RESOL®
CONTROL TECHNOLOGY

DeltaSol® SLL

The RESOL *DeltaSol®* SLL is the smallest controller of the SL series. Its equipment is optimised for small and medium-sized solar thermal and heating systems, 10 pre-configured basic systems are available. The *DeltaSol®* SLL is also the first controller of its category to offer the automatic function control according to the VDI 2169 directive.

Additionally, it is equipped with a potential-free extra-low voltage relay for backup heating demand and a V40 flowmeter input for heat quantity measurement.

rosenthal design **r**

HE pump control   **VBus.net**   **RPT Parameterisation tool**

Versatile and easy to operate!

- Microbuttons for quick access to the manual mode and the holiday function
- 3 relay outputs (incl. 1 potential-free extra-low voltage relay)
- 4 inputs for Pt1000, Pt500 or KTY temperature sensors
- 1 V40 impulse input
- 2 PWM outputs for the speed control of high-efficiency pumps
- 10 basic system layouts to choose from
- Automatic function control according to VDI 2169

RESOL DeltaSol® SLL
Price bracket A | Article no.: **115 431 53**

RESOL DeltaSol® SLL – Full kit
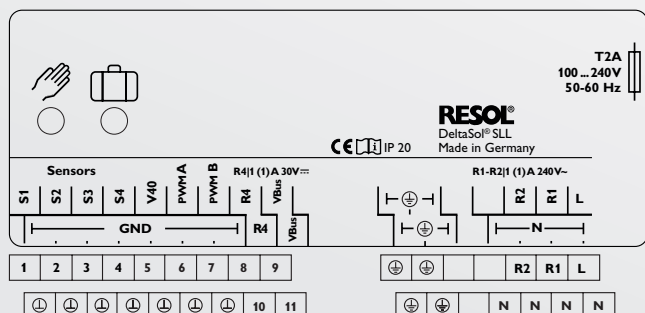Incl. 3 Pt1000 sensors (1 × FKP6, 2 × FRP6)
Price bracket A | Article no.: **115 431 63**

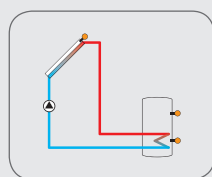Customised and OEM versions are available on request. Please contact our sales team.
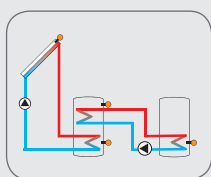
Manuals available:

ELECTRICAL CONNECTION


```
                                    T2A
                                    100 ... 240V
                                    50-60 Hz

                          RESOL®
                          DeltaSol® SLL
                          Made in Germany
        CE i IP 20

Sensors        V40  PWM A  PWM B  R4|1 (1) A 30V⎓        R1-R2|1 (1) A 240V~
S1  S2  S3  S4                    R4   VBus              R2   R1   L
            GND              R4   VBus                   N
1   2   3   4   5   6   7    8    9                      R2   R1   L
                                 10   11                 N   N   N   N
```
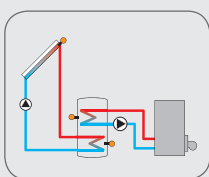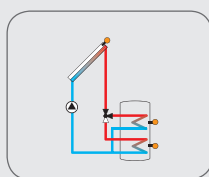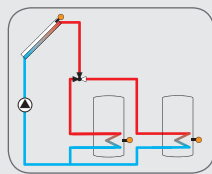
EXAMPLES

Solar system with 1 store

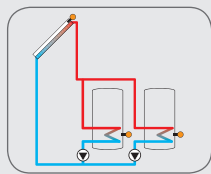Solar system with 1 store and heat exchange control

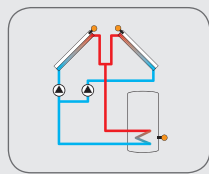Solar system with 1 store and thermostatic backup heating
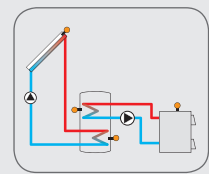

Solar system with store loading in layers

Solar system with 2 stores, valve logic

Solar system with 2 stores, pump logic

Solar system with east-/west collectors and 1 store

Solar system with 1 store and solid fuel boiler

ACCESSORIES

RESOL KM2 Communication module

Incl. RESOL service CD, network cable and mains adapter, VBus® cable pre-connected

Price bracket A | Article no.: **180 012 10**

RESOL V40

V40 flowmeter in different versions

RESOL SP10

Sensor overvoltage protection

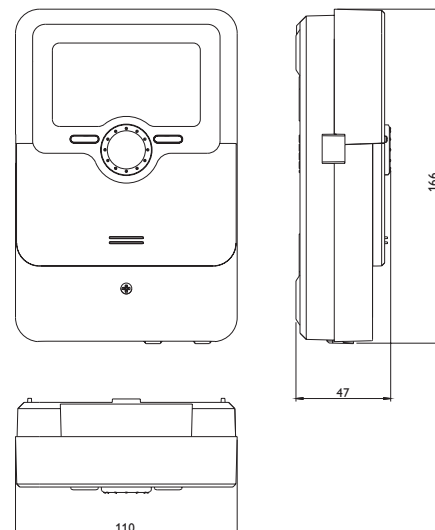Price bracket A | Article no.:
180 110 70

RESOL AM1

Alarm module for signalling system failures

Price bracket B | Article no.:
180 008 70

TECHNICAL DATA

166
47
110

Inputs: 4 inputs for Pt1000, Pt500 or KTY temperature sensors, 1 V40 impulse input

Outputs: 2 semiconductor relays, 1 potential-free extra-low voltage relay, 2 PWM outputs

PWM frequency: 1000 Hz

PWM voltage: 10.5 V

Switching capacity:
1 (1) A 240 V~ (semiconductor relay)
1 (1) A 30 V⎓ (potential-free relay)

Total switching capacity: 2 A 240 V~

Power supply: 100 ... 240 V~ (50 ... 60 Hz)

Supply connection: type Y attachment

Standby: 0.66 W

Temperature controls class: I

Energy efficiency contribution: 1 %

Mode of operation: type 1.B.C.Y action

Rated impulse voltage: 2.5 kV

Data interface: RESOL VBus®

VBus® current supply: 60 mA

Functions: operating hours counter, tube collector function, thermostat function, pump speed control, heat quantity measurement, adjustable system parameters and optional functions (menu-driven), balance and diagnostics function, function control according to VDI 2169

Housing: plastic, PC-ABS and PMMA

Mounting: wall mounting, mounting into patch panels is possible

Indication / Display: System-Monitoring-Display for system visualisation, 16-segment-display, 8 symbols for indication of the system status, operating control LED (Lightwheel®)

Operation:
4 push buttons and 1 adjustment dial (Lightwheel®)

Ingress protection: IP 20 / EN 60529

Protection class: I

Ambient temperature: 0 ... 40 °C

Pollution degree: 2

Dimensions: 110 x 166 x 47 mm