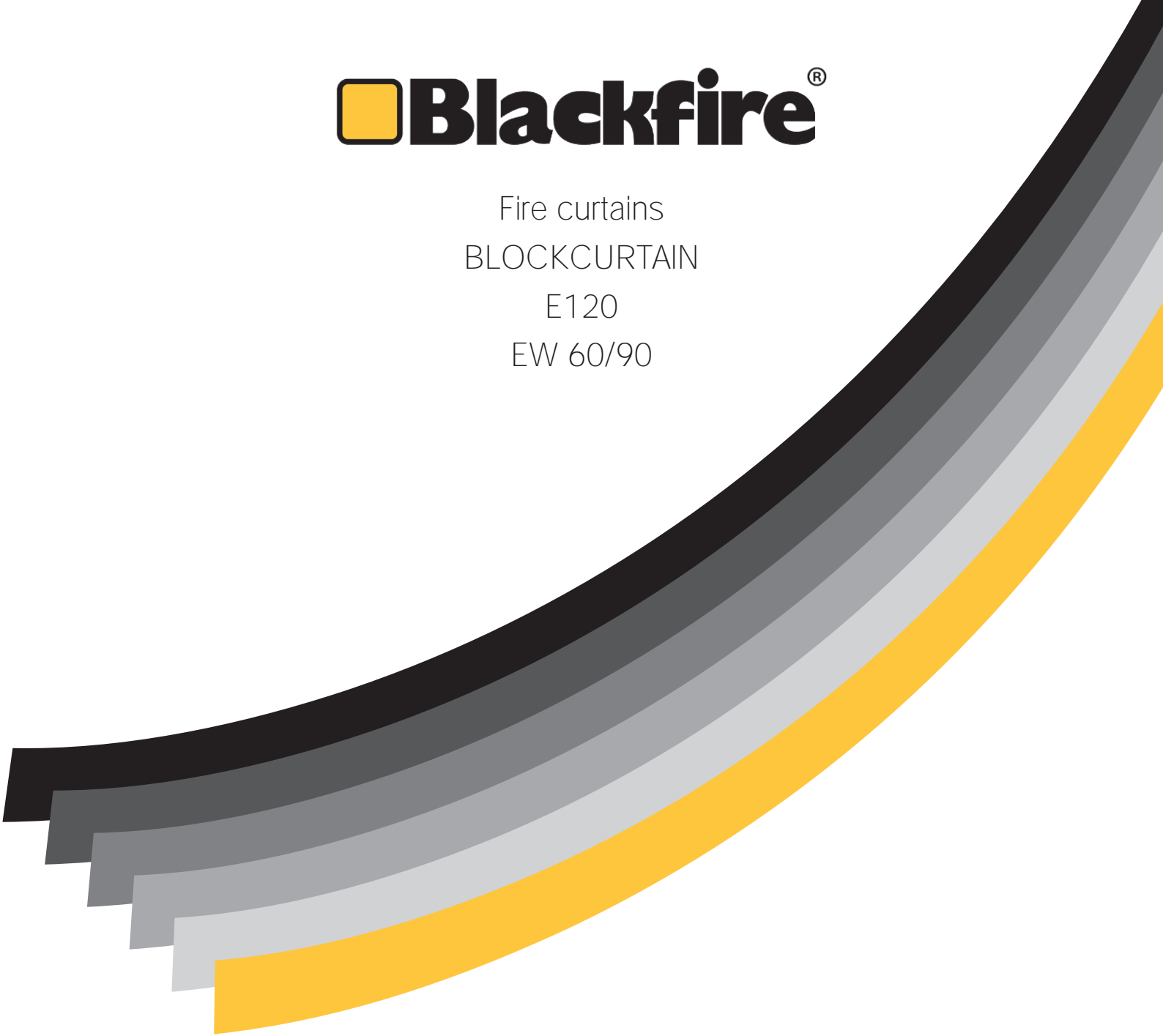




Fire curtains  
BLOCKCURTAIN  
E120  
EW 60/90



**BLOCKCURTAIN E120**, guarantee the curtain integrity and the resistance to hot gasses, tested at 1000 °C for 120 minutes. (E performance)

**BLOCURTAIN EW60/90** are tested to withstand fire and guarantee the integrity at 1000°C for 120 minutes (E performance) and contain the heat radiation for 60/90 minutes (W performance).

**BLOCKCURTAIN E120 - EW60/90** are mobile and partially flexible fire curtains, realized in one module (no overlaps) , normally wrapped and supplied inside an head box made in galvanized steel 1,2 mm thick with the dimensions starting from W. 220 x 220 H. mm

The fabric is made of fiber glass reinforced with steel cables, covered on both sides with polyuretane material and has a weight of 710 g/mq for **BLOCKCURTAIN E120** and 1120 g/mq for **BLOCKCURTAIN EW60/90**

A bottom bar with counterweight 50 mm width, helps the curtain to be held in tension once in fire position (open); it's weight is calculated proportionally to the curtain's dimensions. The bottom bar is coated RAL 9010 (standard supply).

BLOCKCURTAIN EW60/90



BLOCKCURTAIN E120



1. Galvanized steel head box, different dimensions in according to the model type  
» see characteristics pag.24
2. Head box and winding shaft's supports brackets
3. Winding shaft
4. Gravity Fail System drive  
» see characteristics pag.26
5. Lateral side guide with holding tube  
» see characteristics pag. 25
6. Vertical holding system, holding tube  
» see characteristics pag. 25
7. Fabric
8. Counterweight and bottom bar element  
» see characteristics pag. 25



The lateral side guides for **BLOCKCURTAIN E120 - EW60/90** are made of galvanized steel, 2,0 mm thick, have a standard dimensions of 120 x 70 mm and inside the side guides there is a the retention tube where the fabric is hooked for the whole height that also helps the fabric sliding, that results more linear and tensioned.

**BLOCKCURTAIN E120 - EW60/90** is normally supplied with an internal tubular drive 24V, inserted on the winding shaft and guarantee linearity and a compact aesthetics and functionality.

Once the curtain receive the fire alarm or in case of power failure the curtain thanks to the Gravity fail safe system descend with a controlled speed.

The control panel, always supplied, can control multiple modules and has an integrated Ups battery in case of main power failure, IP56 isolation.

Frontwall and upper fixation on mansory with screws and steel anchors, wall density 1990 kg/m<sup>3</sup>; wall thickness: 190mm

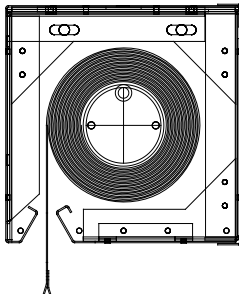
### HEAD BOX TECHNICAL CHARACTERISTICS/ INSTALLATION

The BLOCKCURTAIN E120 and EW60/90 systems are light and compact systems that allow to divide building areas or industrial halls, etc. in fire sections.

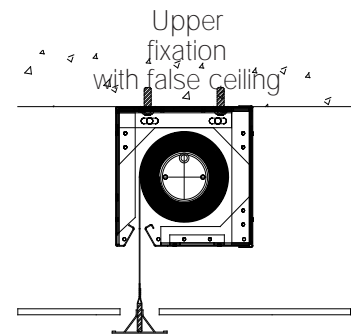
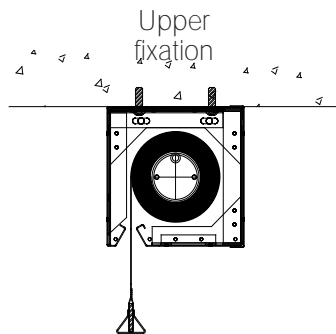
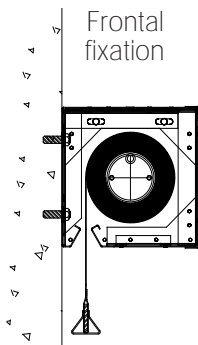
These are an ideal solution for sectorization in areas where there is need of movement of machinery, people, vehicles, while at the same time allowing to keep open spaces

#### HEAD BOX MODEL CSH

Head box made of galvanized bent steel sheet, for single modul curtains, maximum width 4500 mm.

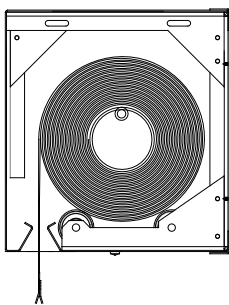


Head box Model	Maximum curtain dimension W. x H. mm		Maximum casing dimensions D. x H. (mm)
Serie S22	4500	3500	220x220
Serie S24	4500	7000	240x260

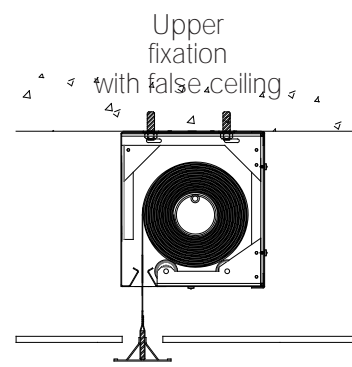
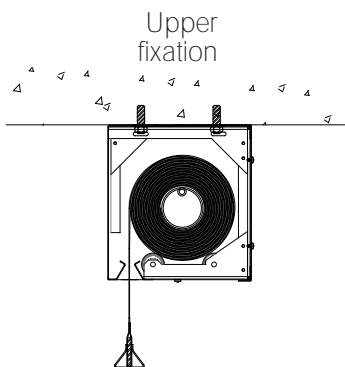
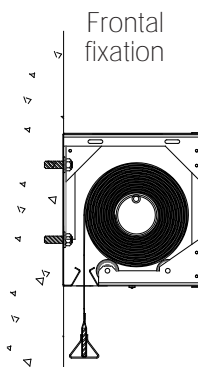


#### HEAD BOX MODEL CSH-R

Head box made of galvanized bent steel sheet, for single modul curtains, maximum width 12000 mm.



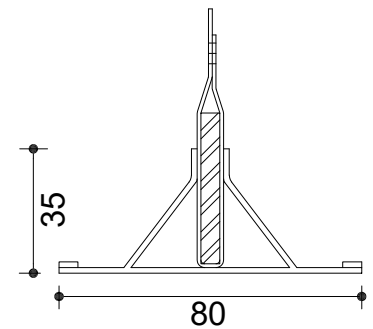
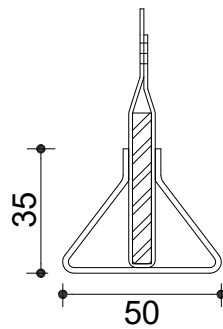
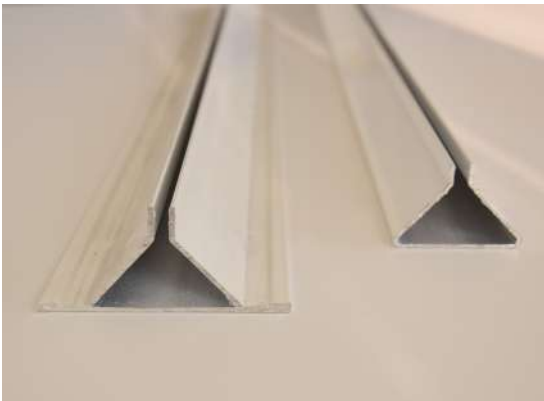
Head box model	Maximum curtain dimension W. x H. mm		Maximum casing dimensions D. x H. (mm)
Serie R22	12000	3500	220x220
Serie R24	12000	6500	240x260
Serie R26	12000	8000	260x300



Important: all the supports must guarantee a even or superior fire resistance. Screws, rivets and all the attachments must have a diameter at least of 8mm.

### BOTTOM BAR ELEMENT CHARACTERISTICS

The tension of the fabric is guaranteed by the bottom bar element with counterweight, placed at the end of the curtain, which facilitates the vertical descent. Made of extruded aluminum, standard RAL 9010 coating. The internal counterweight can vary, depending on the size of the curtain and the weight needed to keep the fabric taut during the descent,

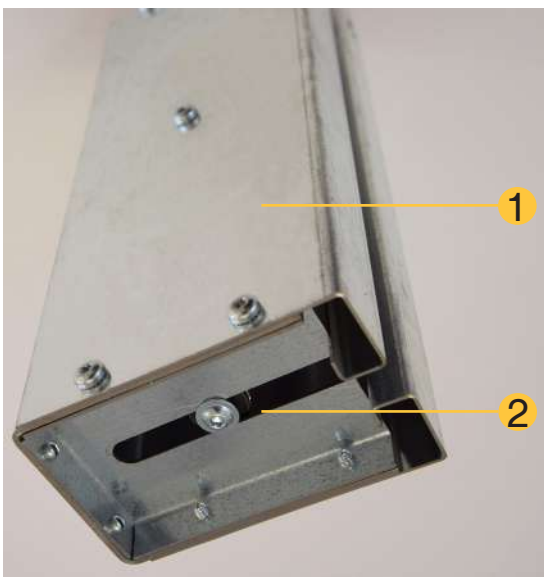


( see application on the previous page)

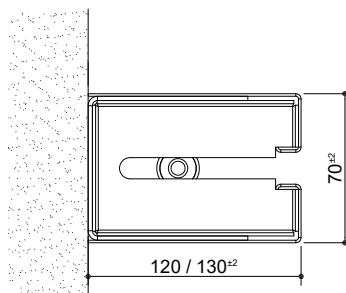
### LATERAL SIDE GUIDES CHARACTERISTICS

The lateral sliding guides (1) with a retention tube inside on which hold the fabric (2), to give tension to the facilitate sliding during the curtain descent.

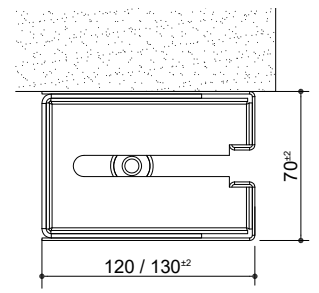
The guides are made of galvanized steel and can be supplied painted in RAL colors on request.



bottom view



Lateral fixation



Front wall fixation

Guide type	Curtains dimensions max H. (mm)	Guide dimensions max W. x D (mm)
SG120	up to 4500	120x70
SG130	over 4500	130x70

**Important: lateral side guides are mandatory**





MOTORE MCT 2A	General characteristics
Voltage	24 V
Speed	25 rpm
Nominal torque	5.10 N/m
Maximum current	3A
Power	20 W
Degree of protection	IP 67

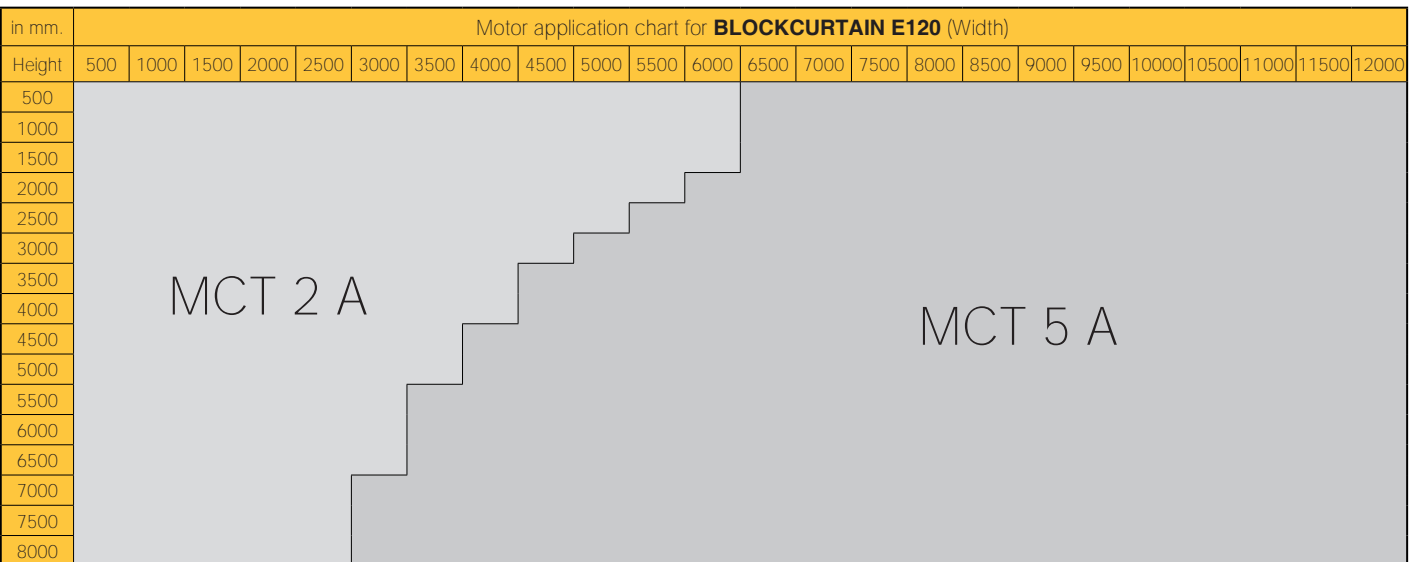
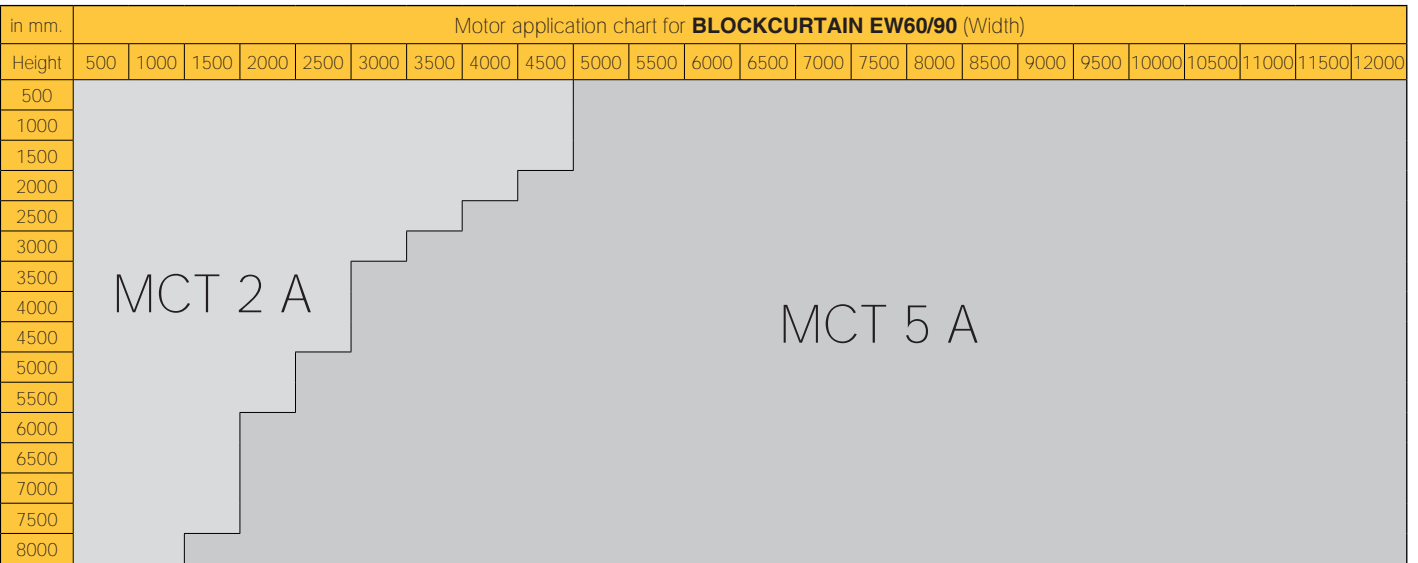
Both motors are supplied with the adapter for octagonal or round shaft of variable dimensions in according to the model type.



MCT 5A MOTOR	General characteristics
Voltage	24 V
Speed	14 / 8 rpm
Nominal torque	30/60 N/m
Maximum current	6,3 A
Power	150 W
Degree of protection	IP 44

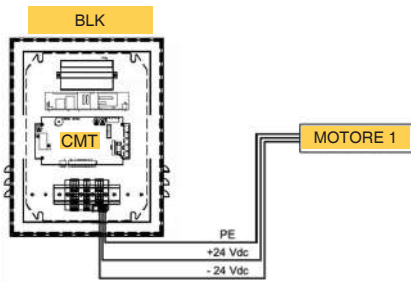
The set consists of an electric motor and planetary reducer housed inside a metal housing

The drive is equipped with a system that control the speed descent (Gravity fail safe system), when starts the fire alarm signal or in case of main power.



### MOTION DEVICES / CONTROL PANELS AND DRIVES

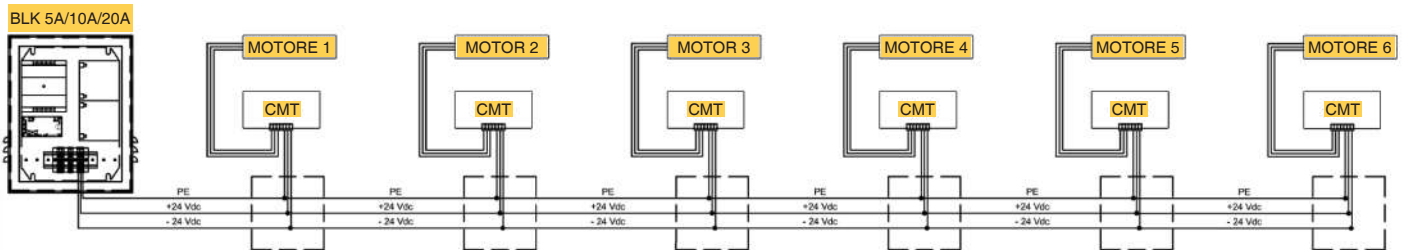
#### Example of single connection with control panel type BLK



BLK control panels are programmable modules for the control of automatic protection systems; they are used for the activation and management of systems and are responsible for constantly checking the engine's status.

When the control panel receive an alarm or an open contact signal, sends an activation order to the curtains, closing the compartmentalization space. BLK control panels are individual system with integrated UPS module which guarantee autonomy for 2 hours operation in case of loss of main power supply.

#### Example of multiple connection with control panel BLK 5A/10A/20A + CMT



BLK 5A/10A/20A control panels are programmable modules to control the fire and smoke containment systems.

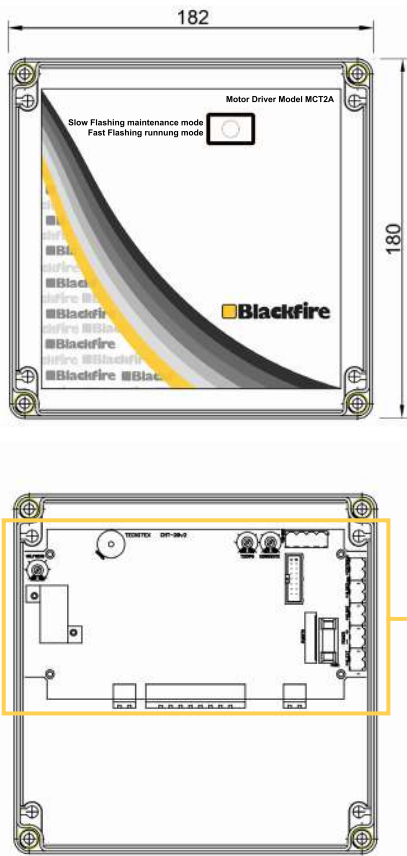
**BLOCKCURTAIN E120 - EW60/90** are connected in according to the number of motors and control panels as follow: BLK in case of single drive, BLK 5 A, BLK 10 A and BLK 20 A in case of multiple drives or curtains up to 12 units. Through the control unit you can adjust the speed descent and power during installation, so as to ensure the perfect adaptation of the product to the hole to protect.

They are individual systems through an integrated UPS module which guarantees autonomy of 4-6 hours operation in case of loss of main power supply

Below there is the combinations chart with drives MCT2A and MCT5A.

Control panel activity is ensured with a 24v back up battery that guarantee, in case of general power supply loss, the activity of the electric brake in order to maintain the curtain wrapped..

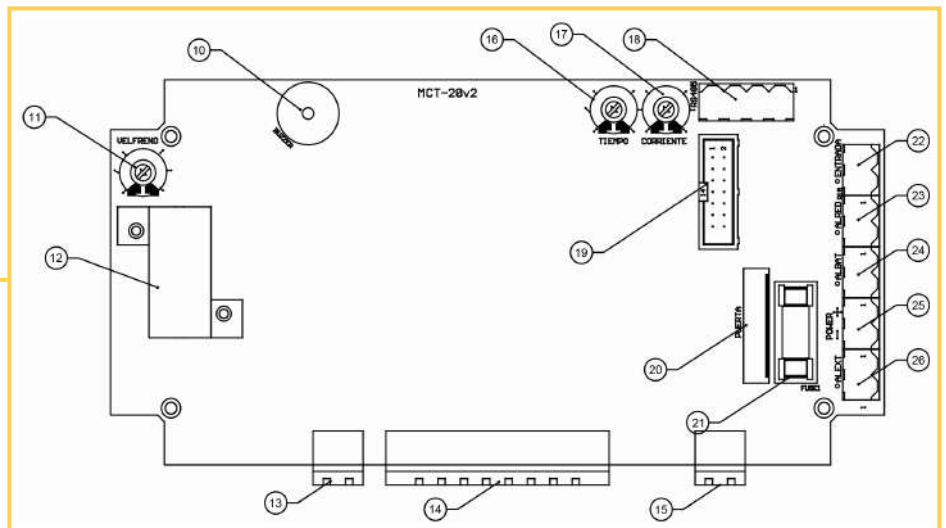
Control panel	Configuration	Drives	
		MCT 2 A	MCT 5 A
BLK	A	1 unit.	-
	B	-	1 unit.
BLK 5 A	A	2 unit.	-
	B	-	1 unit.
BLK 10 A	A	6 unit.	-
	B	-	2 unit.
	C	2 unit.	1 unit.
BLK 20 A	A	12 unit.	-
	B	-	4 unit.
	C	2 unit.	3 unit.
	D	4 unit.	2 unit.
	E	5 unit.	1 unit.



### Control panel CMT

The control unit status can be constantly monitored by means of 3 external LEDs associated with the Key test, with which the descent can be carried out manually during periodic operation checks.

All the control units are set up for a smoke detection system junction.



Rif	ITEM	DETAIL
10	ACOUSTIC BUZZER	ACOUSTIC BUZZER IN CASE OF ALARM
11	POTENTIOMETER VELOCITY BRAKE	POTENTIOMETER IN CHARGE OF REGULATING THE SPEED OF DESCENT
12	BRAKE HEATSINK	ELEMENT HEATSINK FOR THE TEMPERATURE GENERATED IN THE BRAKE SYSTEM
13	ENABLE TERMINAL (MOTOR MCT2A) ELECTRO MECHANICAL BRAKE (MOTOR MCT5A)	TERMINAL FOR CONNECTION OF MOTOR ENABLE SIGNAL (MOTOR MCT2A) TERMINAL FOR CONNECTION ELECTRO MECHANICAL BRAKE (MOTOR MCT5A)
14	MOTOR TERMINAL	MOTOR TERMINAL
15	OVERHEATING MOTOR SIGNAL	TERMINAL FOR CONNECTION OF OVERHEATING MOTOR SIGNAL (DEPENDING OF MOTOR MODEL)
16	POTENTIOMER OPERATING TIME	POTENTIOMETER IN CHARGE OF REGULATING THE OPERATING TIME OF THE SYSTEM
17	OPERATING POWER POTENTIOMETER	POTENTIOMETER IN CHARGE OF REGULATING THE OPERATING POWER OF THE SYSTEM
18	RS485 TERMINAL	CONNECTION TERMINAL FOR RS485 COMMUNICATION PROTOCOL
19	TERMINAL PROGRAMMING	TERMINAL FOR PROGRAMING CMT-20 ELECTRONIC BOARD
20	LEDS AND KEY TEST TERMINAL	TERMINAL FOR CONNECTING LEDES INDICATORS AND TEST KEY LOCATED IN THE PANEL DOOR
21	SAFETY FUSE	SAFETY FUSE FOR OVERCURRENT OR SHORT CIRCUIT
22	GENERAL PURPOSE INPUT	GENERAL INPUT CONTACT FOR GENERAL PURPOSE
23	220V ALARM TERMINAL	TERMINAL IN BOARD FOR ALARM MAIN POWER 220 V
24	BATTERY ALARM TERMINAL	TERMINAL IN BOARD FOR BATTERY ALARM STATUS
25	24Vdc INPUT TERMINAL	TERMINAL IN BOARD FOR 24 Vdc INPUT
26	FIRE ALARM TERMINAL	TERMINAL IN BOARD FOR FIRE ALARM