

Fuses in WBS xxM

The fuses in the unit WBS xxM have the following function and values:

WSA

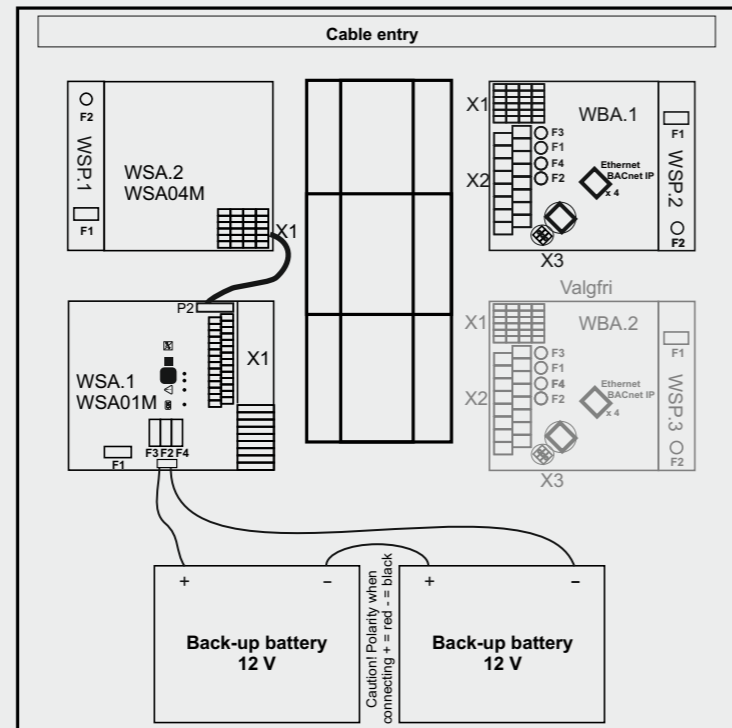
F1	Charge protection	3.0 AT (slow)
F2	Accumulator protection WSA.2	20 AT (slow)
F3	Accumulator protection WBA.1	20 AT (slow)
F4	Accumulator protection WBA.2	20 AT (slow)

WBA

F1	Motor line 1 protection	6.3 AT (slow)
F2	Motor line 2 protection	6.3 AT (slow)
F3	Motor line 3 protection	6.3 AT (slow)
F4	Motor line 4 protection	6.3 AT (slow)

WSP

F1	Mains supply protection (primary)	6.3 AT (slow)
F2	Power supply protection (secondary)	4.0 AT (slow)



Test of charging device (WSA.1)

Only qualified people should maintain and test the smoke ventilation unit. When operation, the unit must be checked at least once a year. The back-up batteries should be changed every fourth year. The voltage must be between 27.0 and 27.6 V when the back-up battery is connected.

Configuration of WBS xxM variants

	WBA.1	WBA.2	WBA.3	WBA.4	Back-up battery	Size (W x H x D)
WBS 16M 041A	WBA 11M	÷	÷	÷	2 x 24 Ah, 12 V	600 x 600 x 200 mm
WBS 16M 081B	WBA 11M	WBA 11M	÷	÷	2 x 24 Ah, 12 V	600 x 600 x 200 mm
WBS 32M 081B	WBA 11M	WBA 11M	÷	÷	2 x 24 Ah, 12 V	600 x 600 x 200 mm
WBS 32M 161K	WBA 11M	WBA 11M	WBA 11M	WBA 11M	2 x 24 Ah, 12 V	600 x 760 x 210 mm
WBS 48M 121J	WBA 11M	WBA 11M	WBA 11M	÷	2 x 33 Ah, 12 V	600 x 760 x 210 mm

WBS xxM smoke control panel

MotorLink™, BACnet

Installation instruction: Read installation instructions carefully before proceeding and keep for future reference. (Translated text), DK original text
Only qualified people should assemble, install, repair and maintain WindowMaster smoke control panels.

Installation - guidelines

- The regulations for electrical installations and the European Machinery Directive must be followed.
- When choosing cabling please observe the national guidelines
- The steel box must be installed on a load-bearing wall.
- The back-up batteries must be charged at least 8 hours before the unit is put into service.

Important!

- The current-carrying components are exposed when the steel box is opened. Mains and back-up batteries must be disconnected before components are mounted.
- During installation of the smoke ventilation unit, ensure that there is free access for service and maintenance.
- Cabling in the building must be made according to the diagram below.
- Check all the functions of the unit before putting it into service.
- When connecting the motors, the cable cross section and the maximum load of the smoke ventilation unit must be taken into account, max voltage drop 2V.
- The smoke ventilation card WSA has 2 separate lines:
 - Lini A: Terminal 1/2 for smoke ventilation switch
 - Lini B: Terminal 13/15 for automatic detector
- WindowMaster has inserted 10 kΩ resistors between these terminals. These must be removed when the smoke ventilation switch or the detectors are connected. When a line is not used the above mentioned resistor must be mounted on the terminal strip.
- Back-up batteries are to be ordered separately.

Cable diagram for automatic smoke ventilation unit

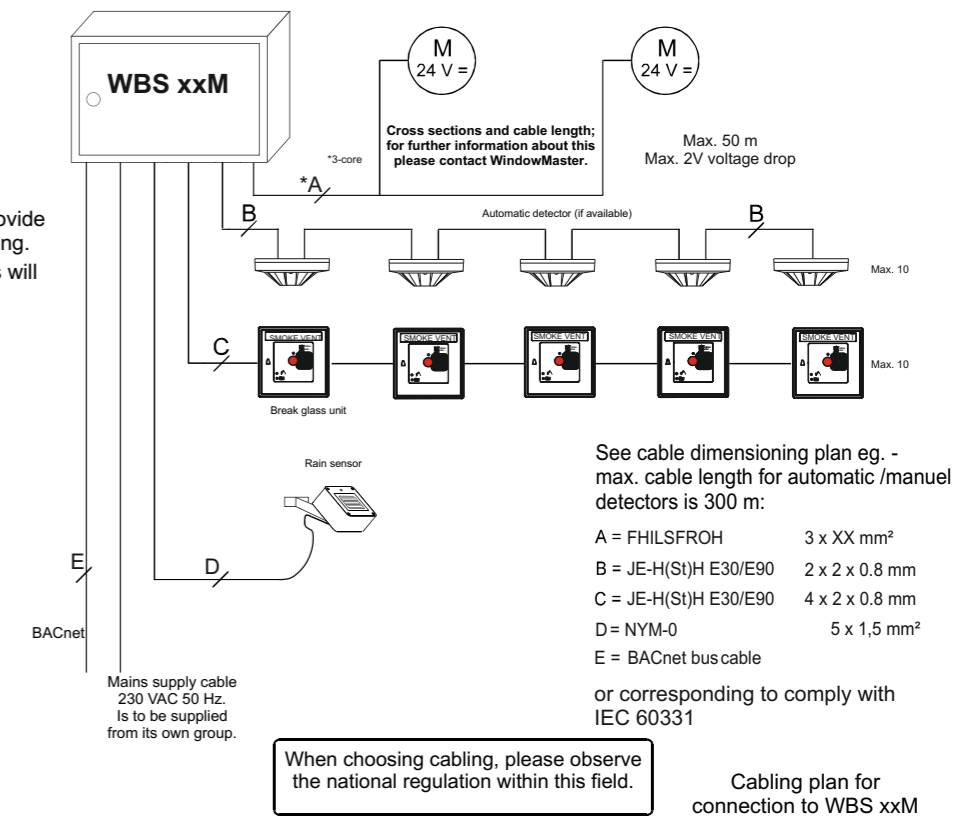
All cables must be fire resistant according to the national regulations and rules within this field, with the following exceptions:

- Cables which are earthed.
- Cables which are installed inside building construction without cavities and which provide a protection corresponding to a class 1 lining.
- Cables where breakages and short circuits will activate the smoke control panel.

All assembly materials for the cabling must provide the same performance according to the national guidelines within this field.

The cables must be dimensioned to a standard which ensures that loss of voltage in the cabling cannot cause operational problems for the unit.

Important! According to national regulation, EN 60204-1 and the directive of machinery, the yellow-green cable must not be used for anything else than earth (PE).



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Connection of WBS xxM smoke control panel

Principle diagram

