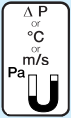


Task	Helios controller solution	Page
 Manual control of air flow volume	■ Manual speed controller – Without motor protection – 10 V, 24 V DC – Potentiometer for EC fans – 230 V~ – Electronic, flush / surface mounted – 230 V~ – Transformer, surface mounted – 400 V 3~ – Transformer, surface mounted – 230 V~ – Transformer, electronic, surface mounted – With built-in motor full protection for connection to thermal contacts – 230 V~ / 400 V 3~ – Transformer, surface mounted – 400 V 3~ – Electronic, surface mounted – 400 V 3~ – Frequency inverter	PU / PA, SU / SA 541 ES, BSX 531 TSW, TSSW 532 TSD, TSSD 533 ETW 535 MWS / RDS 532 f. ESD 535 FU 536 f.
	■ Operation switch for fans with 2 speeds – Pole switch for Dahlander windings, flush / surface mounted – Pole switch for separated windings, flush / surface mounted	PDA / PDU 529 PGWA / PGWU 529
	■ Overrun switch Thermal electric, electronic, mechanic with adjustable and fixed times	ZT, ZNE, ZNI, ZV 527
	■ Air quality sensor with on / off function depending on room air quality	ACL 543
	■ Air flow monitor for monitoring the minimum air flow velocity in ducts and pipes	SWE, SWT 543
	■ Ventilation thermostat – one step with on / off function – four step, mechanical – stepless, electronic	TME 1 542 TME 4 534 EST 534
	■ Temperature controllers with integrated power unit, surface mounted – 230 V~ – electronic – 230 V~ / 400 V 3~ – transformer	EUR 6 C 538 KTRW / KTRD 534
	■ Differential temperature controller electronic, stepless, with power unit – 230 V~ for surface mounting	EDTW 543
	■ Humidistat with on / off function, surface mounted	HY 3 542
	■ Fans for sanitary areas with integrated humidity control	M1/.. F, ELS-VF 22, 53
 Temperature, pressure, speed Pressure dependant control	■ Universal controller with power unit 230 V~ with 0–10 V DC output, for EC fans with power unit 400 V~	EUR 6 C 538 EUR EC 539 FU 536 f.
	■ Differential pressure controllers, surface mounted, with digital display – 0–10 V DC – electronic	EDR 540
	■ Differential pressure switch for monitoring the air filters, system pressure and fan operation	DDS 542
	■ Motor full protection switch to connect the thermal contacts for monitoring the windings temperature	MD, MW M 2, M 3, M 4 530
 Motor protection against overload	■ Motor protection tripping unit for PTC – temperature sensor in windings	MSA 530
	■ Reverse switch to change air flow direction of axial fans	WS 528
	■ Isolation switch to disconnect all phases for service works	RS, RHS 528 f.
 Operation switch	■ Pole / reverse switch as before, but for 2 speed axial fans	PWGW, PWDA 529
	■ Weekly autotimer for automatic operation control	WSUP, WSUP-S 527
 Timer		



■ Flush mounted overrun timer for installation in gang boxes behind a switch

Specially designed overrun timer for bathroom and toilet. The compact design allows installation behind a switch within a single gang box. Operation via on/off switch or ideally to be combined with a light switch in rooms without a window. Can be individually adjusted through different timer variations.

Interference immunity and emission
ZT is designed with a thermal electric circuit, is immune against tolerable peak voltages and interference-free. The interference immunity and emission of ZNE/ZNI comply with the latest EN guidelines. ZV is tested as follows: Interference emission to DIN EN 55014 / VDE 0875-14-1; DIN EN 50370 / VDE 0875-1; DIN EN 61000-3-3 / VDE 0838-3.

■ Overrun timer for mounting in terminal box

■ Weekly autotimer Surface mounted or in flush mounted box

Control cabinet installation

Type ZT Ref. no. 1277
Thermal electric overrun timer with adjustable run on time, depending on duty cycle. Optional delayed start via different wiring options. In parallel wiring with light switch the fan can be temporarily switched off via a series switch.

Type ZNE Ref. no. 0342
Electronic overrun timer with stepless adjustable run on times Operation via on/off switch, e.g. in combination with light switch. Compact design allows easy installation.

Type ZNI Ref. no. 0343
Electronic interval switch with adjustable interval and run on times Starts operation automatically at adjustable time intervals, if no manual switching has taken place. If switched manually, e.g. light switch, the preset overrun time applies.

Type ZV Ref. no. 1279
Electronic overrun timer with stepless adjustable run on times and operation switch with run on time/continuous operation options. Parallel wiring to a light switch and fan is possible via an on/off switch or push button.

Type WSUP Ref. no. 9990
Weekly autotimer Digital autotimer with LCD display to automatically control any unit in accordance with the technical data. Suitable for switching the least electronic current from 1 mA / 20 mV through a standard, gilded μ -contact. Installation in dry environment.

Type WSUP-S Ref. no. 9577
Weekly autotimer for control cabinet installation Digital autotimer with LCD display to automatically control any unit in accordance with the technical data. Suitable for switching low-voltage or low currents through a standard, gilded μ -contact. Installation in dry environment or with occasional condensation.

Variable run on time, depending on duty cycle.
Min. approx. 2 min.; max. approx. 12 min.
Optional delayed start (approx. 45 sec.)
Voltage 230 V, 1~, 50/60 Hz
Current 4 A (ind.)
Protection class IP 20
Dimensions mm W 32 x H 40 x D 14
Installation flush mount box behind switch
Wiring diagram no. SS-174
— when two rooms/switches are to be controlled SS-174.3

Stepless adjustable run on time 0–21 min.
Optional delayed start 45 sec.
Voltage 230 V, 1~, 50/60 Hz
Current min. 0,05 A max. 0,8 A (ind.)
Protection class IP 40
Dimensions mm W 17 x H 37 x D 13
Installation flush mount box behind switch
Wiring diagram no. SS-477.1
— when two rooms/switches are to be controlled SS-174.3

Adjustable interval time 0, 4, 8, 12, 24 hr.
Run on time if manually switched, stepless adjustable 0–21 min.
Optional delayed start 45 sec.
Voltage 230 V, 1~, 50/60 Hz
Current min. 0,05 A max. 0,8 A (ind.)
Protection class IP 40
Dimensions mm W 17 x H 37 x D 13
Installation flush mount box behind switch
Wiring diagram no. SS-477.1
— when two rooms/switches are to be controlled SS-174.3

Stepless adjustable run on time 4 – 15 min.
Voltage 230 V, 1~, 50/60 Hz
Current 2,1 A (ind.)
Protection class IP 20
Dimensions mm W 18 x H 93 x D 67
Installation terminal box, 35 mm sectional rail
Wiring diagram no. SS-236.1

Voltage 230 V, 1~, 50 Hz
Current 1 mA / 20 mV DC
Switching contact potential-free changeover 250 V, 1~, 8 A $\cos \phi \approx 1$, μ -contact
Protection class IP 20 / II
Dimensions mm W 85 x H 85 x D 52
Installation surf. casing, flush box
Temperature range -10° C to +35° C
Memory space (switching time) 42
Wiring diagram no. SS-862

Voltage 230 V, 1~, 50-60 Hz
Current 1 mA / 20 mV DC
Switching contact potential-free changeover 250 V, 1~, 16 A $\cos \phi \approx 1$
2 A $\cos \phi \approx 0,6$, μ -contact
Protection class IP 20 / II
Dimensions mm W 36 x H 90 x D 69
Installation DIN rail mounting control cabinet
Temperature range -30° C to +55° C
Memory space (switching time) 56
Wiring diagram no. SS-1038

