

# DATASHEET VARIOSPEED 6 EMERGENCY RETRACT UNIT – CONTROLS AT MOTOR (VS6-ERU-CAM)

**PRODUCT CODE:** 350023

**UNICLASS:** L4231

**EPIC:** D25

**VERSION:** Issue Q – 08/02/2024



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## PRODUCT DESCRIPTION

The Variospeed 6 ERU-CAM is used in conjunction with the Variospeed 6 Motor Control Unit (MCU/ER) and is used for Smoke / Fire Curtain(s) fitted with 24Vdc permanent magnet electrical motors fitted with an internal 24Vdc electromagnetic brake, as standard. When the Smoke / Fire curtain(s) are fully retracted, the internal electromagnetic brake is powered, keeping the Smoke / Fire curtain(s) in their retracted position. Power to the motor is completely isolated, prolonging the life of the motor and maintaining manufacturers supply warranty.

The motors include built in short circuit and open circuit protection, meaning the curtains will deploy under total controlled gravity failsafe at a descent rate compliant with BS EN 12101 and BS 8524 even if the motor wires are severed, i.e. shorted together or disconnected from the Motor Control Card (MCC).

## OPERATION

In the event of an alarm signal the Smoke / Fire curtain(s) will immediately deploy to their Fire Operational Position (FOP) under Gravity Failsafe.

If there is a mains power failure the Smoke / Fire curtain(s) will be held in the retracted position under Battery Backup (BBU) before being deployed to their Fire Operational Position (FOP). If an alarm signal is received during a mains power failure, the curtain(s) will deploy immediately to their Fire Operational Position (FOP). The curtain(s) will descend under Total & Controlled GFS (Total Gravity Failsafe).

The Emergency Retract Facility is available during an alarm condition, once the curtains have reached their FOP. The Emergency Retract Facility is also available during a mains failure once the curtain(s) have descended. This can take the form of an Emergency Retract Button or a Fireman's Override. The number of retract operations under mains power failure is limited to the battery power and affected by the size of the curtain(s), number of curtains and any optional extras powered by the ERU-CAM.

## SPECIFICATION

### Power Input:

220-240Vac 50/60Hz dedicated supply

### Power Rating (Maximum):

1000 Watts

### Power Consumption (Normal):

50 Watts

### Alarm Input:

Normally closed contact from fire alarm.  
Open on alarm activation.

### Outputs:

24Vdc to the Motor Control Unit (MCU/ER)

### Material:

Mild Steel

### Finish:

RAL 7035 (Light Grey)

### Dimensions (mm):

500(h) x 400(w) x 210(d)

### Weight:

18.9Kg

### IP Rating:

IP55

### Temperature Range:

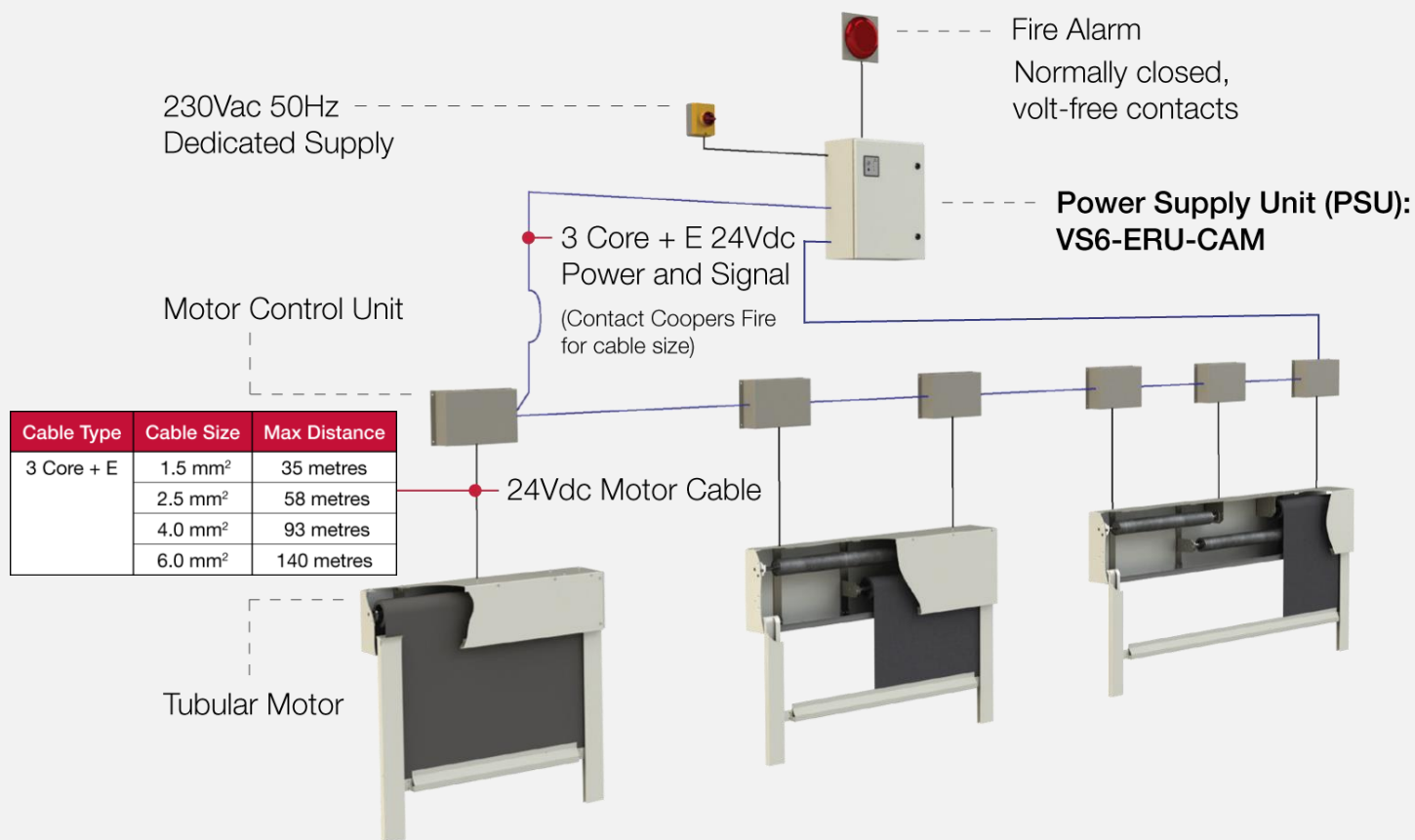
0°C to +50°C

### Location:

Internal

# VARIOSPEED 6 EMERGENCY RETRACT UNIT – CONTROLS AT MOTOR (VS6-ERU-CAM)

## VARIOSPEED 6 CONTROLS AT MOTOR (CAM) – TYPICAL WIRING LAYOUT

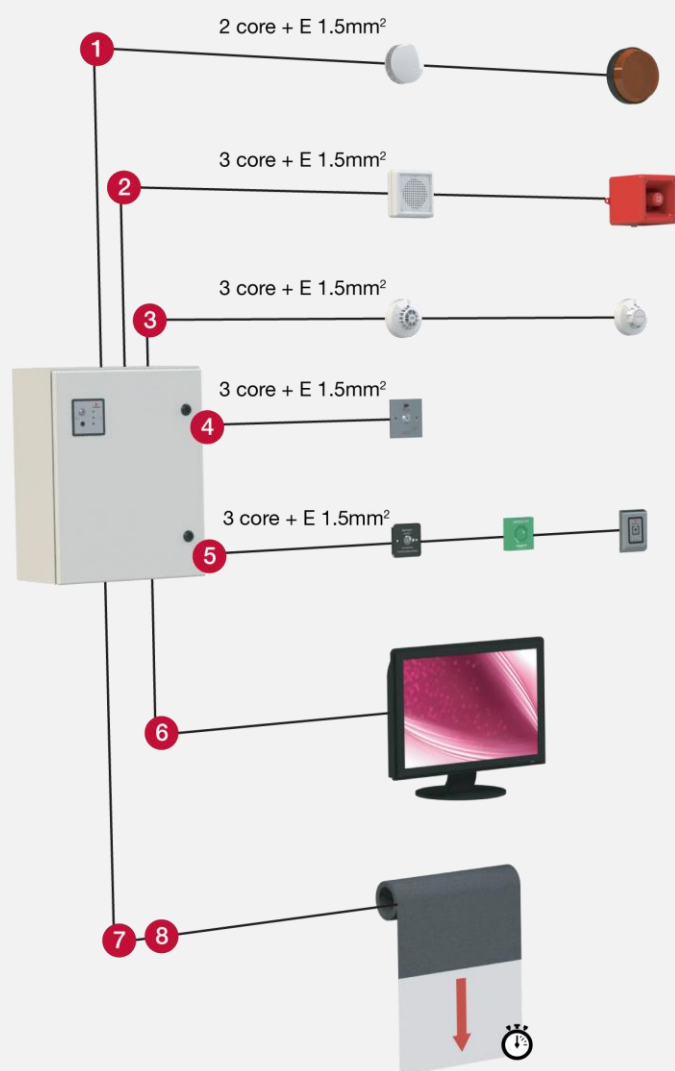


FIELD WIRING MINIMUM FP200 RATING

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## CONTROLS – OPTIONAL EXTRAS MATRIX

See the table below for use of optional extras available.



Optional Extras		Control Panel Type	
		ERU / MONO	BBU
1	Light Warning Unit	✓	✓
2	Voice Warning Unit	✓	✓
3	Heat Detector Smoke Detector	✓	✗
4	Test / Reset Switch	✓	✓
5	Emergency Retract Push Buttons	✓	✗
6	Building Management System (BMS) Interface (see next page for more information)	✓	✓
7	Adjustable Split Drop and Half Drop Enabled	✓	✗
8	Safety Edge / Bump Stop	✓	✗

**ERU** - Emergency Retract Unit

**MONO** – Control Panel for single curtain i.e. one roller

**BBU** – Battery Backup Unit

**Datasheet Optional Extras Reference**

Visit Coopers Fire website at [www.cooopersfire.com](http://www.cooopersfire.com)

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## BUILDING MANAGEMENT SYSTEM (BMS) OPTIONS

See the table below for guidance on the correct BMS components required for Coopers Fire Variospeed 6 controllers.

Control System Name	BMS Description	Component/ Stock Number	Note	BMS Outputs				
				Control Panel Fault (Mains power & alarm)	Curtain Up	Curtain Down	Curtain Fault	Battery low charge, battery fault, battery disconnected
Variospeed 6	Standard BMS	PZUE Kit CF000566	1 x PZUE PCB per BBU/ERU	✓	✗	✗	✗	✗
	Curtain Status BMS	BMS03 Kit CF000394	1 x BMS03 Kit per curtain	✗	✓	✓	✓	✗
	Battery Monitoring BMS	SLAM Kit CF000288	1 x SLAM PCB per BBU/ERU	✗	✗	✗	✗	✓
	Full BMS	PZUE Kit CF000566  BMS03 Kit CF000394  SLAM Kit CF000288	1 x PZUE PCB per BBU/ERU  1 x BMS03 Kit per curtain  1 x SLAM PCB per BBU/ERU	✓	✓	✓	✓	✓



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Coopers Fire Ltd has a policy of continuous product improvement. As such we reserve the right to change design and specifications without prior notice.

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