



USER'S MANUAL

SPEED CONTROLLER FOR FANS WITH EC MOTORS

ILMEC-010

USE

ILMEC-010 speed controller, the controller is used for smooth speed control of a fan equipped with an electronically commutated motor with 0-10 control input.

TECHNICAL DATA

DELIVERY SET

user's manual - 1 item fastening kit - 1 item packing box - 1 item

Power voltage: +48V DC (input +48V) or +10V DC (input +10V) Control voltage output: Uctr = 0-10V Allowable load: 2 motors with 0-10 V control voltage Overall dimensions: 78x78x63 mm Weight: 120 g Ingress protection rating on the front side: IP40 Ambient air temperature: +1 °C up to +35 °C at max. RH 80% at +25 °C.

Wall flush mounting modification



Wall surface mounting modification

Fig. 1. Speed controller design

SAFETY REQUIREMENTS

ILMEC-010 speed controller - 1 item

Disconnect the speed controller from power mains prior to all operations specific to connection, setup, maintenance and repair. The power mains connection must be performed by qualified personnel with valid permit for unassisted operations with electrical installations up to 1000 V after careful reading of the present operation manual.

MOUNTING

Cut off power supply to the speed controller prior to mounting and electrical connection. **The wiring diagrams are shown in fig. 2 and 3. Designations:** B - fan, R - R-1/010 speed controller

The minimum fan speed is set with the R3 potentiometer located on the speed controller circuit board, Fig. 4.



Fig. 2. Speed controller connection to 10V DC power supply



Fig. 4. Circuit board



Fig. 3. Speed controller connection to 48V DC power supply

OPERATION REQUIREMENTS

Warning:

Do not operate the speed controller with a damaged casing and connecting cables. Protect the speed controller casing against water ingress and water splashes. Do not install the speed controller in close proximity to heating appliances. Do not operate the speed controller in an explosive or aggressive environment.

STORAGE REQUIREMENTS

Store the speed controller in the original packing in a ventilated premise at ambient air temperatures from 0 °C to +40 °C and max. RH 80% at +25 °C.

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