Installation Instructions for Universal Control Type 5/UNI

Order No.: 039 975

- Please pass on to User -

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors

Functions:

- Manual control via series switch (3-phase)
- Can be controlled via the control signal of the TAC
- Fan type and functions of connected devices can be adjusted via coding switch (refer to Table Page 4)

Technical Data:

Input voltage:	12 V DC
Operating switching current:	max. 5 A
Power input:	max. 60 W

Power supplies (recommended):
Meanwell DR60-12 or equivalent power supply with SELV Class III.

When using a power supply 18 W you can connect maximum 2 e^{go} or 6 e^2 (3 pairs) or a RA 15-60 to a universal control.
When using a power supply 60 W eg. 5/NT 60 you can connect maximum 5 e^{go} or 10 e^2 (5 pairs) or 2 RA 15-60 to a universal control.
(Power supplies, refer to „Spare/ Replacement parts“ p.5)

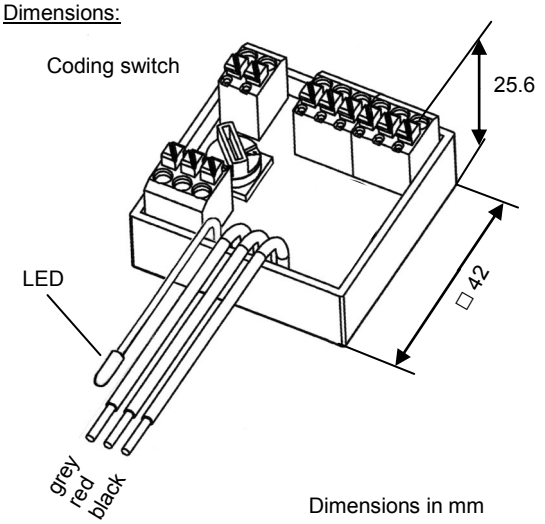
WARNING – To reduce the risk of fire, electric shock or injury to persons, observe the following:

a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
b) Before servicing or cleaning the unit, switch power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidently. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

Installation

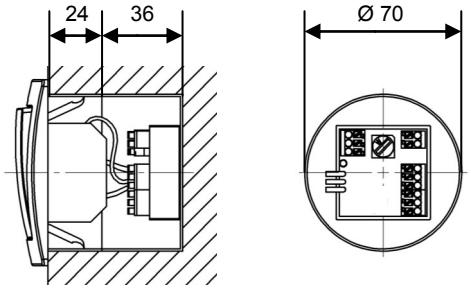
You can install the universal control in a standard distribution box or a standard switch box (66 mm deep), as shown in the illustration.

Dimensions:

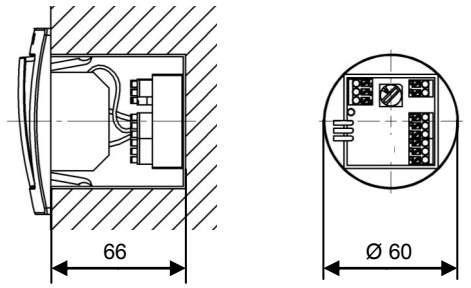


Dimensions in mm

Installation in distribution box



Installation in switch box



Electrical Connection

Safety Instructions

Caution! All assembly and installation work must be executed (power connection and adjustment of miniature switch) when the power supply has been isolated!

De-energize the connection lines before connecting the fan unit to the power supply! (separation from supply with at least 3 mm contact opening, e.g. electrical fuse).

Each circuit which is part of the fan must be equipped with residual current protection (e.g. RCCB)!

Electrical connections must be executed by a professional electrician!

CAUTION: Automatically operated device - to reduce the risk of injury, disconnect the power supply before servicing.

Warning: Disconnect the appliance from the power supply before servicing.

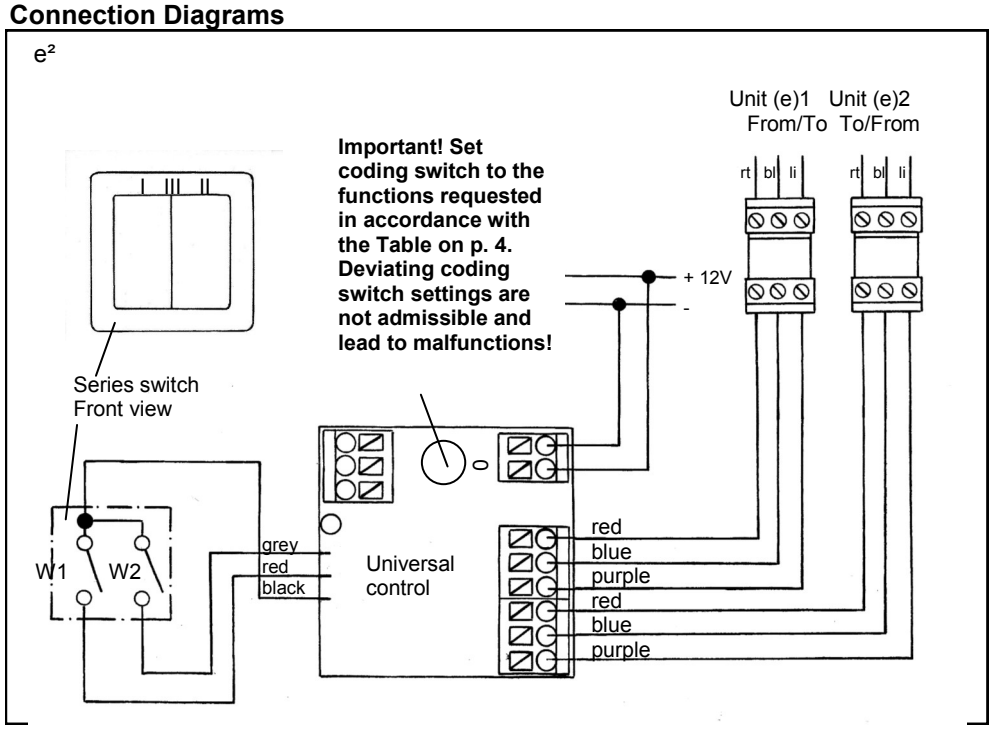
The product's installation shall not conflict with any requirement in the National Electrical Code, ANSI/NFPA 70-1999.

Additional installations and electrical components in the fan unit are not admissible! Further connection diagrams for other fan functions are available on request!

Use the following cables for electrical connection:

- Cable to fan units: max. AWG 20
- Cable to connect Convenience Control TAC: max. AWG 20
- Cable for supply voltage max. AWG 16

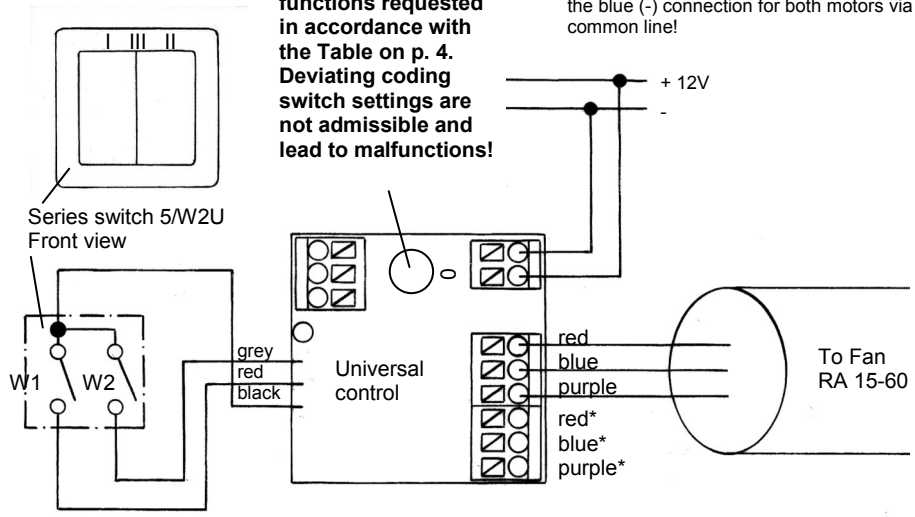
Connection Diagrams



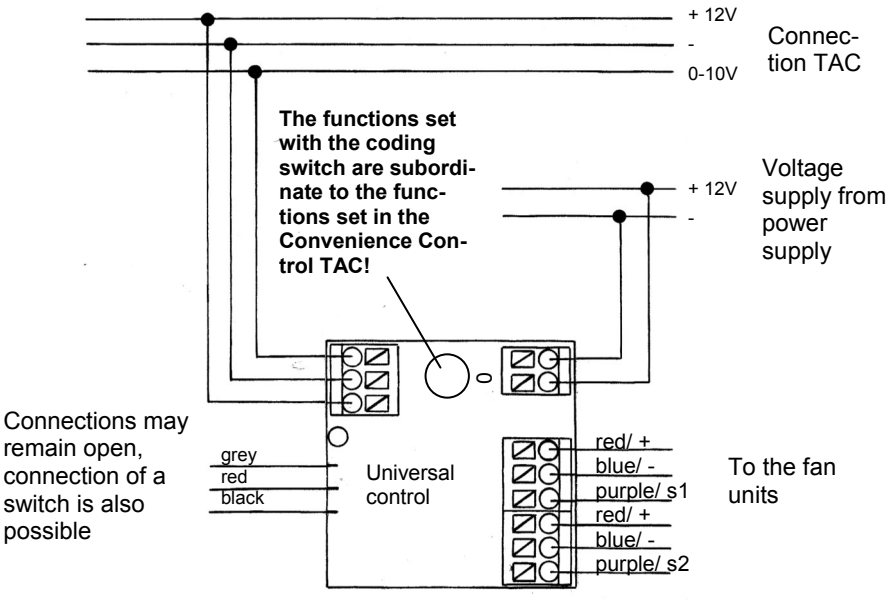
RA 15-60

Important! Set coding switch to the functions requested in accordance with the Table on p. 4. Deviating coding switch settings are not admissible and lead to malfunctions!

* Connection potential for another RA 15-60. When connecting two RA 15-60, ensure star-shaped distribution. Do not use the blue (-) connection for both motors via a common line!



Convenience Control TAC



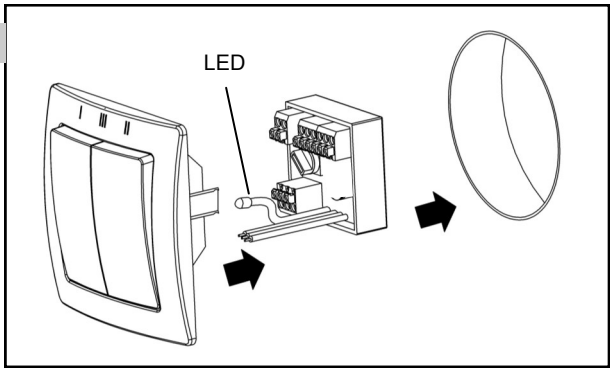
Coding Switch Settings –Programs and Flow Rates

Coding Switch Setting	Fan type	Functional Description	Programs and Air Flow Rates				Rockers W 2
			Rocker 1 OFF	Rocker 1 ON	Rocker 1 OFF	Rocker 1 ON	
			Rocker 2 OFF	Rocker 2 OFF	Rocker 2 ON	Rocker 2 ON	
0	RA 15-60	OFF, three-phase	OFF	15 m³/h	30 m³/h	45 m³/h	60 m³/h
1	RA 15-60	OFF, three-phase	OFF	15 m³/h	30 m³/h	60 m³/h	
2	RA 15-60	four-phase	15 m³/h	30 m³/h	45 m³/h	60 m³/h	
3	e²	OFF, three-phase	OFF	15 m³/h	30 m³/h	38 m³/h	Summer ventilation
4	e²	four-phase	15 m³/h	20 m³/h	30 m³/h	38 m³/h	Summer ventilation
5	e² short	OFF, three-phase	OFF	15 m³/h	30 m³/h	38 m³/h	Summer ventilation
6	e² USA	OFF, three-phase	OFF	10 cfm	15 cfm	20 cfm	Summer ventilation
7	e² USA short	OFF, three-phase	OFF	10 cfm	15 cfm	20 cfm	Summer ventilation
8	e² mini	OFF, three-phase	OFF	5 m³/h	10 m³/h	20 m³/h	Summer ventilation
9	e^{go}	OFF, three-phase	OFF	5m³/h	10 m³/h	20 m³/h	Summer ventilation
A	e^{go}	four-phase	5 m³/h	10 m³/h	15 m³/h	20 m³/h	Summer ventilation
B	e^{go}	three-phase and exhaust air	5 m³/h	10 m³/h	20 m³/h	45 m³/h (exhaust air)	Summer ventilation
C	e^{go}	OFF, two-stage and exhaust air	OFF	5 m³/h	10 m³/h	45 m³/h (exhaust airt)	Summer ventilation
D							
E							
F							

On actuating the rocker switch W1 once, the filter change display is reset within 3 s in all program options.

Installing the LED in the Switch

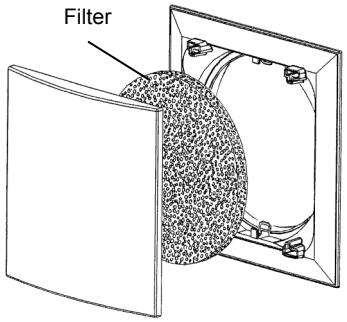
Attention! The LED faces upwards and is inserted in the circular opening on the underpart of the switch provided by LUNOS!
Please check the existence of an opening for the LED when using other commercial series switches!



Filter Change

The LED of the control switch indicates a dirty filter.
E.g. Remove interior screen, remove filter, insert new or cleaned filter (the filter can be cleaned e.g. with dishwasher), replace the interior screen.
The fan openings must not be obstructed or covered.

Example: Filter change e²



Please write down the filter changes you have made here:

Filter change date	planned filter change	Filter type used

Additional/replacement parts

Power supply 5/NT 18 — Order No.: 039 973
Power supply 5/NT 60 — Order No.: 039 974

Notes

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