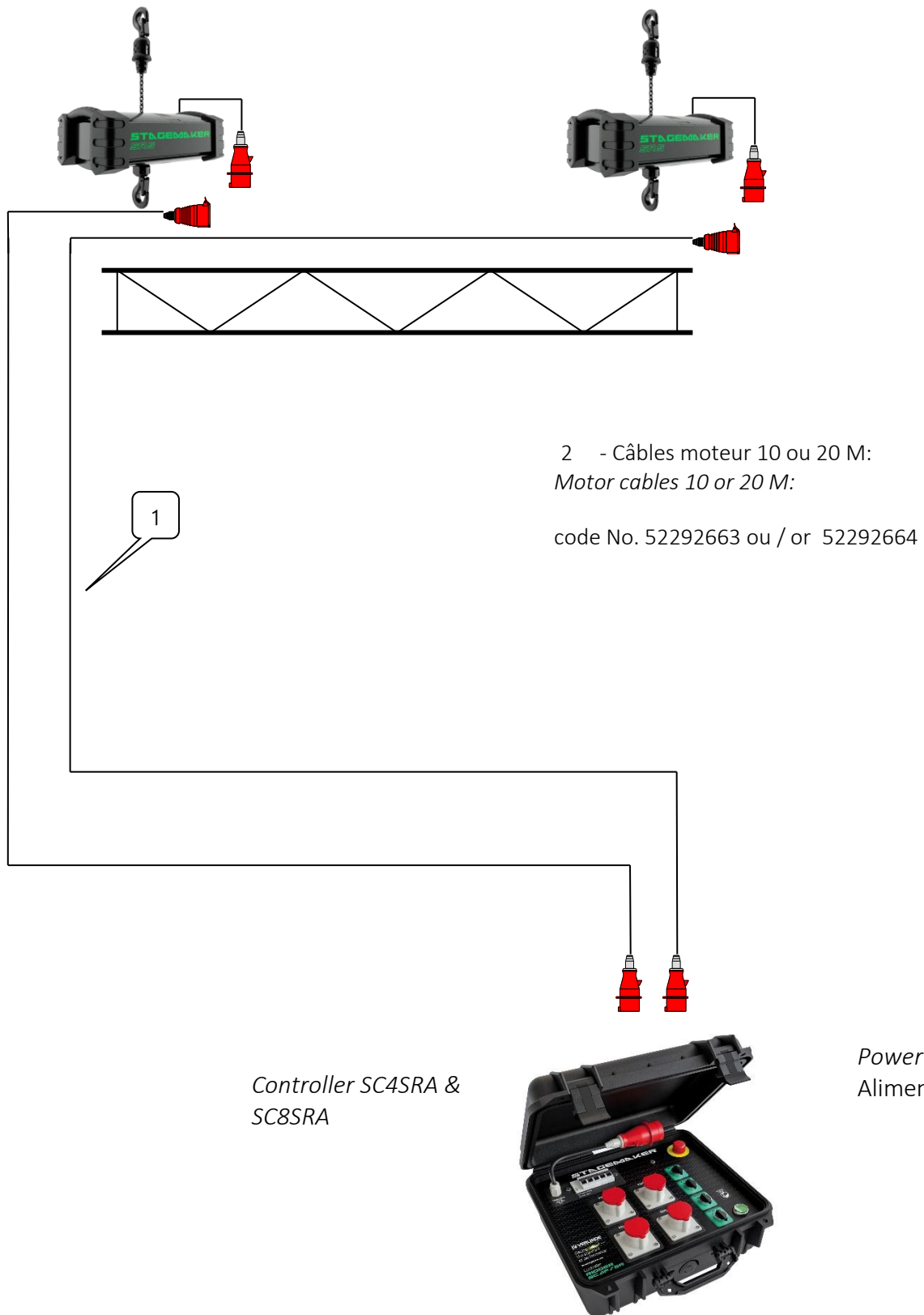
- 1) Connection hoist 1 to 4.
- 2) Connection hoist 5 to 8 (according model).
- 3) Power supply with CE plug P17 5P 32A 400V.
- 4) Connector female for daisylink connection.

### 2.1.5 Dimensions drawing

Type	Dimensions (A x B x C)	Weight (kg)
RIGGER – SC4SRA (52861505)	445 x 190 X 345	10
RIGGER – SC8SRA (52861506)	480 x 205 X 370	12



### 2.1.6 Example of use



### 2.2 STAGEMAKER CONTROLLERS RIGGER 19" Rack

- Phase detection and automatic correction of the phases
- Standard built-in cabling for possible remote option (wired or wireless) for all the range RIGGER
- Power supply: 400/415 V 3PH+N – 50/60Hz.
- Power-in plug 32 A 5p CE
- Multi connector 16 p output for group of 4 motors
- Short circuit protections : power & control circuit
- Thermal protection per group of 4 motors
- Master/slave mode: Link facility for two or more controllers
- Max. power per channel :1,8 kW / 400v 3 Ph
- Control voltage 24/48 Vdc

Options:

Flight case

Master slave connection (cable)

Remote control with wired panel

Remote control with wireless emitter/receiver

Connection for radio load cell system

### 2.3 Front face 4 channels



### 2.4 Front face 8 channels

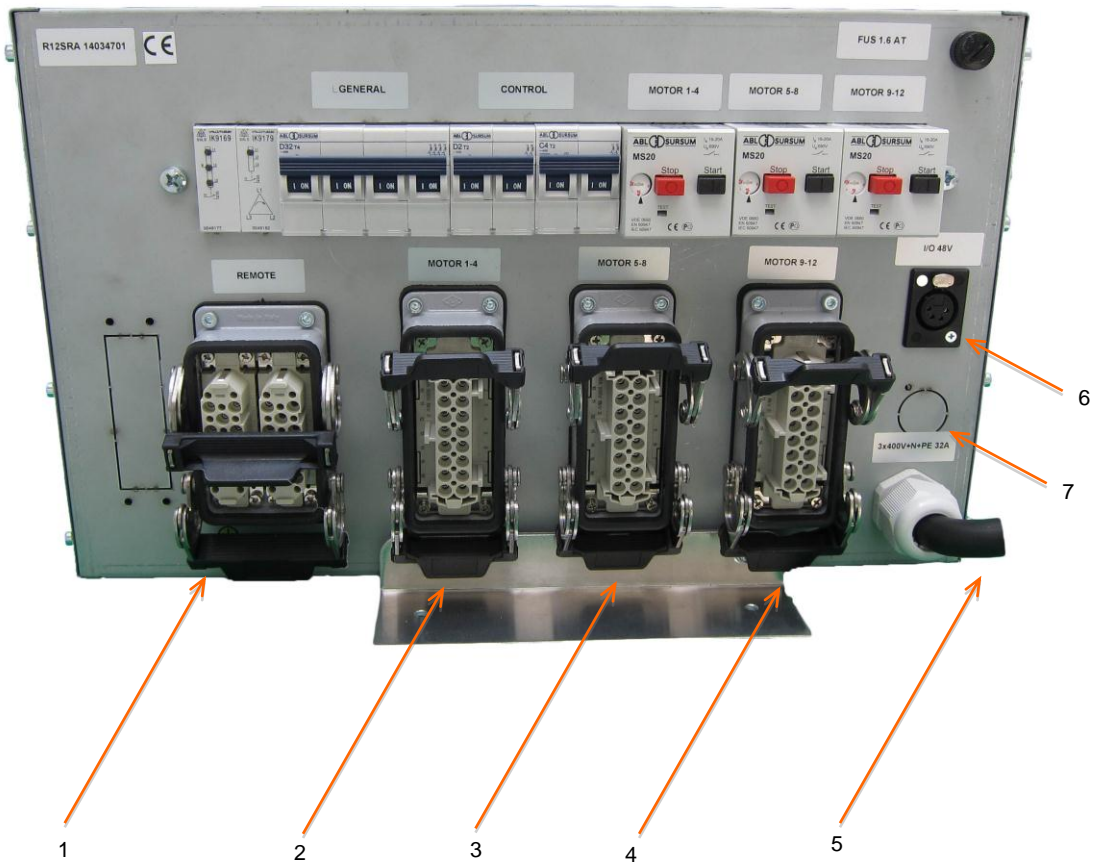


### 2.5 Front face 12 channels





### 2.6 Back side 4 / 8 / 12 channels



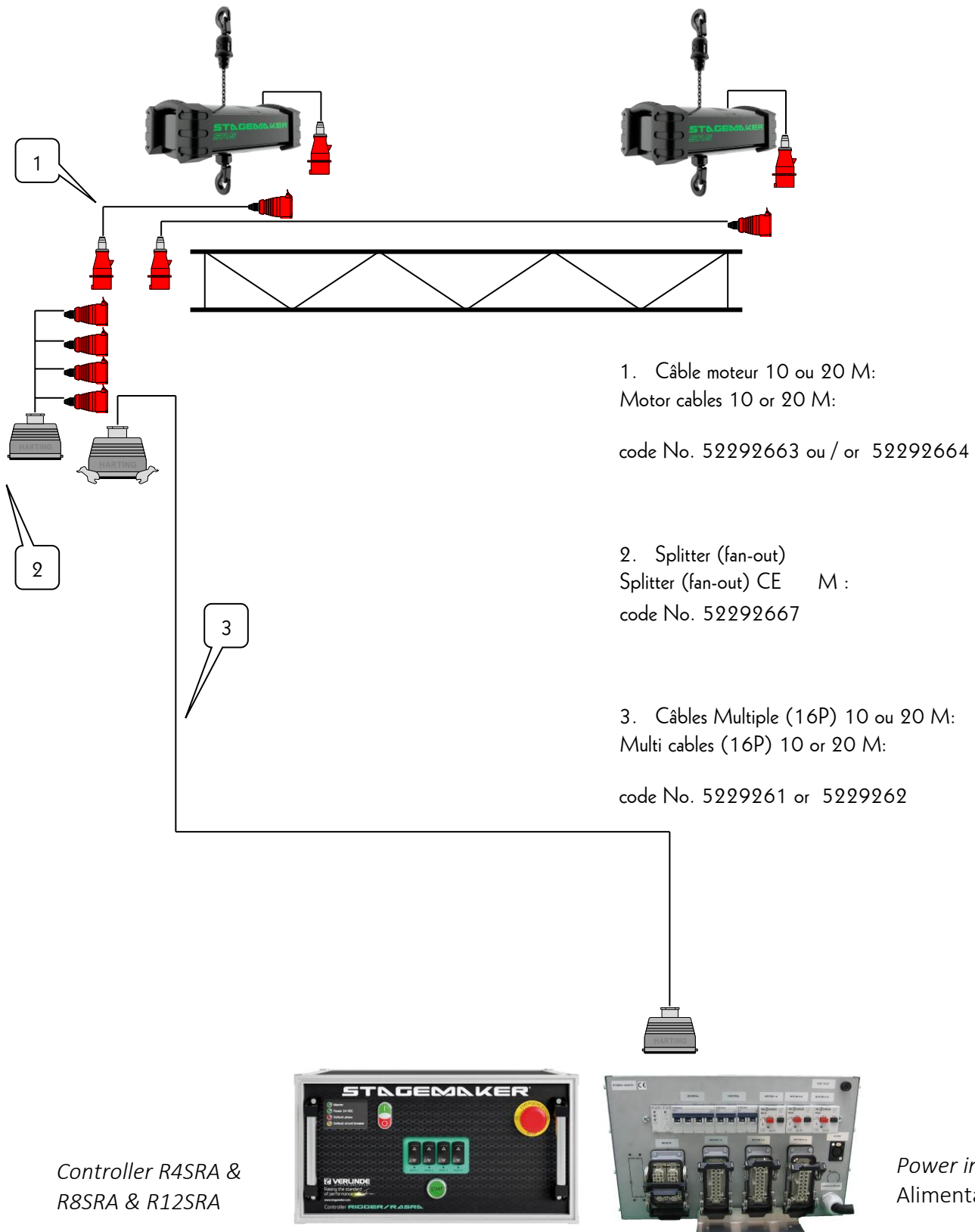
- 1) Connection for remote (pendant or radio).
- 2) Connection hoist 1 to 4.
- 3) Connection hoist 5 to 8 (according model).
- 4) Connection hoist 9 to 12 (according model).
- 5) Power supply with CE plug P17 5P 32A 400V.
- 6) Connector female for daysilink connection.
- 7) XLR 3 contacts connector female for Stagemaker radio load cell.

### 2.7 Dimensions drawing

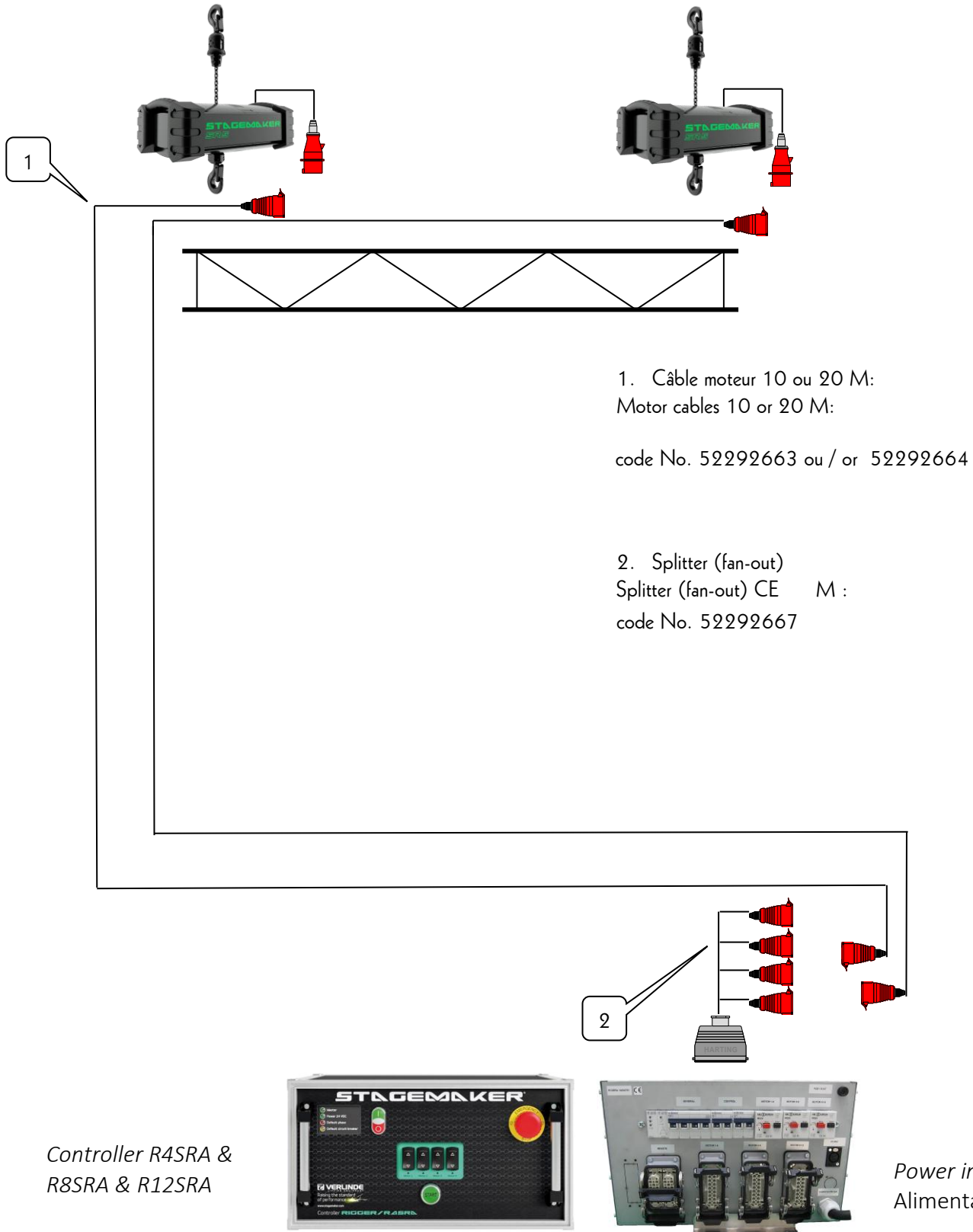
Type	Dimensions	Weight (kg)
RIGGER – R4SRA (52861507)	19" rack x 6 U / 482,6 x 261,96	25
RIGGER – R8SRA (52861508)	19" rack x 6 U / 482,6 x 261,96	26
RIGGER – R12SRA (52861613)	19" rack x 6 U / 482,6 x 261,96	27
A	Front plate elements (handle, M/A)	50 mm
B	Length of rack 6U	460 mm
C	Depth cubicle with with connecteurs and w/o power plug 32 A	530 mm
D	Depth cubicle with with connecteurs and with power plug 32 A	Mini 560 mm
E	Depth module rack HF (Height 2U)	400 mm
F	Wide, rack 4, 8 or 12 channels (19 ")	482.6 mm
G	Height rack 4, 8 or 12 channels (6U)	291.6 mm



### 2.8 Example of use



### 2.9 Example of use





### 3 STAGEMAKER Controllers THEATER

#### 3.1 Description

- Phase detection and automatic correction of the phases
- Standard built-in cabling for possible remote option (wired or wireless)
- Power supply: 400 /1 415 V 3PH ~N – 50/60Hz.
- Power-in plug 32 A 5p CE
- Multi 6 poles connector output one for each motor on 4 & 8 channels
- Multi 32 poles connector output for group of 4 motors on 12 channels
- Control voltage 24/48 Vdc
- Short circuit protections for power and control circuit
- Thermal protection per group of 4 motors
- Master/slave mode: Link facility for two or more controllers
- Max. power per channel : 1,8 kW / 400v 3 PH

Options:

- Flight case
- Master slave connection (cable)
- Remote control with wired panel
- Remote control with wireless emitter/receiver
- Connection for radio load cell system

#### 3.2 Front face 4 channels



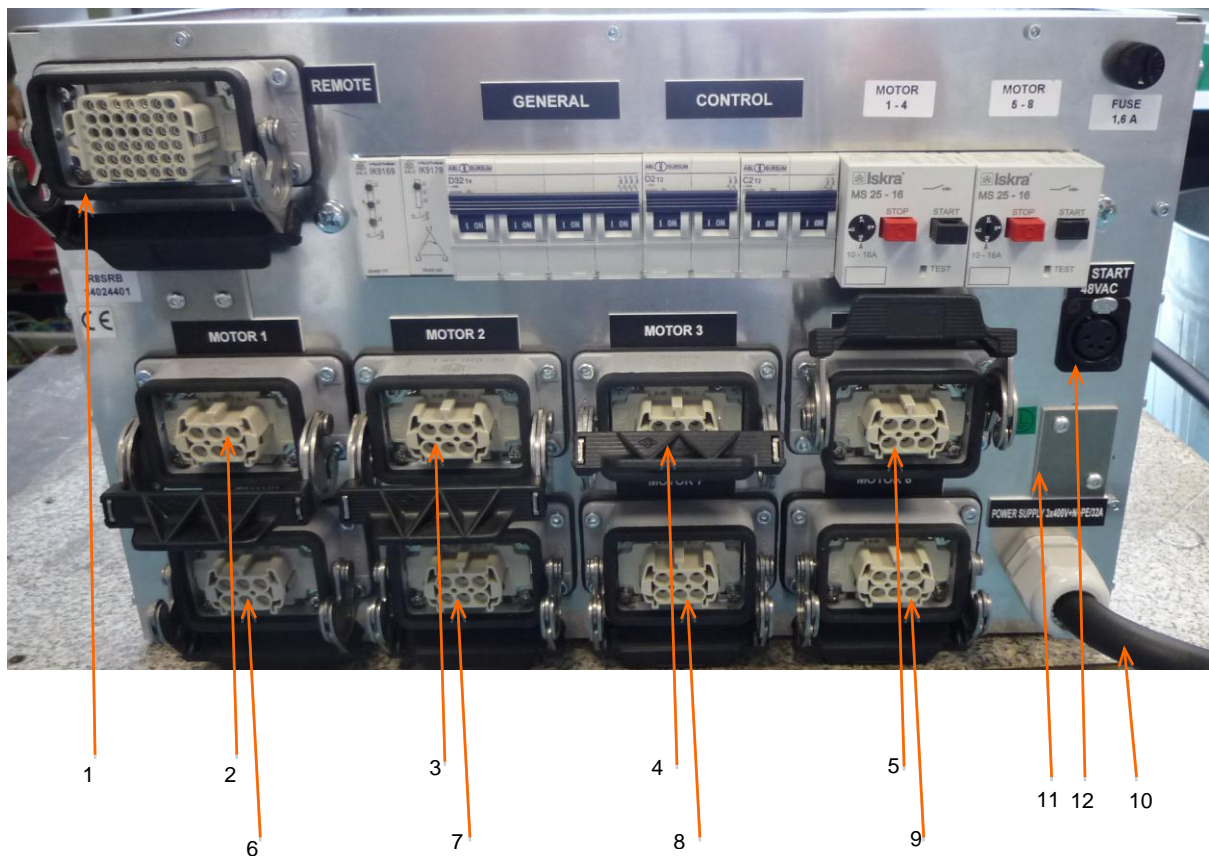
#### 3.3 Front face 8 channels



#### 3.4 Front face 12 channels



### 3.5 Back side 4 / 8 / 12



- 1) Connection for remote (pendant or radio).
- 2) Connection hoist 1 \*
- 3) Connection hoist 2\*
- 4) Connection hoist 3\*
- 5) Connection hoist 4\*
- 6) Connection hoist 5 (according models)\*
- 7) Connection hoist 6 (according models)\*
- 8) Connection hoist 7 (according models)\*
- 9) Connection hoist 8 (according models) \*
- 10) Power supply with CE plug P17 5P 32A 400V.
- 11) XLR 3 contacts connector female for Stagemaker radio load cell.
- 12) Connector female for daysilink connection.

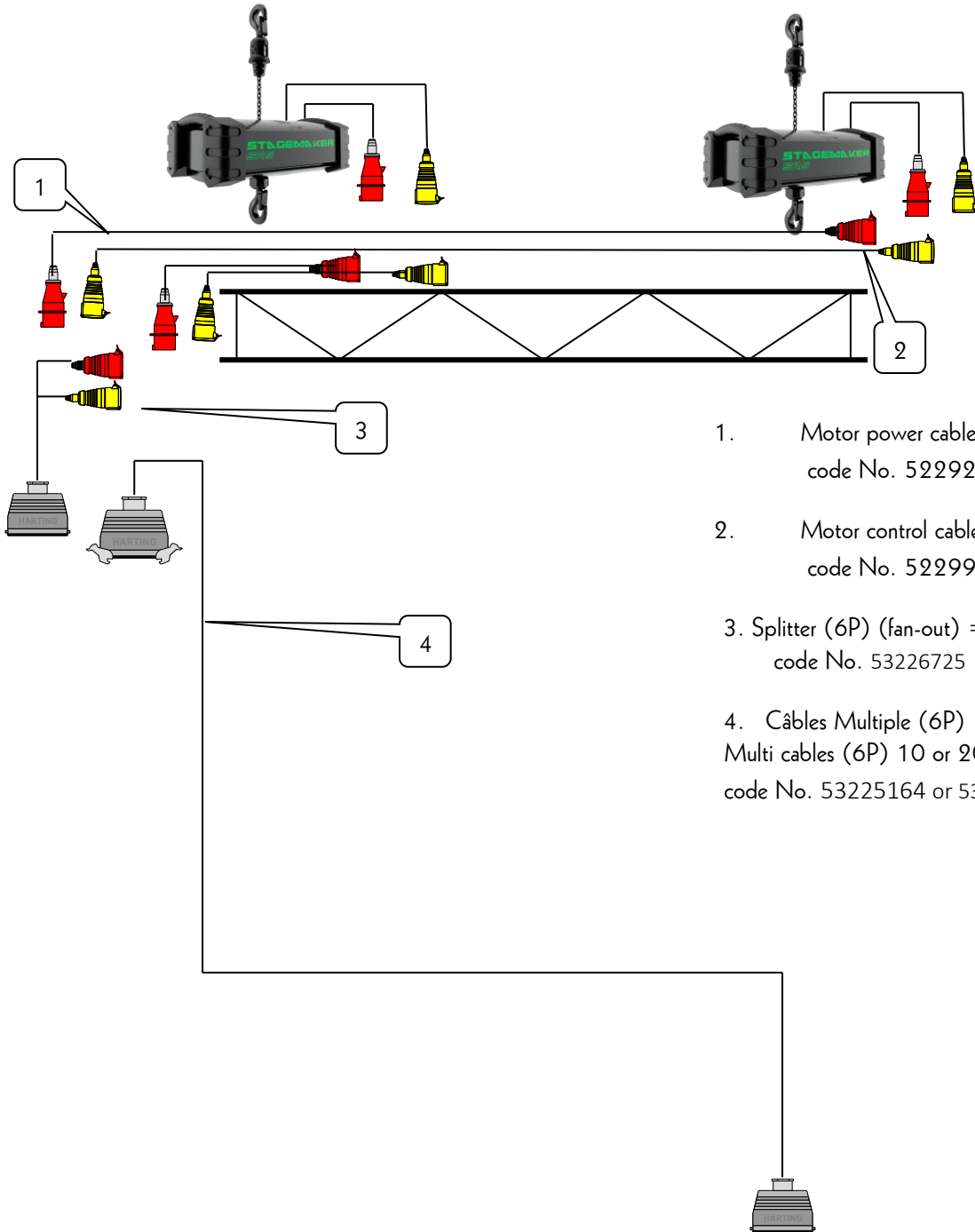
\* 4 multi connectors 32 poles in case of 12 channels controller, one output 32 poles for group of 4 motors (see page 23)

### 3.6 Dimensions drawing

Type	Dimensions	Weight (kg)
RIGGER – R4SRB (52861615)	19" rack x 6 U / 482,6 x 261,96	20
RIGGER – R8SRB (52861618)	19" rack x 6 U / 482,6 x 261,96	21
RIGGER – R12SRB (52861620)	19" rack x 6 U / 482,6 x 261,96	22
A	Front plate elements (handles, M/A)	50 mm
B	Length of rack 6U	460 mm
C	Depht cubicle with with connecteurs and w/o power plug 32 A	530 mm
D	Depht cubicle with with connecteurs and with power plug 32 A	Mini 560 mm
E	Depht module rack HF (Height 2U)	400 mm
F	Wide, rack 4, 8 or 12 channels (19 ")	482.6 mm
G	Height rack 4, 8 or 12 channels (6U)	291.6 mm



### 3.7 Example of use 4 & 8 channels



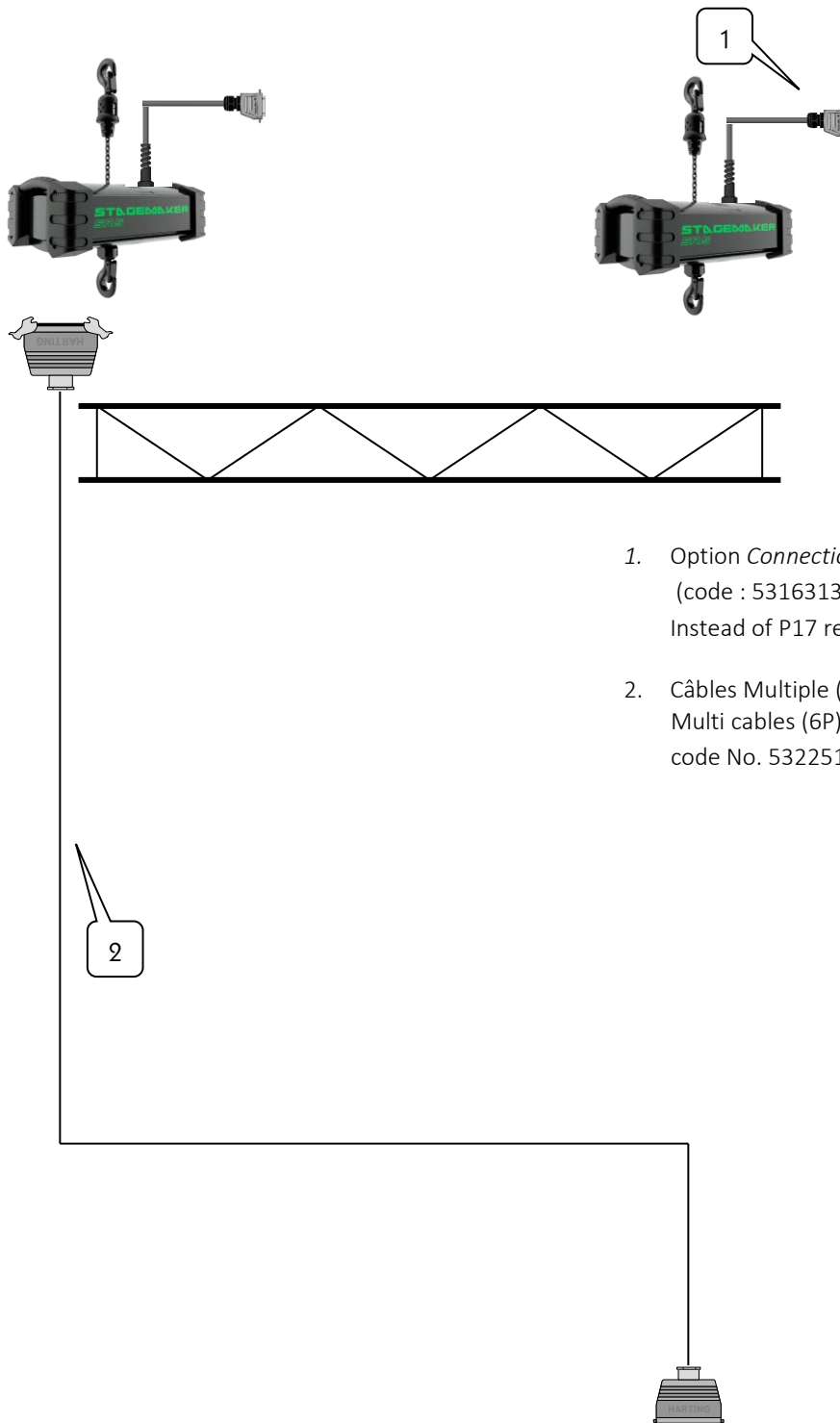
1. Motor power cables 10 or 20 M:  
code No. 52292663 ou / or 52292664
2. Motor control cables 10 or 20 M:  
code No. 52299853 ou / or 52299854
3. Splitter (6P) (fan-out) => Red + Yellow P17  
code No. 53226725
4. Câbles Multiple (6P) 10 ou 20 M:  
Multi cables (6P) 10 or 20 M:  
code No. 53225164 or 53225171

Controller R4SRB &  
R8SRB



Power input  
Alimentation

### 3.8 Example of use 4 & 8 channels



1. Option Connection cable 0,5m with Harting 6p  
(code : 53163135)  
Instead of P17 red + Yellow
2. Câbles Multiple (6P) 10 ou 20 M:  
Multi cables (6P) 10 or 20 M:  
code No. 53225164 or 53225171

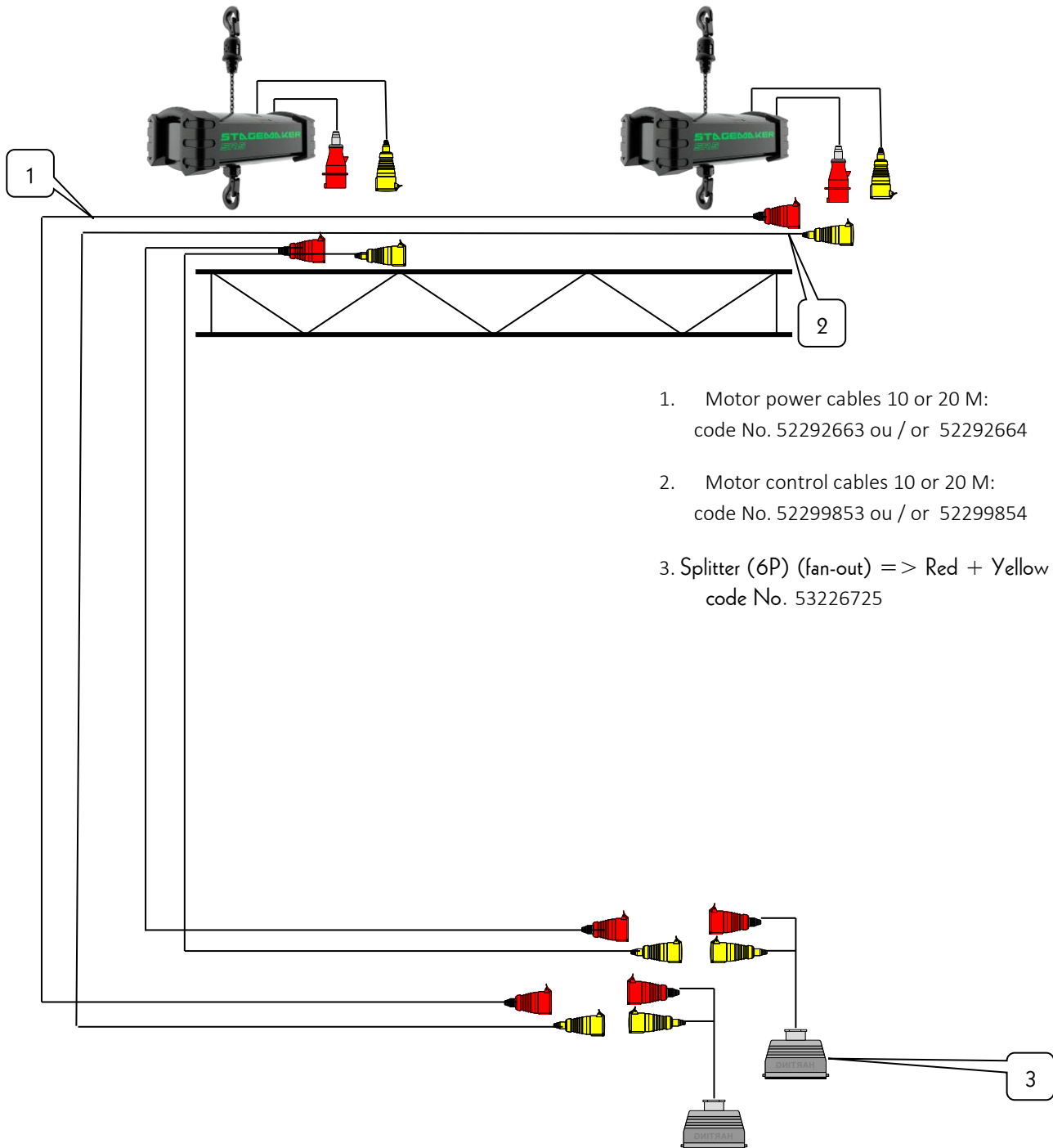
Controller R4SRB &  
R8SRB



Power input  
Alimentation



### 3.9 Example of use 4 & 8 channels



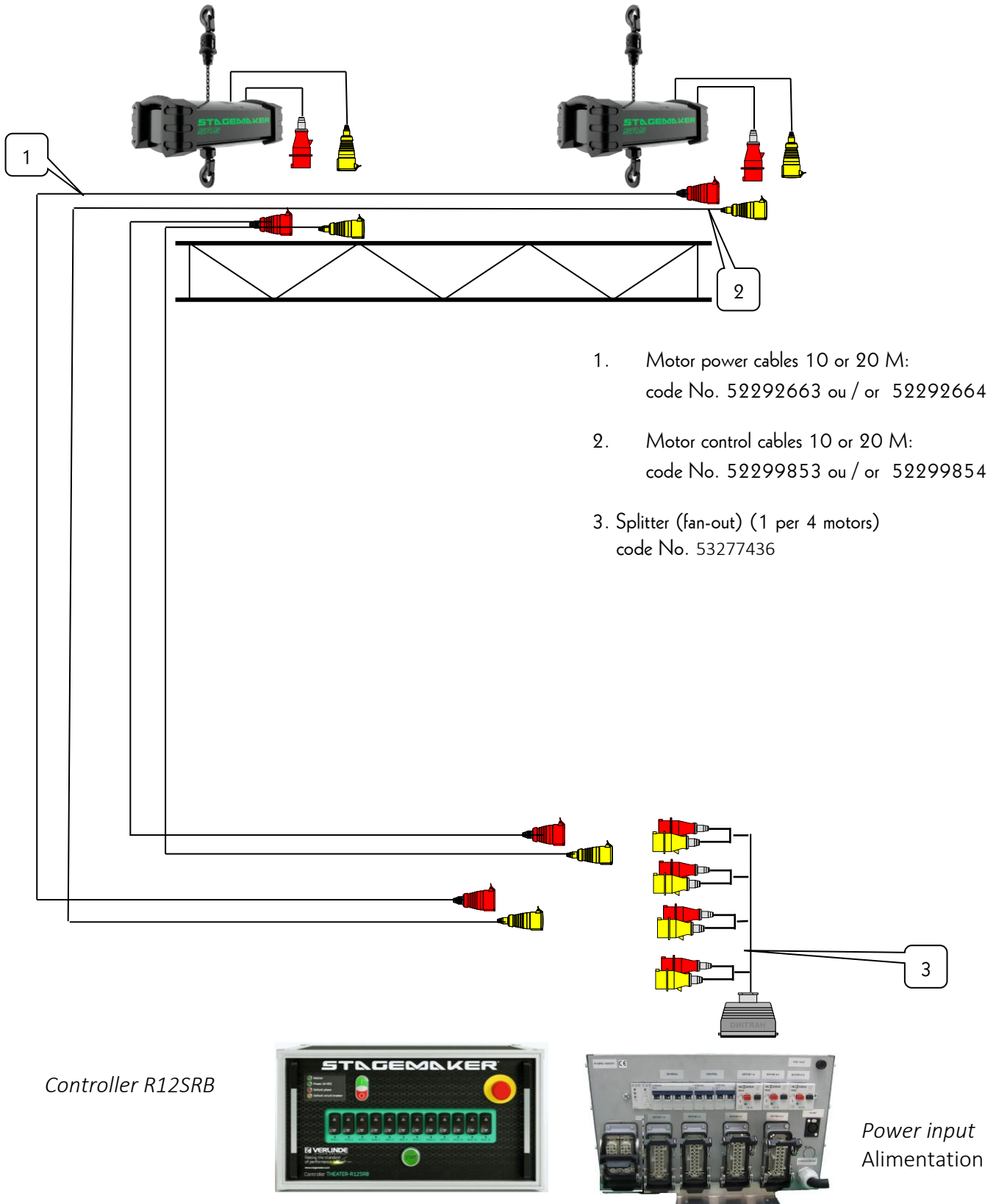
1. Motor power cables 10 or 20 M:  
code No. 52292663 ou / or 52292664
2. Motor control cables 10 or 20 M:  
code No. 52299853 ou / or 52299854
3. Splitter (6P) (fan-out) => Red + Yellow P17  
code No. 53226725

Controller R4SRB &  
R8SRB



Power input  
Alimentation

### 3.10 Example of use 12 channels



### 4 Options on STAGEMAKER Controllers

#### 4.1 Remote control (pendant)



Type	Description	Cable length (m)	Connector	Dimensions (mm) L x W x H	Weight (kg)	Code
BAB4SRA	Remote for 4 channels controller type R4SRA	25	Multi 25 p	380 x 117x70 (+40 handles)	2	57879555
BAB8SRA	Remote for 8 channels controller type R4SRA	25	Multi 25 p	NC	2	57879556
BAB12SRA	Remote for 12 channels controller type R12SRA	25	Multi 50 p	NC	2	57879557
BAB4SRB	Remote for 4 channels controller type R4SRB	25	Multi 25 p	NC	2	53273023
BAB8SRB	Remote for 8 channels controller type R4SRB	25	Multi 42 p	NC	2	53273024
BAB12SRB	Remote for 12 channels controller type R12SRB	25	Multi 50 p	NC	2	53273025



### 4.2 Remote control (radio)

Type	Description	Connector	Band Frequency	Area cover (m)	Dimensions (mm) L x W x H	Weight (kg)	Code
RHR32-4B	Radio receiver for 19" rack, 2U size, for controller type R4SRB	Multi 25 p	433 mHz	-	19" rack x 2 U 482,6 x 88,9	NA	53273019
RHR32-8B	Radio receiver 19" rack, 2U size, for controller type R8SRB	Multi 42 p	433 mHz	-	19" rack x 2 U 482,6 x 88,9	NA	53273018
RHR32-12B	Radio receiver 19" rack, 2U size, for controller type R12SRB	Multi 50 p	433 mHz	-	19" rack x 2 U 482,6 x 88,9	NA	53271597
RADE32SRB	Radio transmitter 32 channels	HF	433 mHz	25 m free area *	300 x 165 x 35	1.2	53271584
RHR32-4A	Radio receiver for 19" rack, 2U size, for controller type R4SRA	Multi 25 p	433 mHz	-	19" rack x 2 U 482,6 x 88,9	NA	53273017
RHR32-8A	Radio receiver 19" rack, 2U size, for controller type R8SRA	Multi 25 p	433 mHz	-	19" rack x 2 U 482,6 x 88,9	NA	53273014
RHR32-12A	Radio receiver 19" rack, 2U size, for controller type R12SRA	Multi 50 p	433 mHz	-	19" rack x 2 U 482,6 x 88,9	NA	53271596
RADE32SRA	Radio transmitter 32 channels	HF	433 mHz	25 m free area *	300 x 165 x 35	1.2	53271581

L'émetteur radio 32 voies ne fonctionne qu' avec les récepteurs 4/8 ou 12 voies /Radio transmitter 32 channels will be compatible only with 4/8 or 12 channels receiver.

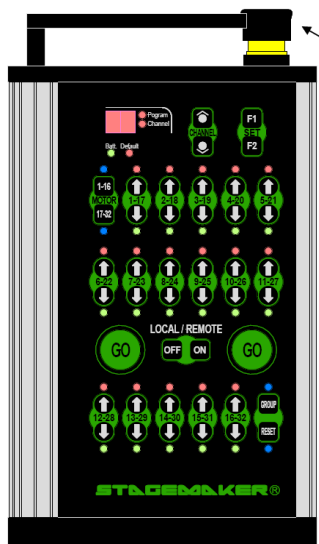
Pour tout pilotage à distance de plusieurs contrôleurs via un système radio, un récepteur radio est nécessaire par contrôleur / For all distance radio control system on multiple controllers, one radio receiver is mandatory by controller.

\* Operateur must operate radio at reasonable distance from emergency stop from controller

#### Option:

**HF offset relay kit (53277437):** to improve radio reception in case of disturbed transmission :

- Add of plug in connector on receiver for antenna, add of connector for emergency stop, 2 secured plug on cover
- Supply of box with emergency stop and 25 m cable
- Supply of relay box for HF reception and 25 m cable



Emitter

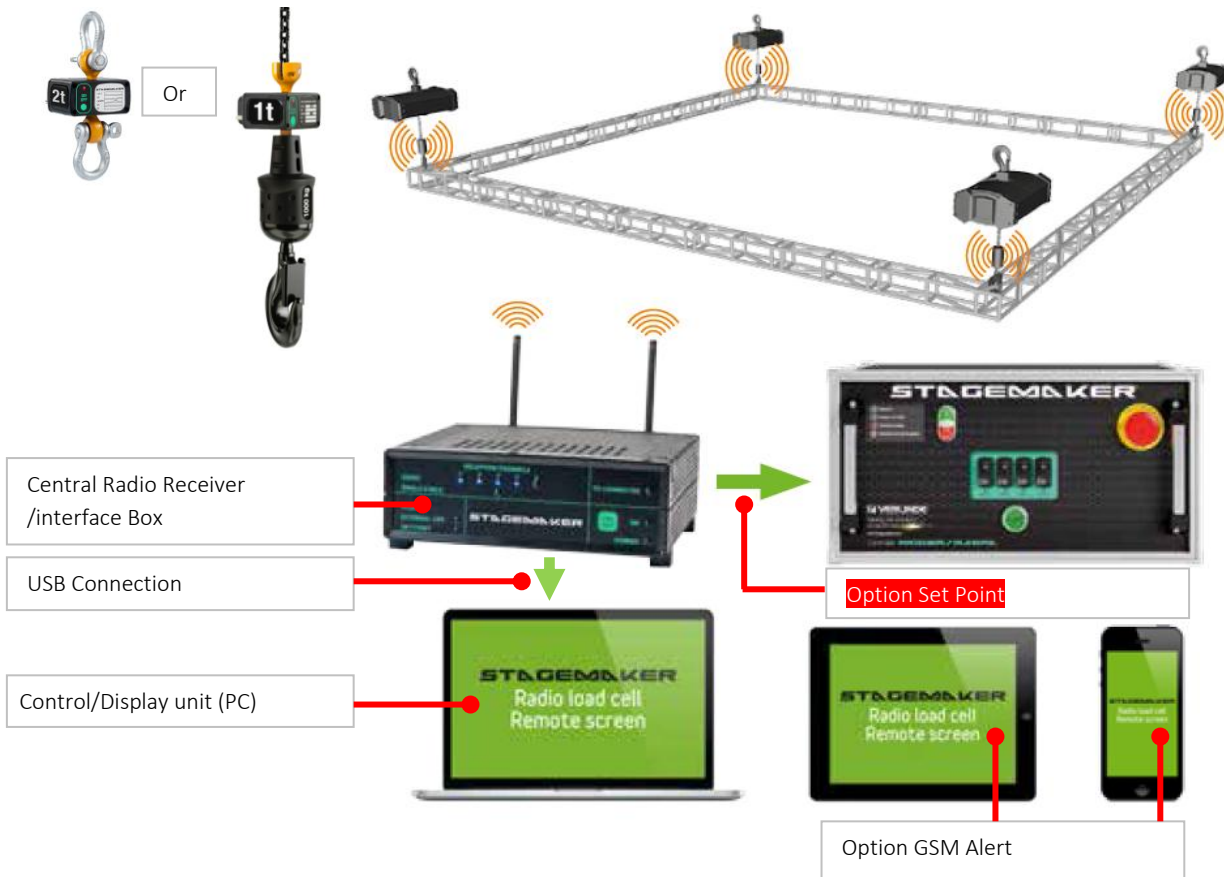


Receiver

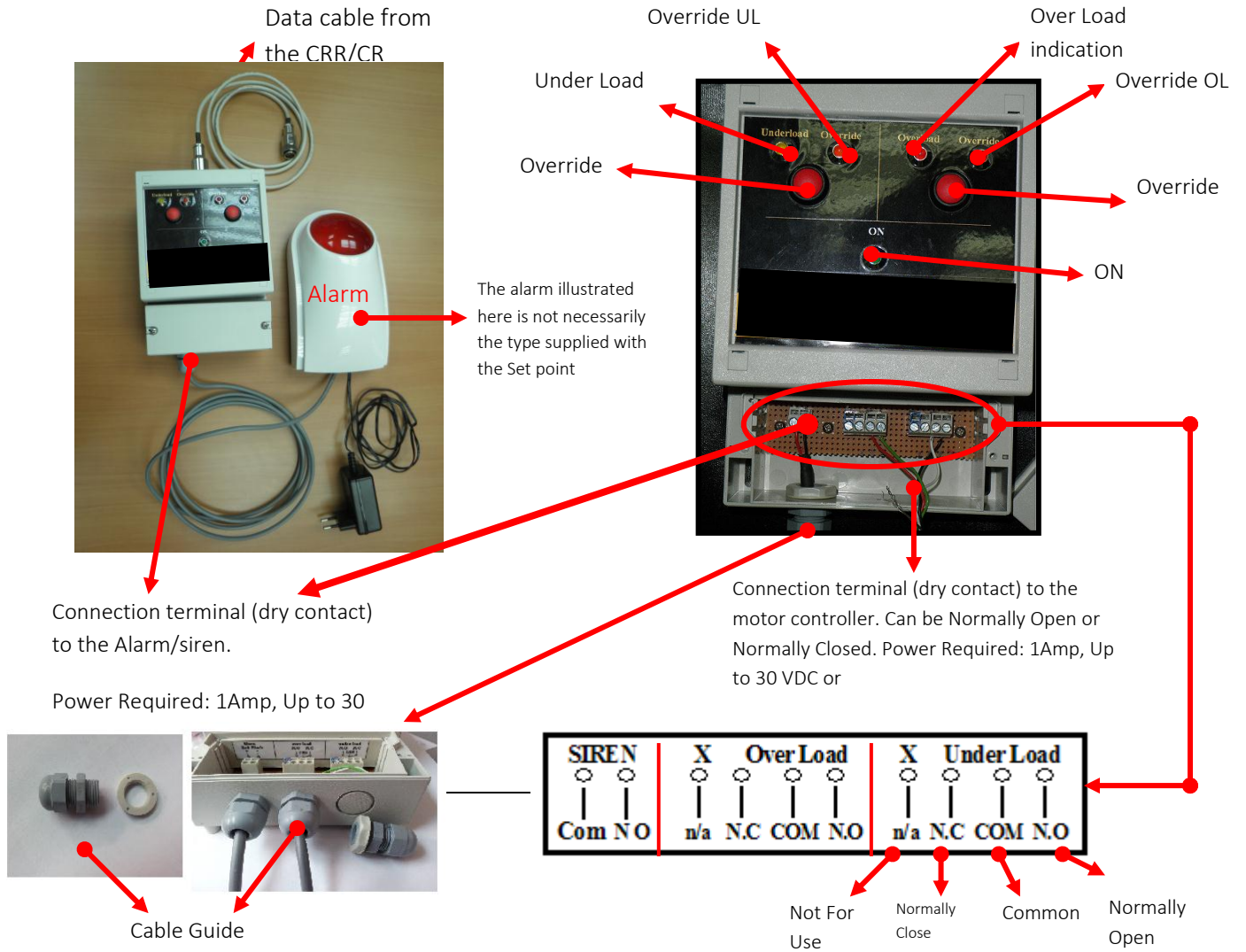
### 4.5 Connector for Radio load cell system

Set Point - This OPTIONAL feature allows the user to set and control the motors used (stop the motor/s in case of a hazardous situation). It can be applied on any kind of motor controller using a relay(interface unit – see photo below) using dry contact and a basic status of Normally Open or Normally Closed, per user requirement. The output may be applied on activation of any kind of alarm/alerting light along the motor controller stop command. Using the Rigger and the Theatre family Stagemaker controller – there is an optional direct connection from the controller to the set point interface.

#### 4.5.1 Radio load cell system




### 4.5.2 Set Point connexion

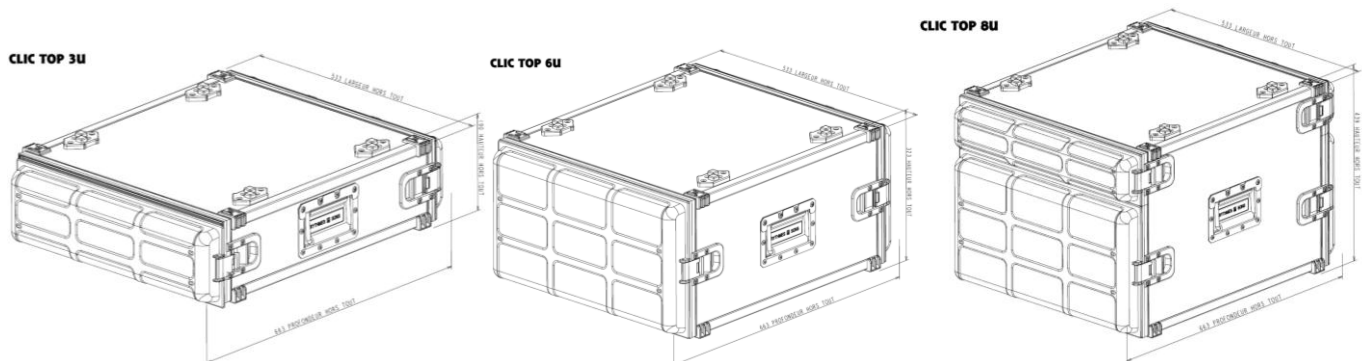


## 5 Flight cases for controlers

### 5.1 Definition

Premium Version	
<ul style="list-style-type: none"> <li>• Configuration type flat flight case for Rack 19" and multiple of U dimensions.</li> <li>• Front and back moulded plastic cover.</li> <li>• Panel all Birch shot 9 mm finish hexa black ultra resistant.</li> <li>• 2 recessed spring-loaded handles.</li> <li>• 4 cup stacking.</li> <li>• 4 foot stacking.</li> </ul>	
Eco Version	
<ul style="list-style-type: none"> <li>• Configuration type flat flight case for Rack 19" and multiple of U dimensions.</li> <li>• Front and back moulded plastic cover.</li> <li>• Panel all Birch shot 9 mm.</li> <li>• 2 recessed spring-loaded handles.</li> <li>• 4 cup stacking.</li> <li>• 4 foot stacking.</li> </ul>	

### 5.2 Flight cases range / dimensions



#### PREMIUM & ECO VERSION

Designation	Dimensions (mm) Length x wide x height
Flight case Clip top for controllers 19" 3U	663 x 533 x 190
Flight case Clip top for controllers 19" 6U	663 x 533 x 323
Flight case Clip top for controllers 19" 8U	663 x 533 x 439

### 5.3 Flight cases stickers

Production Sticker for Stagemaker controller flight cases

STAGEMAKER®			
www.stagemaker.com			
Production :		Date :	
Content :		Packed by :	
		Job number :	
Weight :	Storage position :	Out date :	Back date :
		Case nbr. :	of # :

A **leader** in lifting equipment with a  
**large range** hoisting equipment from 60 to 250 000 kg.

Europe and USA **quality control** certified.

A customer service in more than **80** countries.



# STAGEMAKER® worldwide

Distributors in Germany, Holland, Belgium, Italy, Argentina, Austria, Brazil, Chilli, Ireland, United Kingdom, Spain, Sweden, Norway, Finland, France, Portugal, Hungary, Poland, Russia, Denmark, China, Thailand, Indonesia, Malaysia, United States, Canada, Mexico, etc.

To locate distributor in your country, please consult: [www.stagemaker.com](http://www.stagemaker.com)

## STAGEMAKER Europe

### VERLINDE

2, boulevard de l'Industrie - B.P. 20059

28509 Vernouillet cedex - France

Téléphone : **+33 (0)2 37 38 95 95**

Fax : **+33 (0)2 37 38 95 99**

Internet : [www.stagemaker.com](http://www.stagemaker.com)

