MZ3-FA-V01
3-Level Switch

Function

- Electronic 3-level switch with touch panel
- Manual operation with up to 3 Levels: MIN, MID, MAX
- Automatic reset of the level MAX to specified level (per default no reset)
- One 0…10 VDC output to output defined voltage levels
- Password protected settings
- Copy of settings with accessory (AEC-PM2)



Applications

Comfort ventilation, for example for very well insulated living rooms which must be ventilated according to regulations or for controlling dampers, valve drives, blinds or windows, etc.

General description

The MZ3-FA-V01 is a microprocessor-controlled precision level switch with touch panel. Through parameters the level switch may be configured. Settings such as switching levels for each step may be adjusted. The level switch is configuration with a programming device called OPA-S. Configuration can as well be updated using a remote memory device called AEC-PM2.

Types and ordering

Product name	Product No.	Description	Features
MZ3-FA-V01-B3-T3-W	40-100291	- Blue LED - White frame - Lettering: MIN, MID, MAX	Compact positioner/controller in a frame, with one 0-10 VDC output. Operation as 3-level switch with touch panel.
MZ3-FA-V01-G3-T3-W	on request	- Green LED - White frame - Lettering: MIN, MID, MAX	
Accessories			
OPA-S	40-500006	Programming and display device	LCD display for surface mounting or handheld operation.
AEC-PM2	40-500130	Memory-Device. Used for copying settings	Stores settings of MZ3

Interface to the ventilation system

The 3-level switch works with all systems that are designed for a 0…10 VDC or 2…10 VDC input signal.

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Technical Data

Caution! This device is intended to be used for comfort applications. Where a device failure endangers human life and/or property, it is the responsibility of the owner, designer and installer to add additional safety devices to prevent or detect a system failure caused by such a device failure. Vector Controls or its affiliates cannot be held liable for any damage caused by such a failure. Failure to follow specifications and local regulations may endanger life, cause equipment damage and void warranty.

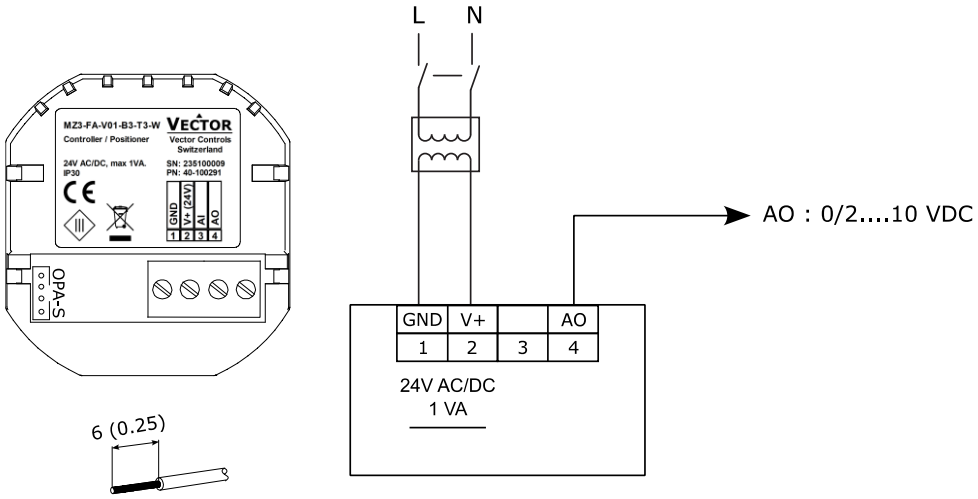
Power supply	Operating voltage	24 V AC/DC ± 10%, 50/60 Hz, Class 2 48 VA max.
	Power consumption	Max. 1 VA
	Electrical connection	Terminal connectors, wire 0,34-2,5 mm2 (AWG 22…13)
Signal output	Analog output Output signal Maximum load	 DC 0…10 V 2 mA or 5 kΩ
Environment	Operation Climatic conditions Temperature Humidity	To IEC 721-3-3 class 3K5 0…50 ° C (32…122 ° F) < 95% RH non-condensing
	Transport & storage Climatic conditions Temperature Humidity Mechanical conditions	To IEC 721-3-2 and IEC 721-3-1 class 3K3 and class 1K3 -25…70 °C (-13…158 °F) < 95% RH non-condensing class 2MT2
Standards	Degree of protection	Wall mounted: IP40 acc. EN 60529 Not installed: IP00 acc. EN 60529
	Safety class	III (IEC 60536)
General	Housing material:	Flame retardant PC+ABS plastic (UL94 class V-0)
	Dimensions (H x W x D) including packaging	120 x 120 x 40 mm (4,7” x 4,7” x 1,6”)
	Weight (incl. packaging)	140 g (5.0 oz)

Product testing and certification

CE Declaration of Conformity

Information on the conformity of our products can be found on our website www.vectorcontrols.com on the corresponding product page under "Downloads".

Connection diagram

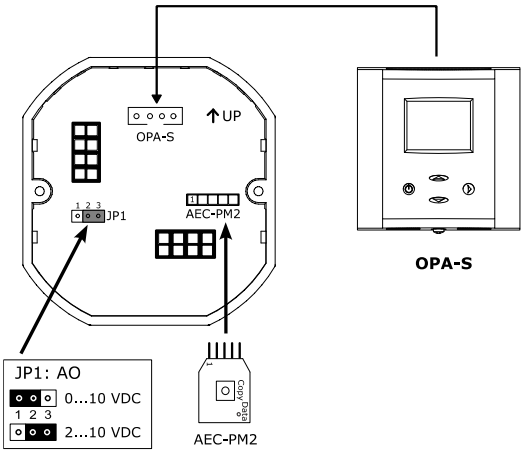


Description:

1	**GND**	Power supply:	0 V, -24 VDC, internally connected to signal common
2	**V+**	Power supply:	24 VAC, +24 VDC
3		Not used, do not connect	
4	**AO**	Analog output ventilation:	0/2…10 VDC

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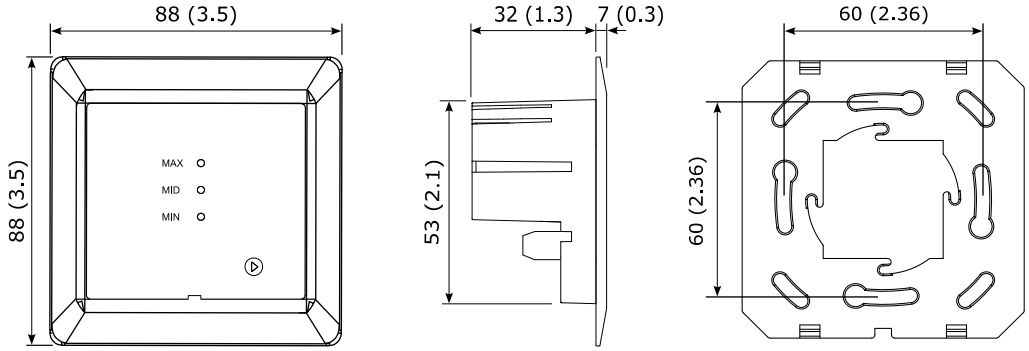
View of rear part, without front panel



NOTE: For parameter programming, the OPA-S programming and display unit must be plugged in at the connector under the front panel or on the back of the MZ3.

Dimensions mm (in)

The MZ3-FA-V01 is so designed that it can be incorporated into a commercially available flush box.



Mounting and installation

Mount the controller on an easily accessible interior wall in a standard flush box.
Mount and connect the controller as shown in the MZ3-FA-V01 installation manual no. 70-000837 supplied with the device, and wire it according to the connection diagram above.

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Display and operation

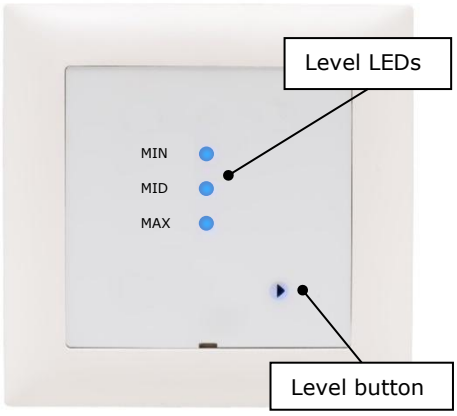
Manual operation

The following operation modes will be activated through repeated pressing of the level button:

- Level 0 = MIN = Minimum
- Level 1 = MID = Medium
- Level 2 = MAX = Maximum

The active level is activated after 3 seconds. This prevents unnecessary switching when setting the device. The level-indication and buttons light up in blue.

The device is equipped with proximity detection. When approaching a distance of approx. 10 cm, the luminosity of the LED increases. After 30 seconds without interaction, the LEDs dim down again and thus save energy.



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